

*marcelo
roan*

INSTRUCTION MANUAL AND SPARE PARTS

FOR

MODEL 341N

CONTENTS

BEFORE OPERATION	1
SPECIFICATIONS	1
1. SETTING UP THE SEWING MACHINE	2
2. LUBRICATION	2
3. INSTALLING THE THREAD STAND	3
4. INSTALLING THE BELT COVER AND THE BOBBIN WINDER	3
5. ATTACHING THE NEEDLE	3
6. ATTACHING/REMOVING THE BOBBIN CASE	3
7. WINDING A BOBBIN	4
8. PLACING A BOBBIN IN THE BOBBIN CASE	4
9. THREADING THE MACHINE HEAD	4
10. ADJUSTING THE STITCH LENGTH	5
11. THREAD TENSION	5
12. THREAD TAKE-UP SPRING	5
13. ADJUSTING THE PRESSURE OF THE PRESSER FOOT	6
14. ADJUSTING THE PRESSER FOOT AND THE WALKING FOOT	6
15. HEIGHT OF THE FEED DOG	7
16. NEEDLE-TO-HOOK RELATIONSHIP	7
17. ADJUSTING THE NEEDLE GUARD OF THE HOOK	8
18. ADJUSTING THE BOBBIN CASE OPENING LEVER	8
19. ADJUSTING THE LONGITUDINAL POSITION OF THE NEEDLE BAR FRAME	8
20. SAFETY MECHANISM	9
21. REPLACING THE TIMING BELT	9
22. MOTOR PULLEY AND V-BELT	10
23. TROUBLE IN SEWING AND CORRECTIVE MEASURES	10

BEFORE OPERATION



CAUTION

Check the following so as to prevent maloperation of and damage to the machine.

- Before you put the machine into operation for the first time after the set-up, clean it thoroughly. Remove all dust gathering during transportation and oil it well.
- Confirm that voltage has been correctly set. Confirm that the power plug has been properly connected to the power supply.
- Never use the machine in the state where the voltage type is different from the designated one.
- The direction of normal rotation of the machine is counterclockwise as observed from the pulley side. Take care not to allow the machine to rotate in the reverse direction.
- When tilting the machine head, tilt it after removing the knee lifter hook.
- For a test run, remove the bobbin case and the needle thread.
- For the first month, run the machine at a speed of 1,800 s.p.m. or less.
- Operate the handwheel after the machine has totally stopped.

SPECIFICATIONS

Type of sewing machine head	Cylinder-bed, 1-needle, unison-feed lockstitch machine (with a vertical-axis hook)
Application	Medium- to heavy-weight materials
Sewing speed	Max. 2,000 s.p.m
Stitch length	Max. 6 mm
Lift of presser foot	By hand lifter: 8.5 mm, By knee lifter: 15 mm
Thread take-up lever	Slide type thread take-up
Needle bar stroke	33.36 mm
Needle	DP × 17
Count of needle to be used	#14 through #24 (standard: #23)
Count of thread to be used	#50 through #8
Stitch adjusting method	By dial
Lubrication method	By an oiler
Motor to be used	400 W clutch motor (4P)
Lubricating oil	New Defrix Oil No. 1

Noise

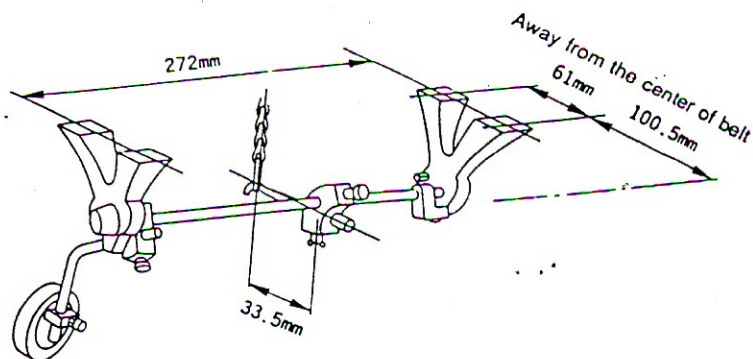
Workplace-related noise at sewing speed

$n = 1,550 \text{ min}^{-1}$: L_{PA} 84 dB(A)

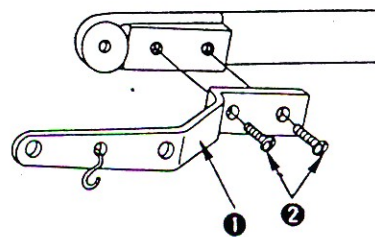
Noise measurement according to DIN 45635-48-A-1.

1. SETTING UP THE SEWING MACHINE

Mounting the knee lifter



(Caution) The knee lifter should be mounted before the motor is installed.



When using the knee lifting pedal, attach knee lifter bracket A ① in place using screws ② as illustrated in the figure.

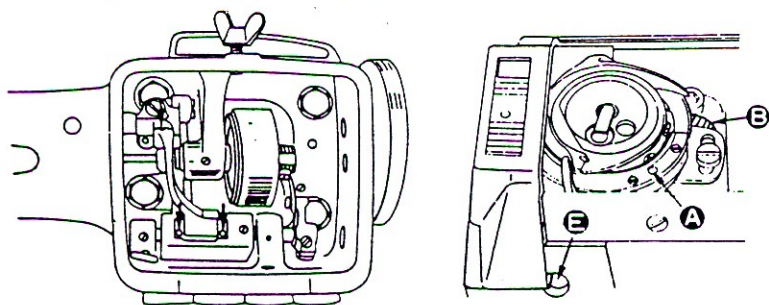
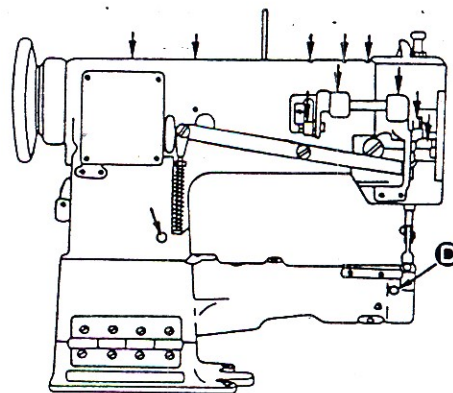
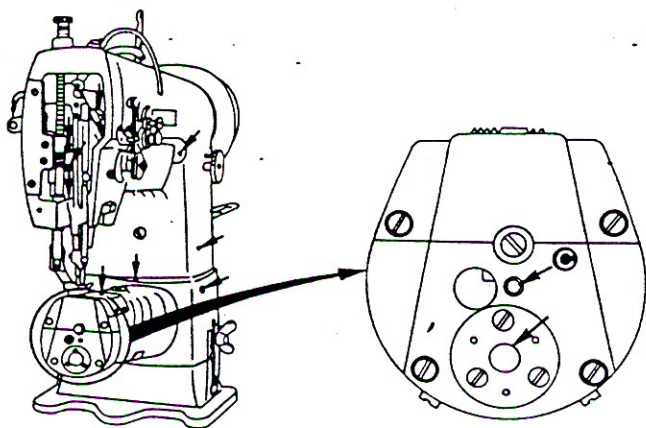
(Caution) Knee lifter bracket ① and screws ② are supplied with the machine in the accessory box.

2. LUBRICATION



WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



★ Before starting the sewing machine

Prior to operation, apply adequate amount of oil to the points marked with the arrows.

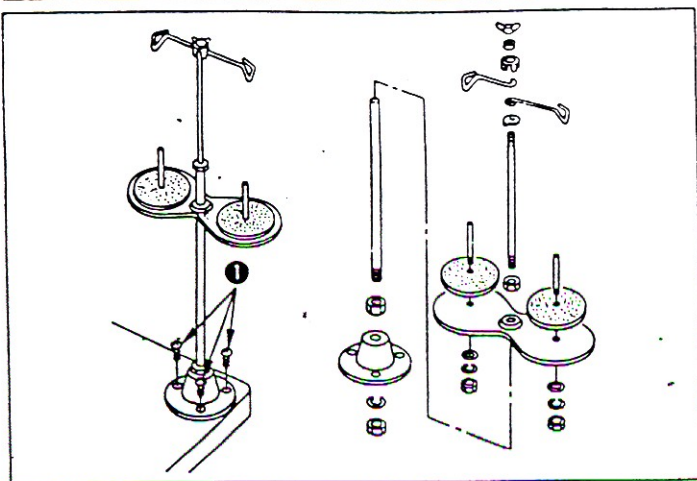
★ Lubricating the hook and hook shaft saddle

Shift the slide plate, and apply two or three drops of oil every day to the hole shown with the arrow A. And four or five drops of oil every day to the felt shown with the arrow E.

★ Lubricating the feed bar

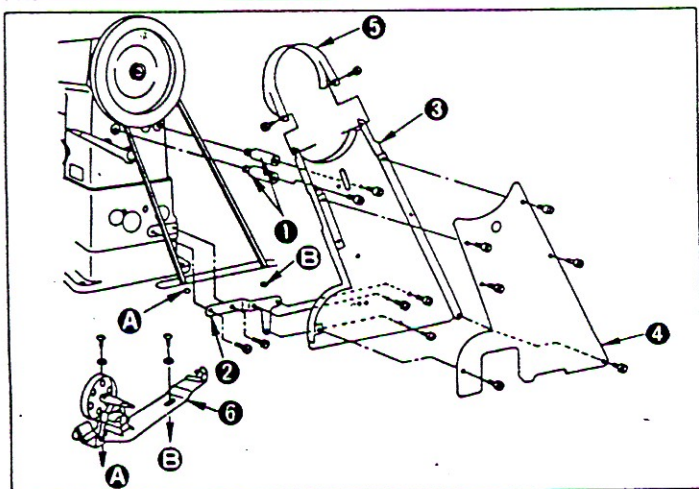
Prior to operation, apply two or three drops of oil to the holes shown with the arrows C, D and E without fail.

3. INSTALLING THE THREAD STAND



Assemble the thread stand, and install it on the far right-hand side edge of the table using three screws ❶

4. INSTALLING THE BELT COVER AND THE BOBBIN WINDER

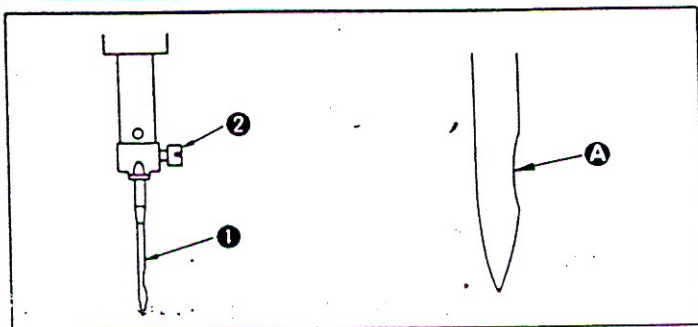


WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

- 1) Drill guide holes ❶ and ❷ for wooden screws to be used in the table.
- 2) Insert belt cover support ❶ into the tapped hole in the machine arm.
- 3) Install belt cover support plate ❷ on the machine head.
- 4) Attach belt cover ❸ to support ❶ and support plate ❷.
- 5) Fit bobbin winder ❹ in belt cover ❸, and adjust the position of the bobbin winder properly.
- 6) Fix bobbin winder ❹ on the table.
- 7) Put the V belt on the handwheel. Attach rid ❸ of the belt cover and top cover ❹ in place.

5. ATTACHING THE NEEDLE



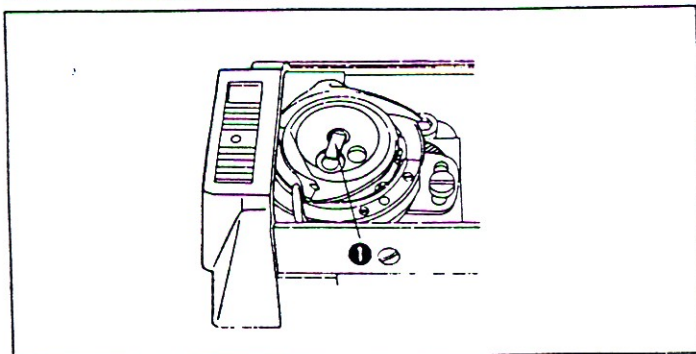
WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

- Turn OFF the power to the motor.

- 1) Turn the handwheel to move the needle bar up to its highest position.
- 2) Loosen needle clamp screw ❷. Hold needle ❶ so that its indented part ❶ faces exactly to the right.
- 3) Insert the needle into the needle bar until it will go no further.
- 4) Securely tighten the needle clamp screw ❷.

6. ATTACHING/REMOVING THE BOBBIN CASE

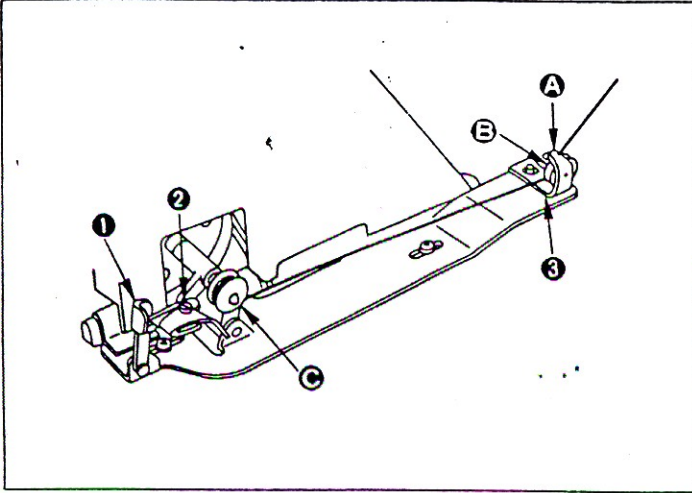


WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

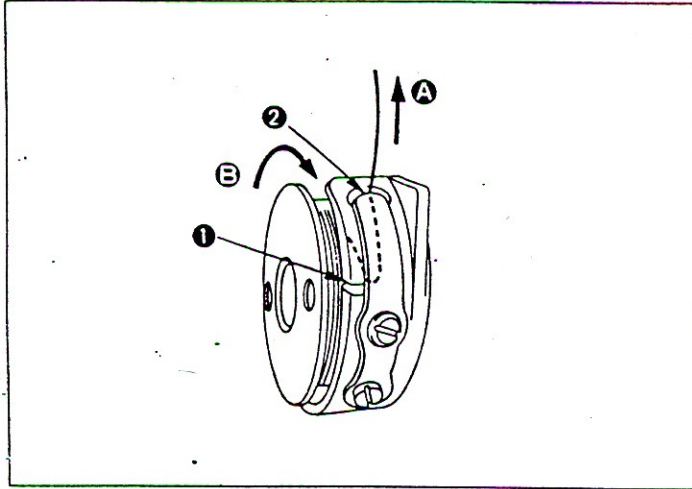
- 1) Raise lever ❶ of the hook, and remove the bobbin case together with the bobbin in it.
- 2) Fit the bobbin case into the hook driving shaft, and tilt the lever.

7. WINDING A BOBBIN



- 1) Route the thread in the order of **A**, **B** and **C** before winding it round the bobbin several times.
- 2) Set bobbin presser **1** down to bring the winder in contact with the belt.
- 3) Adjust screw **2** to adjust the amount of thread to be wound round the bobbin so that the bobbin is wound with thread about 80% of its capacity. Turn the screw clockwise to increase the amount of thread wound round the bobbin, or counterclockwise to decrease it.
- 4) If thread is wound unevenly round the bobbin, move winder tension adjuster base **3** to the right or left so that thread is evenly wound round the bobbin.
- 5) The moment the bobbin has been wound up, the bobbin presser is released, and the bobbin winder will stop automatically.

8. PLACING A BOBBIN IN THE BOBBIN CASE



WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

- 1) Hold a bobbin so that the end of the thread wound round the bobbin is directed to the right and put it into the bobbin case.
- 2) Pass the thread in threading slit **1** in the bobbin case, route it under the tension spring and draw it out from notch **2**.

(Caution) As long as the bobbin is correctly placed in the bobbin case, pulling the thread in direction **A** makes the bobbin rotate in direction **B**.

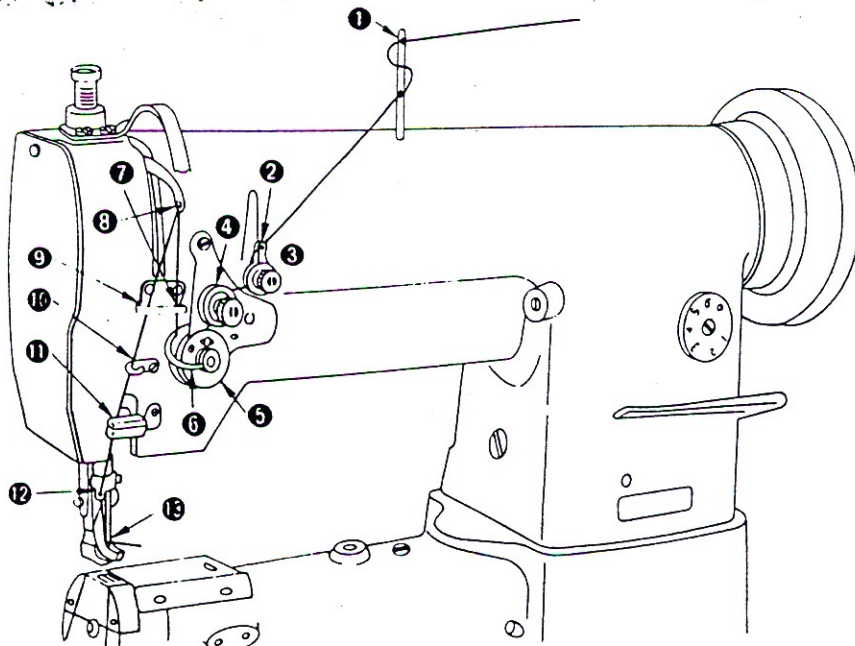
9. THREADING THE MACHINE HEAD



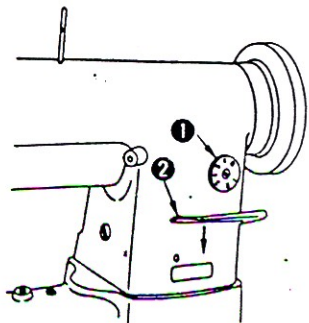
WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

Thread the machine as illustrated in the figure in the order of **1** through **15**.



10. ADJUSTING THE STITCH LENGTH

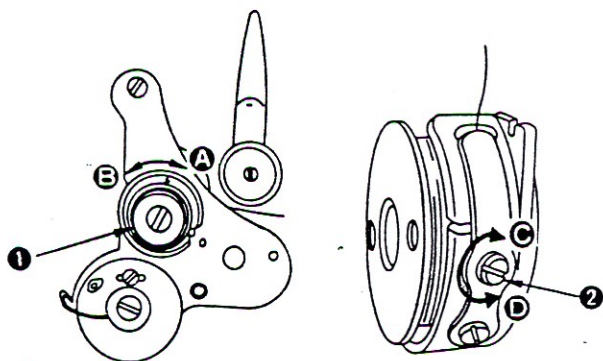


Turn stitch length dial **1** counterclockwise or clockwise to bring the desired value to the top of the dial so that the value is aligned with the pin.

★ Reverse feed stitching

- 1) Push down feed lever **2**.
- 2) The machine performs reverse feed stitching as long as the lever is held depressed.
- 3) The moment you release the lever, the machine resumed the normal stitching mode.

11. THREAD TENSION



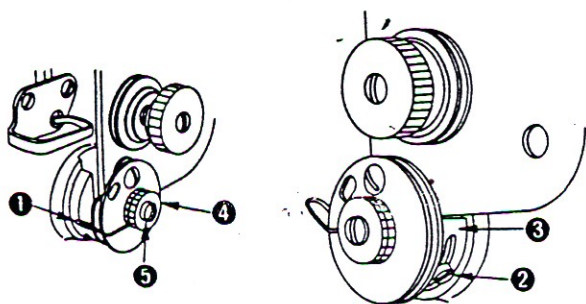
★ Adjusting the needle thread tension

Turn tension nut No. 2 **1** clockwise (toward **A**) to increase the needle thread tension, or counterclockwise (toward **B**) to decrease it.

★ Adjusting the bobbin thread tension

Turn tension screw **2** clockwise (toward **C**) to increase the bobbin thread tension, or counterclockwise (toward **D**) to decrease it.

12. THREAD TAKE-UP SPRING



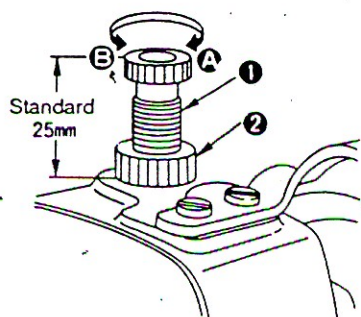
★ To change the stroke of thread take-up spring **1**

- 1) Loosen screw **2** in the stopper, and move stopper **3** to the right or left.
- 2) Move the stopper to the right to increase the stroke of the thread take-up spring, or to the left to decrease it.

★ To change the tension of the thread take-up spring

Loosen nut **4**. Turn spring shaft **5** counterclockwise to increase the tension of the spring, or clockwise to decrease it. Fit a screwdriver in the groove in the spring shaft and turn it until the desired tension is provided.

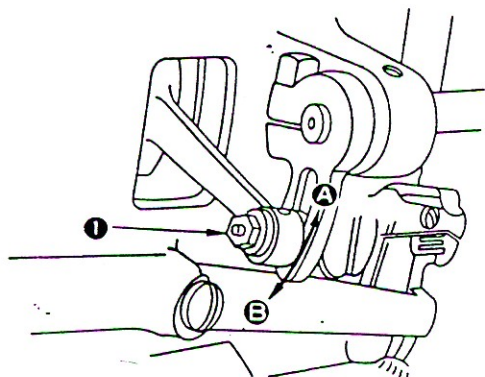
13. ADJUSTING THE PRESSURE OF THE PRESSER FOOT



Adjust the pressure of the presser foot in accordance with the type of material to be used. (Standard height of the pressure spring regulator: 25 mm)

- 1) Turn pressure spring regulator ① clockwise (toward A) to increase the pressure of the presser foot, or counterclockwise (toward B) to decrease it.
- 2) After the adjustment, securely tighten nut ② of the regulator.

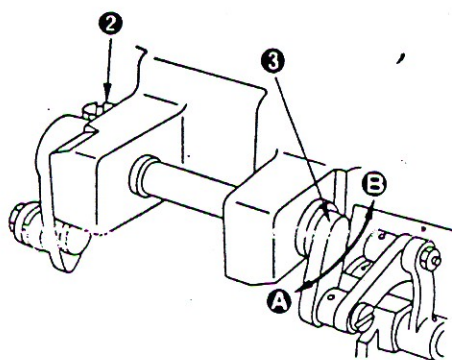
14. ADJUSTING THE PRESSER FOOT AND THE WALKING FOOT



★ Operating height of the walking foot and the presser foot

The operating height of the walking foot and the presser foot has been adjusted to the marker of "1/8" engraved on the top feed crank. A better result may be obtained by adjusting the operating height of the walking foot and the presser foot.

- Loosen nut ①, and change the position of the cam rod boss accordingly.
- Highest position → The stroke is maximized. A
- Lowest position → The stroke is minimized. B

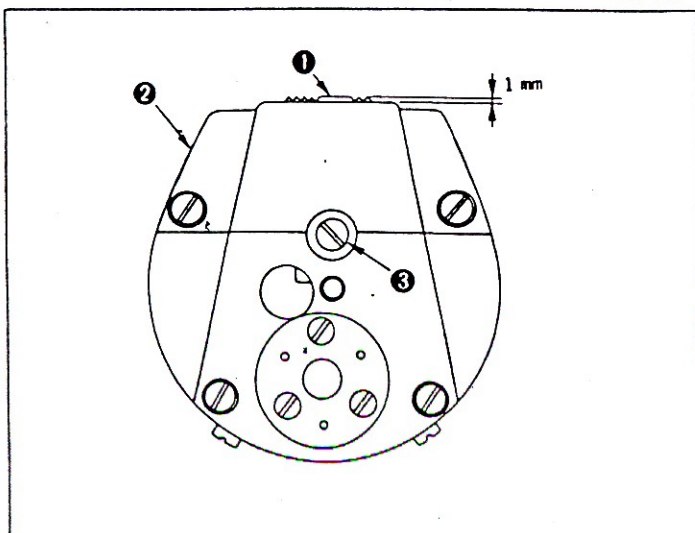


★ Alternate vertical motions of the walking foot and presser foot

The alternate vertical strokes of the walking foot and presser foot are normally equal.

- 1) Loosen screw ② of the top feed crank.
- 2) Bring the thread take-up lever to its highest position, and lower the presser bar lifting lever.
- Move top feed crank ③ to left A to increase the stroke of the presser foot, or to the right B to increase it.

15. HEIGHT OF THE FEED DOG



Feed dog ① has been factory-adjusted to jut out 1 mm from the surface of throat plate ②. When the feed dog height needs to be adjusted according the sewing conditions or after the feed dog is replaced, follow the procedure described below.

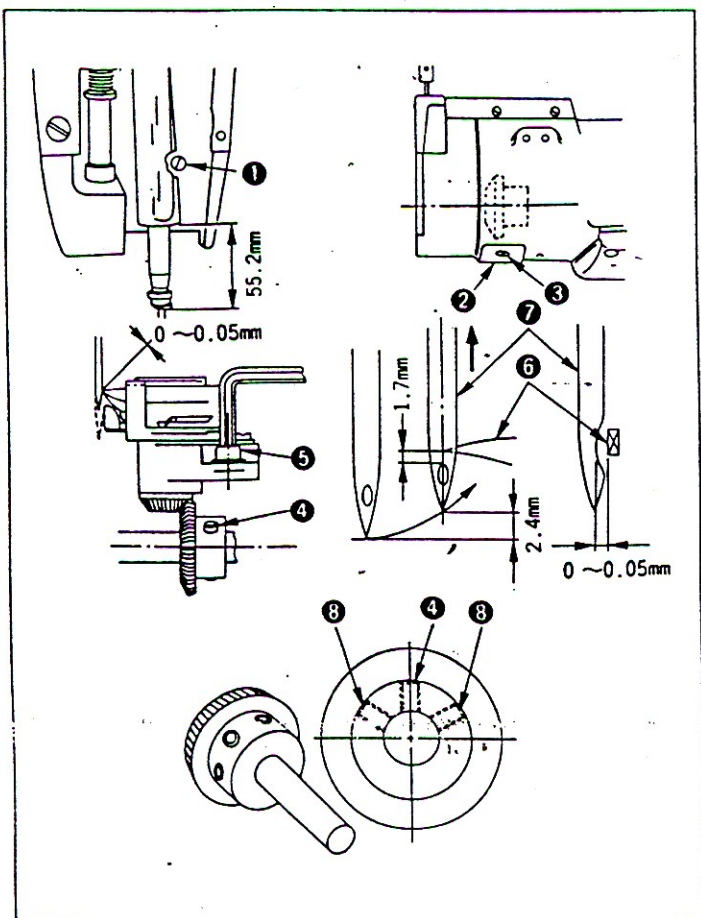
- 1) Maximize the feed dog height.
- 2) Loosen screw ③ in the feed dog.
- 3) Adjust the feed dog height comparatively higher than the standard height, and temporarily fix it at that position.
- 4) Now, adjust the height of the feed dog appropriately, and securely tighten the screw ③ in the feed dog.

16. NEEDLE-TO-HOOK RELATIONSHIP



WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



Adjust the timing between the needle and the hook following the procedure described below.

- 1) Set the feed regulating dial to "3".
- 2) Turn the handwheel to bring the needle bar to the lowest position of its stroke, and loosen needle bar connection screw ①.

★ Determine the height of the needle bar.

- 3) The standard height of the needle bar is obtained when a distance of 1.7 mm is provided between the top end of the needle eyelet and blade point ⑥ of the hook when the needle ascends 2.4 mm from the lowest position of its stroke.

(The lowest position of the needle bar for reference)

Distance from the bottom face of the needle bar frame to the bottom end of the needle bar: 55.2 mm

★ Determine the position of the hook

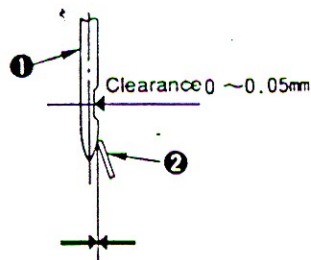
- 4) Loosen screw ③ in the gear cover ②, remove gear cover ② and loosen screws ④ and ⑧ in the large bevel gear.
- 5) In the state described in 3), loosen screw ⑤ in the hook driving shaft saddle and move the hook driving shaft saddle to the right or left until a clearance of 0 to 0.05 mm is provided between the blade point of the hook and needle ⑦. After the adjustment, securely tighten the screw.
- 6) Then, align the blade point of the hook with the center of the needle, and tighten screw ④ in the gear.
- 7) Turn the handwheel clockwise and alternately tighten screws ③ little by little.
(Never tighten either screw only.)

7. ADJUSTING THE NEEDLE GUARD OF THE HOOK



WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



After replacing the hook, be sure to confirm the position of the needle guard. The standard position of the needle guard is obtained when needle guard ② lightly comes in contact with the side face of needle ① as illustrated in the figure. If not, adjust the position of the needle guard by bending it accordingly.

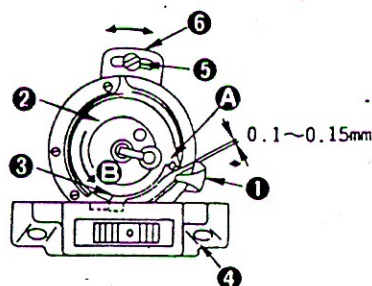
- 1) To bend the needle guard inward, apply a screwdriver to the outside of the needle guard.
- 2) To bend the needle guard outward, apply a screwdriver to the inside of the needle guard.

8. ADJUSTING THE BOBBIN CASE OPENING LEVER



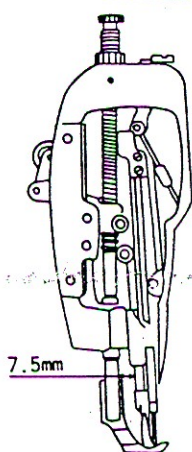
WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



- 1) Turn the handwheel in its normal rotational direction to bring bobbin case opening lever ① to its back end position.
- 2) Turn bobbin case ② in the direction of arrow B until stopper ③ comes in contact with the groove in throat plate ④.
- 3) Loosen screw ⑤ in the bobbin case opening lever adjustment plate and move bobbin case opening lever adjustment plate ⑥ in the direction of the arrow so that a clearance of 0.1 to 0.15 mm is provided between the bobbin case opening lever and protruding section A of the bobbin case.

9. ADJUSTING THE LONGITUDINAL POSITION OF THE NEEDLE BAR FRAME



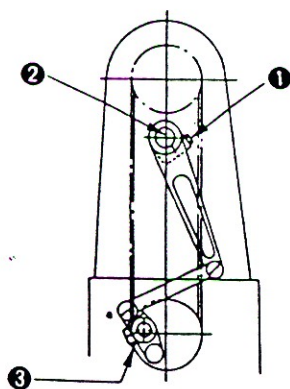
★ Adjusting the relationship between the top feed rod and presser bar

- 1) Set the feed regulating dial to its minimum value.
- 2) Loosen clamping screw ① in the needle bar frame rear arm, and adjust the clearance between the top feed rod and the presser bar to 7.5 mm.

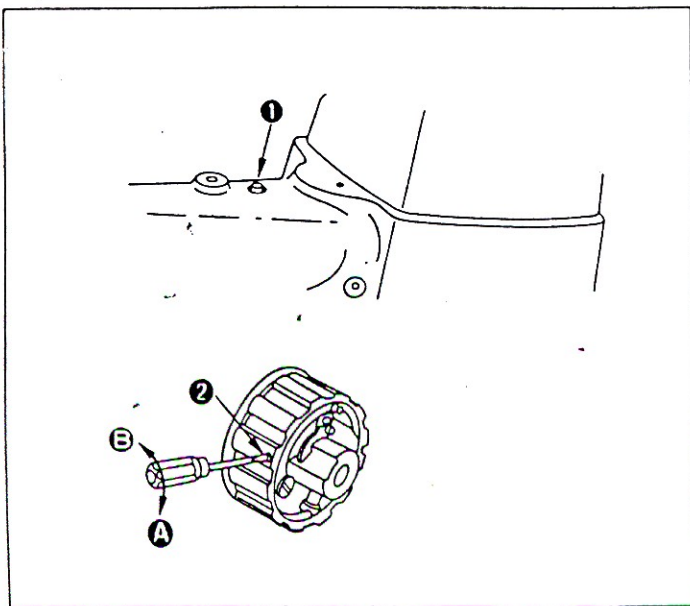
(Caution) Take care not to allow any play in needle bar frame ②.

★ Adjusting the relationship between the feed dog and the needle bar

- 1) Set the feed regulating dial to its minimum value.
- 2) Loosen clamping screw ③ in the feed rock shaft crank.
- 3) Adjust the position of the feed dog so that the needle comes to the center of the needle hole in the feed dog (slightly closer to the operator).



20. SAFETY MECHANISM



WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

If the thread is caught in the hook while the sewing machine is in operation, the safety mechanism actuates to idle the lower sprocket only.

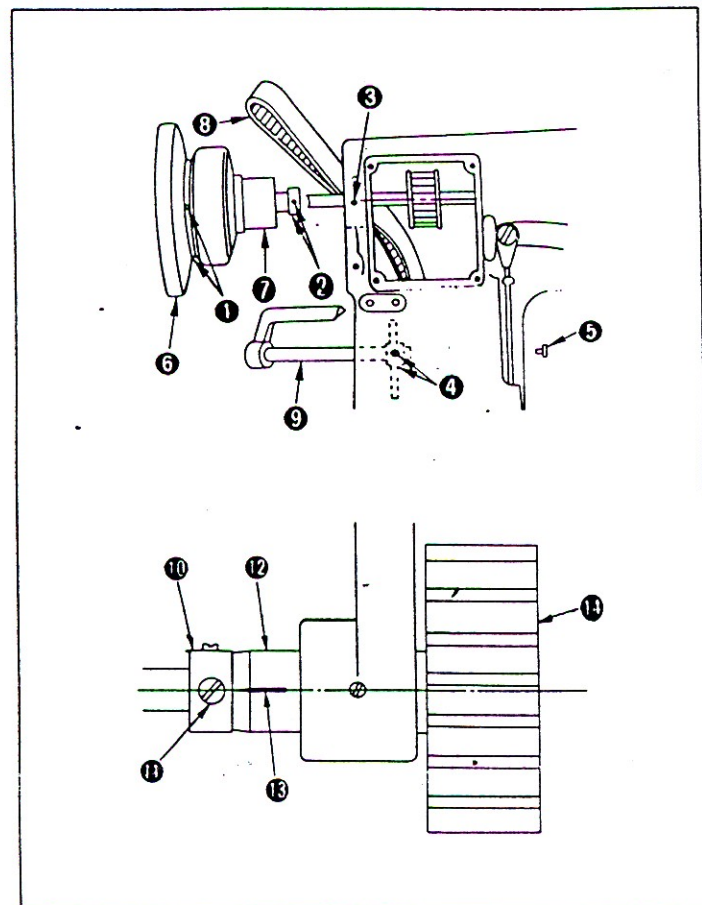
★ How to reset

- 1) Remove the thread caught in the hook.
- 2) Pressing push button ①, strongly turn the pulley in the direction opposite to its normal rotational direction.

★ Safety load

Turn adjustment screw ② in direction ④ (clockwise) to increase the safety load, or in direction ③ (counterclockwise) to decrease it.

21. REPLACING THE TIMING BELT



WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

★ How to remove the timing belt

- 1) Loosen screw ① in the handwheel, screws ② in main shaft rear bushing (2), screw ③ in the main shaft rear bushing, clamping screws ④ in the feed lever shaft arm and screw ⑤ in the feed lever shaft in the written order.
- 2) Remove handwheel ⑥, and pull out main shaft rear bushing ⑦.
- 3) Draw feed lever shaft ⑨ until a clearance enough to allow timing belt ⑧ to come off is provided.
- 4) Remove the timing belt from the lower sprocket, draw it from the side window and pull out it from the hole in the main shaft rear bushing.

★ How to Install the timing belt

- 1) Installation is carried out analogously in reverse order.
- 2) To adjust the timing between the main shaft and the hook driving shaft, turn the handwheel to bring the thread take-up to its highest dead point and the screw No. 1 ① engraved on the hook driving shaft thrust collar ⑩ with marker line ⑪ engraved on hook driving shaft rear bushing ⑫. In this state, insert the timing belt into lower sprocket ⑬.

22. MOTOR PULLEY AND V BELT

1. Use an M type V belt.
2. The following table show the relationship between the motor pulley, belt length and the rotational speed of the sewing machine.

Rotational speed of sewing machine	Frequency	Outside diameter of motor	Size of V belt
2000 s.p.m	50 Hz	ø115 mm	M57
	60 Hz	ø95 mm	M56

(Caution) The effective diameter of the motor pulley is 5 mm smaller than the outside diameter.
When your machine uses a single-phase motor, apply the belt which is 1 inch longer than those given in the table above.

23. TROUBLE IN SEWING AND CORRECTIVE MEASURES

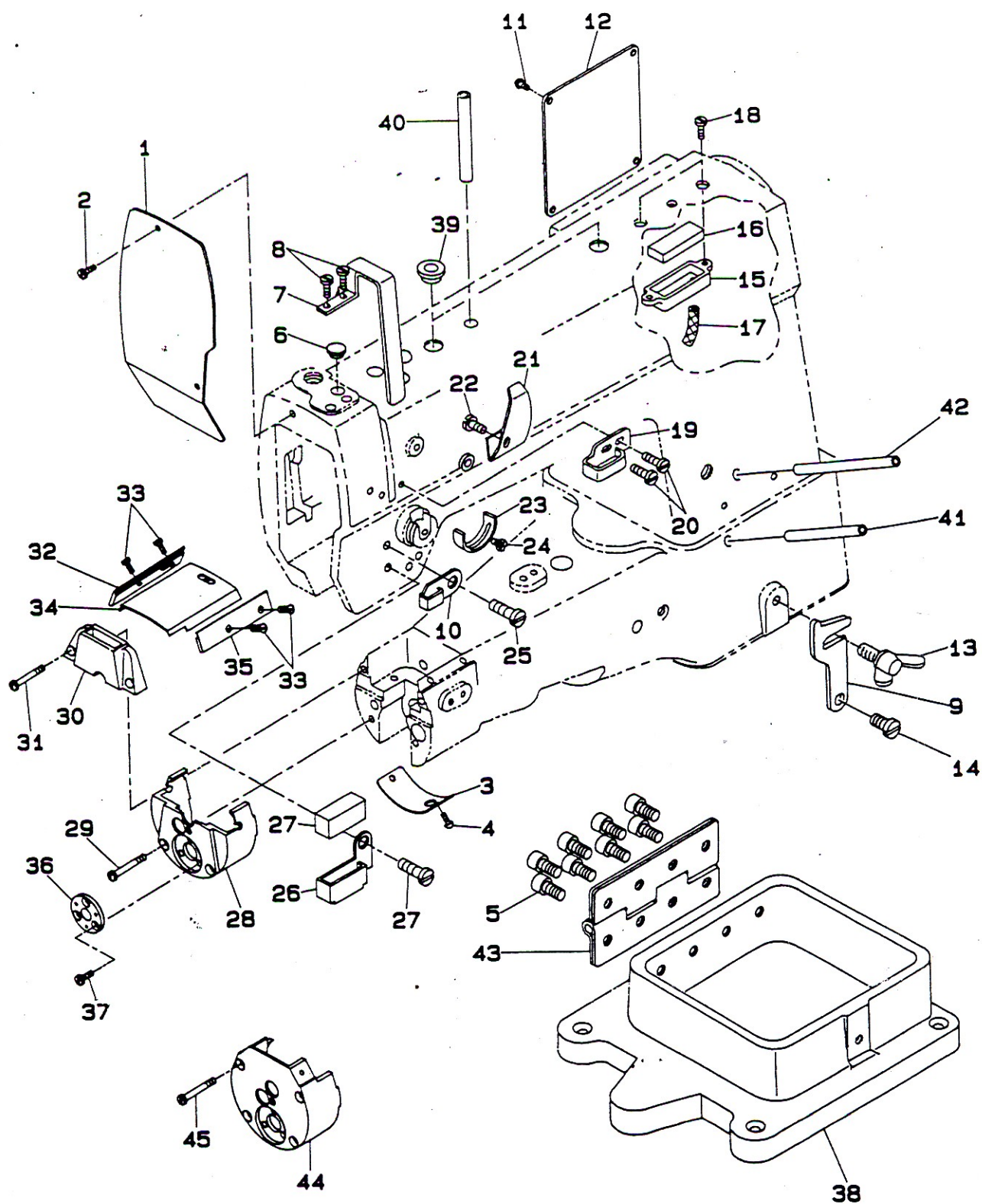
Trouble	Cause	Corrective measures.
1. Thread breakage (Thread frays or wears out.) (Needle thread remains 2 to 3 cm on the wrong side of the cloth.)	① The thread path, needle point, blade point of the hook or the stopper groove in the throat plate has scratches. ② The needle thread tension is too high. ③ The clearance in the bobbin case opening lever is too large. ④ The needle comes in contact with the blade point of the hook. ⑤ The needle thread tension is too low. ⑥ The thread take-up spring has an excessively high tension while it has an excessively small stroke. ⑦ The timing between the needle and hook too early or too late.	- o Remove the scratches on the blade point of the hook using a fine emery paper. Buff up the stopper groove in the throat plate. - o Adjust the needle thread tension properly. - o Decrease the clearance in the bobbin case opening lever. Refer to "18. Adjusting the bobbin case opening lever". - o Refer to "16. Needle-to-hook relationship". - o Adjust the needle thread tension properly. - o Decrease the tension of the thread take-up spring, and increase the stroke of the spring. - o Refer to "16. Needle-to-hook relationship".
2. Stitch skipping	① The clearance between the needle and the blade point of the hook is too large. ② The timing between the needle and hook is too early or too late. ③ The presser foot pressure is too low. ④ The height of the needle bar is inadequate. ⑤ The needle guard of the hook does not function. ⑥ The size of the needle is wrong. ⑦ Defective needle thread path. ⑧ The hook has scratches.	- o Refer to "16. Needle-to-hook relationship". - o Refer to "16. Needle-to-hook relationship". - o Tighten the pressure spring regulator. - o Refer to "16. Needle-to-hook relationship". - o Refer to "17. Adjusting the needle guard of the hook". - o Replace the needle by one which is one count thicker. - o See "9. Threading the machine head". - o Remove the scratches on the blade point of the hook using a fine emery paper.
3. Loose stitches (isolated idling loop)	① The thread path is poorly finished. ② The bobbin fails to rotate smoothly. ③ The clearance in the bobbin case opening lever is too large. ④ The bobbin thread tension is too low. ⑤ The bobbin thread has been wound too tight round the bobbin. ⑥ The forked part of the tension spring of the bobbin case is not threaded.	- o Grind it using a fine emery paper, or buff it up. - o Replace the bobbin, or replace the hook. - o See "18. Adjusting the bobbin case opening lever". - o Properly adjust the bobbin thread tension. - o Decrease the bobbin thread winding tension. - o Correctly thread the bobbin case.

CONTENTS

目 次

1. FRAME & MISCELLANEOUS COVER COMPONENTS	1
頭部・外装関係	
2. MAIN SHAFT & THREAD TAKE-UP LEVER COMPONENTS	3
上軸・天秤関係	
3. NEEDLE BAR & HOOK DRIVING SHAFT COMPONENTS	5
針棒・下軸関係	
4. PRESSER BAR COMPONENTS	7
押え棒関係	
5. UPPER FEED MECHANISM COMPONENTS	8
上送り関係	
6. FEED MECHANISM COMPONENTS	9
送り関係	
7. THREAD TENSION COMPONENTS	11
糸調子関係	
8. BELT COVER & BOBBIN WINDER COMPONENTS	12
ベルトカバー・糸巻装置関係	
9. KNEE LIFTER COMPONENTS	13
膝上げ関係	
10. THREAD STAND COMPONENTS	14
糸立装置関係	
11. GAUGE COMPONENTS	15
ゲージ関係	
NUMERICAL INDEX OF PARTS	16
索引	

1. FRAME & MISCELLANEOUS COVER COMPONENTS 頭部・外装関係



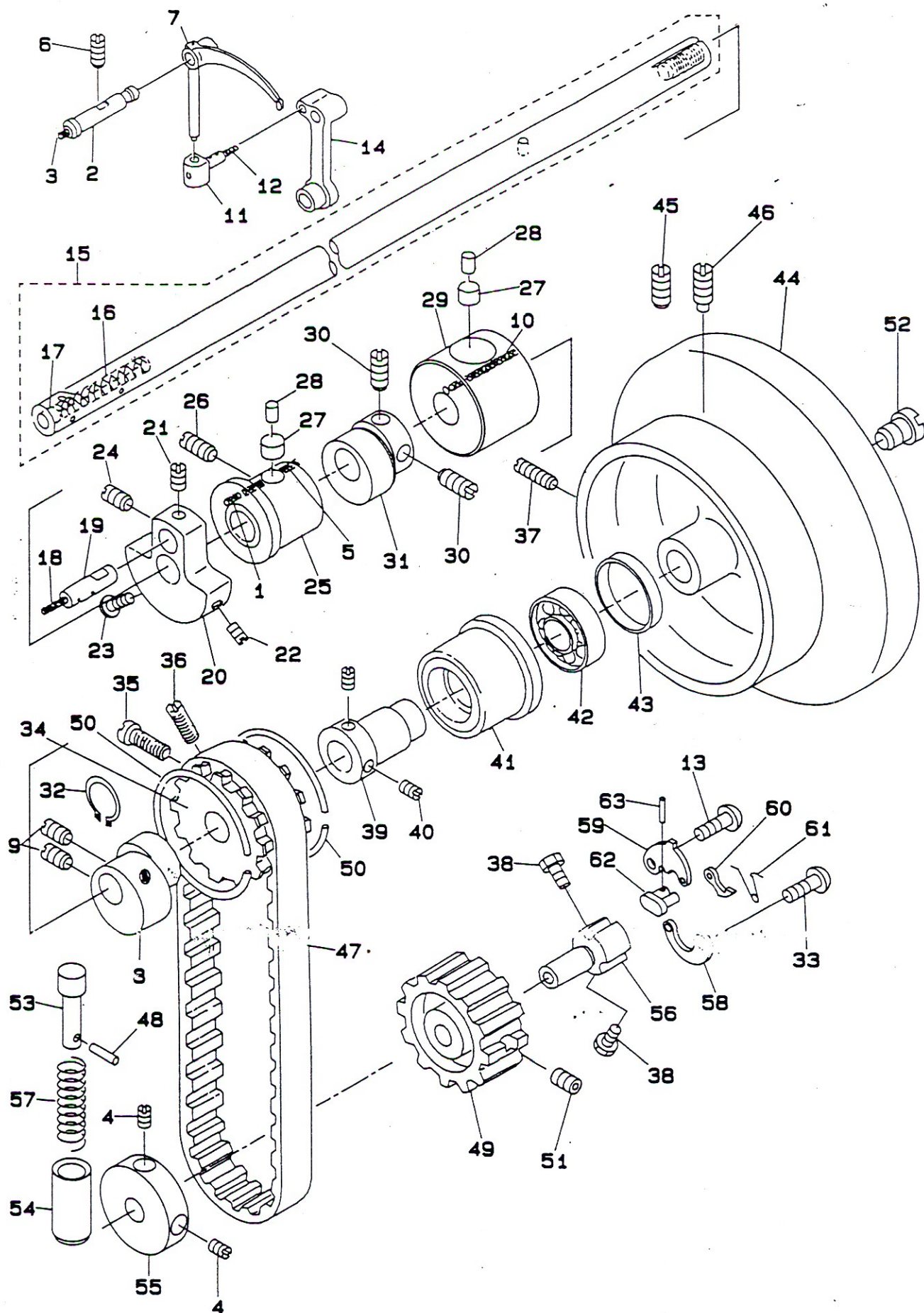
REF.NO	NOTE	PART NO.	DESCRIPTION	ヒンメイ	Qty
1		212-21056	SIDE PLATE ASM.	メンイタ(クミ)	1
2		SS-7090710-SP	SCREW 9/64-40 L= 6.8	マルヒラネジ 9/64-40 L=6.8	2
3		212-20900	GEAR COVER	ハクニルマカハ	1
4		SS-5090610-SP	SCREW 9/64-40 L=6	トラスネジ 9/64-40 L=6	2
5		SM-6082002-SP	SCREW M8 L=20	ロウカクアナボルト M8 L=20	8
6		TA-1250406-R0	RUBBER PLUG	トメセン D=12.5 L=4	1
7		D1158-241-E00	THREAD TAKE-UP LEVER COVER	テンヒン カハ	1
8		SS-7150940-SP	SCREW 15/64-28 L=9	マルヒラネジ 15/64-28 L=9	2
9		B1117-246-000	HOOK	カケガネ	1
10		B1130-051-000	FRAME THREAD GUIDE, MIDDLE	イトアンナイ	1
11		SS-7110710-SP	SCREW 11/64-40 L=7	マルヒラネジ 11/64-40 L=7	4
12		212-21205	SIDE PLATE	マトイタ	1
13		B1116-246-000	WING BOLT	カケガネトメ チヨウネジ	1
14		SD-0800352-SP	HINGE SCREW D= 8 H= 3.5	タニネジ D=8 H=3.5	1
15		212-23201	OIL PAN	アブラタマリ	1
16		B3503-115-000	OIL RESERVOIR FELT	アブラタマ フィルト (A)	1
17		CQ-2020000-00	OIL WICK	ユジン	0.08
18		SS-7111120-SP	SCREW 11/64-40 L=10.5	マルヒラネジ 11/64-40 L=10.5	2
19		B1129-563-000	FRAME THREAD GUIDE, UPPER	イトアンナイ ウエ	1
20		SS-2090710-SP	SCREW 9/64-40 L=7	マルチラネジ 9/64-40 L=7	2
21		B1140-051-000	TAKE-UP OIL SPLASHER	テンヒン ユボイタ	1
22		SS-5090610-SP	SCREW 9/64-40 L=6	トラスネジ 9/64-40 L=6	1
23		B3138-512-000	TAKE-UP SPRING ADJUSTING PLATE	イトトリハネ アンナイ チョーセツハン	1
24		SS-7090520-SP	SCREW 9/64-40 L= 4.5	マルヒラネジ 9/64-40 L=4.5	1
25		SS-2090710-SP	SCREW 9/64-40 L=7	マルチラネジ 9/64-40 L=7	2
26		B1130-528-000	THREAD GUIDE, LOWER	イトアンナイ シタ	1
27		B1131-528-000	FELT	イトアンナイ イトオキ	1
28		B1106-340-000	THROAT PLATE BASE FRAME	ハリイタ タイ	1
29		SS-7113110-SP	SCREW 11/64-40 L=30	マルヒラネジ 11/64-40 L=30	2
30		212-21908	THROAT PLATE	ハリイタ	1
31		SS-7112810-SP	SCREW 11/64-40 L=28	マルヒラネジ 11/64-40 L=28	2
32		B1108-340-000	BED SLIDE SIDE PLATE, LEFT	スハリイタウケ (ヒタリ)	1
33		SS-2090520-SL	SCREW 9/64-40 L=5	マルチラネジ 9/64-40 L=5	4
34		212-20405	BED SLIDE	スハリイタ	1
35		B1114-246-000	BED SLIDE SIDE PLATE, RIGHT	スハリイタウケ (ミキ)	1
36		212-27905	LOWER SHAFT FRONT METAL	シタジクマイメタル	1
37		SS-7110410-SP	SCREW 11/64-40 L=4	マルヒラネジ 11/64-40 L= 4	3
38		212-20207	MACHINE BASE	ハットウケタイ	1
39		B1156-115-000	RUBBER PLUG	ウツシタ アブラタマリ フタ	2
40		PS-0600302-KP	SPRING PIN	スプリングピン	1
41		PS-0600241-00	SPRING PIN 6X24	スプリングピン 6.0X24	1
42		PS-0600602-KP	OIL TUBE	スプリングピン	1
43		B1128-246-000	HINGE	チヨウハン	1
44	#01	212-20504	THROAT PLATE BASE FRAME	ハリイタ タイ	1
45	#01	SS-7113110-SP	SCREW 11/64-40 L=30	マルヒラネジ 11/64-40 L=30	4

Note (注記) #01....OPTION

オプション

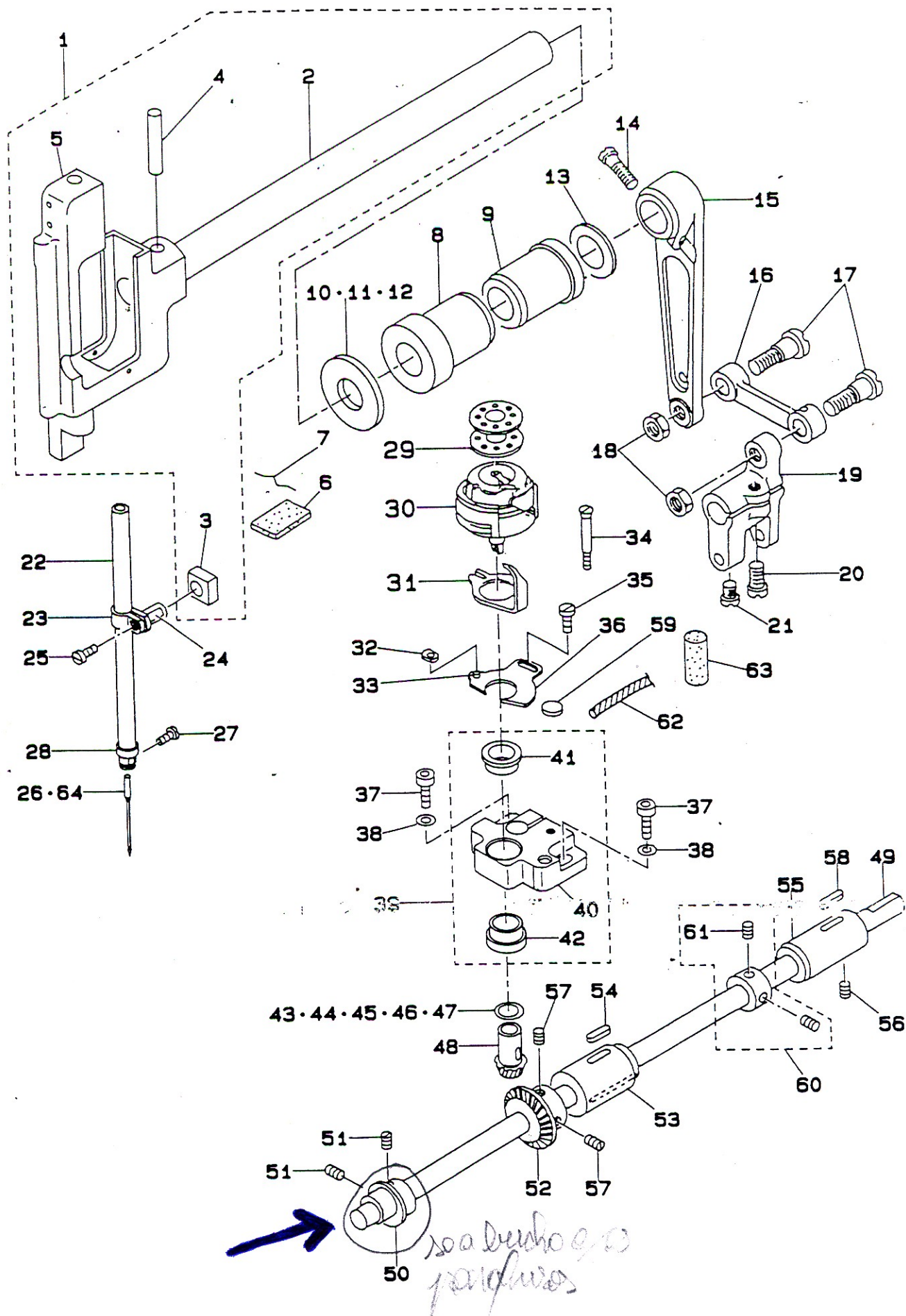
2. MAIN SHAFT & THREAD TAKE-UP LEVER COMPONENTS

上軸・天秤関係



REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ ン メ イ	Qty
1		TA-0500000-RO	PLUG	トメセン	2
2		B1906-051-000	TAKE-UP LEVER PIN	デンヒン ササエシク	1
3		CQ-2020000-00	OIL WICK	ユジン	0.1
4		SS-8150710-SP	SCREW 15/64-28 L=7	トメネジ 15/64-28 L=7	.2
5		CQ-2520000-00	OIL WICK	ユジン	0.1
6		SS-8151550-SP	SCREW 15/64-28 L=15	トメネジ 15/64-28 L=15	1
7		B1905-241-H00	THREAD TAKE-UP LEVER	デンヒン	1
8		B1605-246-000	FEED DRIVE ECCENTRIC CAM	オクリ ハンシン カム	1
9		SS-8661030-SP	SCREW 1/4-40 L=10	トメネジ 1/4-40 L=10	2
10		CQ-2000000-00	OIL WICK	ユジン	0.06
11		B1907-051-000	TAKE-UP LEVER THRUST PIN	デンヒン スライツシク	1
12		CQ-2000000-00	OIL WICK	ユジン	0.1
13		SD-0640322-TP	HINGE SCREW D= 6.35 H= 3.2	タネネジ D=6.35 H=3.2	1
14		D1408-241-E00	NEEDLE BAR CRANK ROD	ハリホウ クランクロッド	1
15		B1201-340-0A0	MAIN SHAFT ASM.	ウワシク (クミ)	1
16		CQ-3030000-00	OIL WICK	ユジン	(0.1)
17		TA-0500601-M0	PLUG D=5X5.4 L=6	トメセン D=5X5.4 L=6	(1)
18		CQ-5050000-00	OIL WICK	ユジン	0.1
19		B1210-051-000	NEEDLE BAR CRANK PIN	ハリホウ クランクピン	1
20		B1206-051-000	COUNTERWEIGHT	ツリアイモリ	1
21		SS-8680540-SP	SCREW 9/32-28 L= 4.5	トメネジ 9/32-28 L=4.5	1
22		SS-8681650-TP	SCREW 9/32-28 L=16	トメネジ 9/32-28 L=16	1
23		SS-7681750-TP	SCREW 9/32-28 L=16.5	マルヒラネジ 9/32-28 L=16.5	1
24		SS-8680730-SP	SCREW 9/32-28 L=7	トメネジ 9/32-28 L=7	1
25		B1202-051-000	MAIN SHAFT BUSHING, FRONT	ウワシク マイメタル	1
26		SS-8151550-SP	SCREW 15/64-28 L=15	トメネジ 15/64-28 L=15	1
27		B1203-051-000	OIL FELT	ウワシク マイメタル フィルト	2
28		B3517-009-000	OIL FELT REAR	ユーブ アフアラタメ フィルト	2
29		B1203-340-000	BUSHING, INTERMEDIATE	ウワシク カナメタル	1
30		SS-8660610-TP	SCREW 1/4-40 L=6	トメネジ 1/4-40 L=6	2
31		D1450-055-B00	UPPER FEED DRIVING CAM	ウワオクリカム	1
32		RC-2421211-KP	RETAINING RING	クリンク	1
33		SS-7661110-TH	SCREW 1/4-40 L=11	マルヒラネジ 1/4-40 L=11	1
34		B1302-051-000	SPROCKET WHEEL, UPPER	ウワスプロケット	1
35		SS-7681750-TP	SCREW 9/32-28 L=16.5	マルヒラネジ 9/32-28 L=16.5	1
36		SS-8681650-TP	SCREW 9/32-28 L=16	トメネジ 9/32-28 L=16	1
37		SS-8151550-SP	SCREW 15/64-28 L=15	トメネジ 15/64-28 L=15	1
38		SS-6660710-TP	SCREW 1/4-40 L=7	ヒラネジ 1/4-40 L=7	2
39		B1217-051-000	MAIN SHAFT BUSHING (2), REAR	ウワシク ウシロメタル (2)	1
40		SS-8150710-SP	SCREW 15/64-28 L=7	トメネジ 15/64-28 L=7	2
41		B1216-051-000	MAIN SHAFT BUSHING 1, REAR	ウワシク ウシロメタル (1)	1
42		SB-1150002-00	BEARING	ベアリング	1
43		B1218-051-000	REAR BEARING RETAINING COLLAR	ウワシク ウシロベアリング トメ	1
44		B1227-340-000	HAND WHEEL	ハズミクセル	1
45		SS-8151550-SP	SCREW 15/64-28 L=15	トメネジ 15/64-28 L=15	1
46		SS-8151780-SP	SCREW 15/64-28 L=17.0	トメネジ 15/64-28 L=17	1
47		212-23300	TIMING BELT	タイミンク ベルト	1
48		PS-0200102-KH	SPRING PIN 2.0 X 10	スプリング ピン 2.0X10	1
49		212-23706	SPROCKET WHEEL, LOWER	サウスプロケット	1
50		B1214-019-000	SPROCKET RING	スプロケット リンク	2
51		SS-8090410-SP	SCREW 9/64-40 L= 3.5	トメネジ 9/64-40 L=3.5	2
52		SS-7701010-SP	SCREW 5/16-24 L=10	マルヒラネジ 5/16-24 L=10	1
53		212-23409	SAFETY CLUTCH PUSH BUTTON	アンセツソウチオシホタン	1
54		212-23508	PUSH BUTTON CYLINDER	アンセツソウチオシホタンツツ	1
55		B1301-340-000	SAFETY CLUTCH DISK	アンセツソウチインハン	1
56		105-03605	SAFETY BASE	アンセツソウチウケ	1
57		B1639-051-000	SPRING	オシホタン ハネ	1
58		B1305-055-000-A	SAFETY CLUTCH SPRING	アンセツソウチ ハネ	1
59		B1307-055-000	SAFETY CLUTCH HOOK	アンセツソウチ ツメ	1
60		B1308-055-000	SAFETY CLUTCH COUNTER-HOOK	アンセツソウチ キヤク ツメ	1
61		B1309-055-000	COUNTER-HOOK SPRING	アンセツソウチ キヤクツメ ハネ	1
62		B1310-055-000	SAFETY CLUTCH SMALL LINK	アンセツソウチ ショーリンク	1
63		B1314-055-000	SAFETY CLUTCH SMALL LINK PIN	アンセツソウチ ショーリンク ピン	1

3. NEEDLE BAR & HOOK DRIVING SHAFT COMPONENTS 針棒・下軸関係

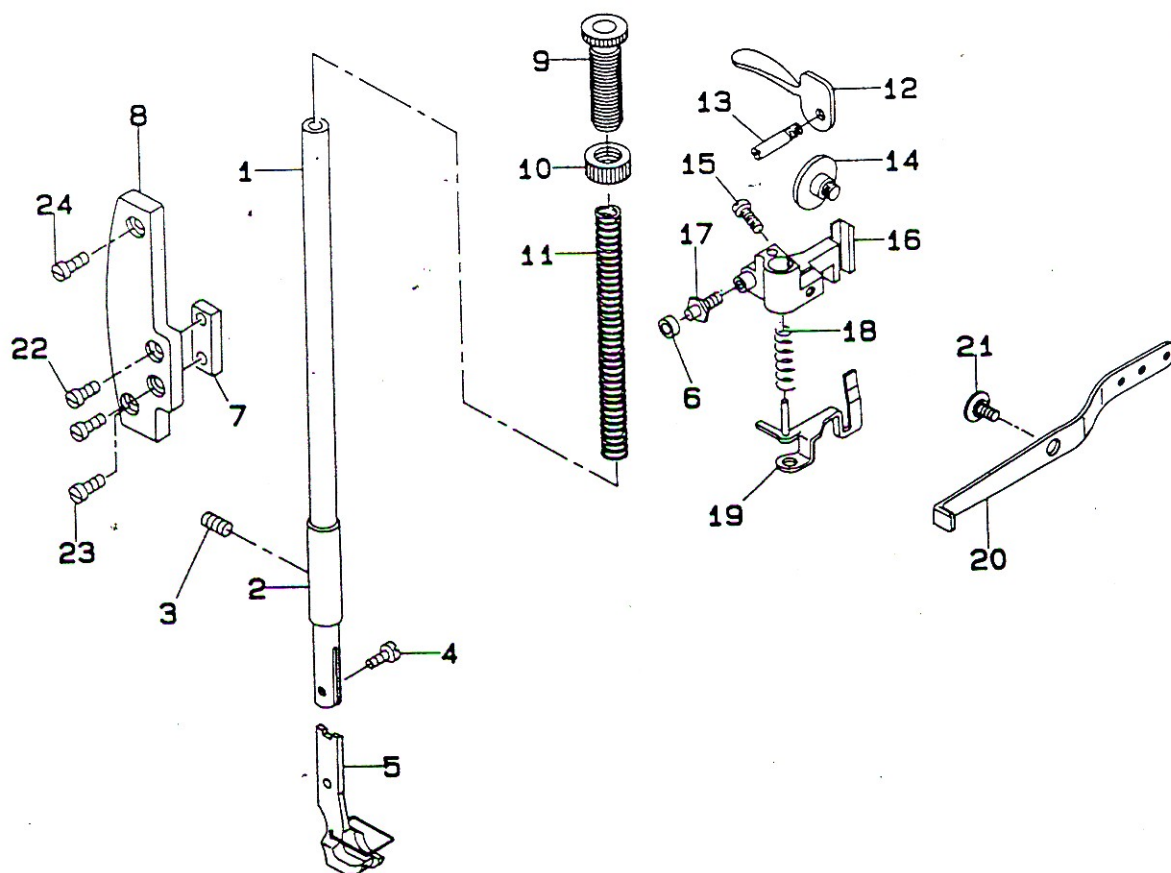


REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ シ メ イ	Qty
1		212-23854	NEEDLE BAR FRAME ASM.	ハリホウヨウトウタアイ (クミ)	1
2		B1424-512-000-A	NEEDLE BAR FRAME ROCK SHAFT	ハリホウヨウトウウジク	(1)
3		B1437-512-000-A	NEEDLE BAR SLIDE BLOCK	ハリホウカクゴマ	(1)
4		PT-0502700-S0	TAPERED PIN	チーハローピン	(1)
5		212-23805	NEEDLE BAR FRAME	ハリホウヨウトウタアイ	(1)
6		B1422-512-000	FELT	ハリホウヨートタアイ フィルト	1
7		B1440-512-000	RETAINER	ハリホウヨートタアイ フィルト オサエ	1
8		B1606-512-000	ROCK SHAFT BUSHING, FRONT	スライジンク マイメタル	1
9		B1608-512-000	ROCK SHAFT BUSHING, REAR	スライジンク ウシロメタル	1
10		B1438-512-B00	WASHER 17.1X28X1.5	ヨートシクメタル サカネ T=1.5	1
11	#01	B1438-512-A00	WASHER T=1.35	ヨートシクメタル サカネ T=1.35	1
12	#01	B1438-512-C00	WASHER	ヨートシクメタル サカネ	1
13		B1438-512-C00	WASHER	ヨートシクメタル サカネ	1
14		SS-9152130-CP	SCREW 15/64-28 L=20.5	ロウカクホルム 15/64-28	1
15		B1430-512-000	DRIVING ARM	ハリホウヨート ユーブウデ	1
16		B1434-246-000	CONNECTING ROD	ハリホウヨートロウト	1
17		SD-1020961-SP	HINGE SCREW D=10.2 H=9.6	タネネジ D=10.2 H=9.6	2
18		NS-6680410-SP	NUT 9/32-28	ロウカクナット 9/32-28	2
19		B1628-246-000	FEED ROCKER SHAFT CRANK	スライ オクリウデ	1
20		SS-6151440-SP	SCREW 15/64-28 L=14	ヒラネジ 15/64-28 L=14	1
21		SS-7110720-TP	SCREW 11/64-40 L=7	マルヒラネジ 11/64-40 L=7	1
22		B1401-053-000	NEEDLE BAR	ハリホウ	1
23		B1411-053-000	NEEDLE BAR CONNECTION	ハリホウタキ	1
24		B1412-051-000	FELT	ハリホウタキ フィルト	1
25		SS-7090910-SP	SCREW 9/64-40 L= 8.5	マルヒラネジ 9/64-40 L=8.5	1
26		MDP-170B2300	NEEDLE DPX17 #23	ハリ DPX17 #23	1
27		SS-7080510-TP	SCREW 1/8-44 L=4.5	マルヒラネジ 1/8-44 L=4.5	1
28		103-08401	NEEDLE BAR THREAD GUIDE	ハリホウイトカケ	1
29		B9117-201-000	BOBBIN	ホーピン	1
30		212-28051	HOOK ASM.	カマ (クミ)	1
31		212-27400	INNER HOOK GUIDE	ナカカマアンナイ	1
32		B1827-246-000	SLIDE BLOCK	ナカカマ アンナイ コロ	1
33		B1826-246-000	SLIDE BLOCK PIN	ナカカマ アンナイ コロシク	1
34		SS-1092810-SP	SCREW 9/64-40 L=25.4	チラネジ	1
35		SS-7090710-SP	SCREW 9/64-40 L= 6.8	マルヒラネジ 9/64-40 L=6.8	1
36		212-27509	ADJUSTING PLATE	ナカカマアンナイチョセウイタ	1
37		SM-6051202-TP	SCREW M5X0.8 L=12	ロウカクアナルホルム M5X0.8 L=12	2
38		WP-0520656-SA	WASHER 5.2X9.5X0.6	ヒラサカネ 5.2X9.5X0.6	2
39		212-29653	HOOK SHAFT SADDLE ASM.	カマシクタイ (クミ)	1
40		212-29604	HOOK SHAFT SADDLE	カマシクタイ	(1)
41		B1812-340-000	HOOK SHAFT BUSHING, UPPER	カマシクメタル (ウエ)	(1)
42		B1813-340-000	HOOK SHAFT BUSHING, LOWER	カマシクメタル (シタ)	(1)
43	#01	B1820-246-000	WASHER	カマシクサカネ	1
44	#01	B1820-246-00A	WASHER A	カマシクサカネ A	1
45		B1820-246-00B	WASHER B	カマシクサカネ B	1
46	#01	B1820-246-00C	WASHER C	カマシクサカネ C	1
47	#01	B1820-246-00D	WASHER	カマシクサカネ	1
48		212-27301	HOOK SHAFT GEAR	カマシクカサハクマルマ	1
49		B1816-340-000	HOOK DRIVING SHAFT	シタシク	1
50		212-27103	FEED VERTICAL CAM	オクリジョウケカマ	1
51		SS-8150510-TP	SCREW 15/64-28 L= 4.7	トメネジ 15/64-28 L=4.7	2
52		B1836-246-000-A	LOWER SHAFT BEVEL GEAR	シタシクカサハクマルマ	1
53		B1803-246-000	BUSHING, INTERMEDIATE	シタシク ナカメタル	1
54		B1805-201-000	OIL FELT	シタシク マイメタル フィルト	1
55		100-80406	BUSHING, INTERMEDIATE	シタシク ナカメタル	1
56		SS-8150510-TP	SCREW 15/64-28 L= 4.7	トメネジ 15/64-28 L=4.7	1
57		SS-8660612-TP	SCREW 1/4-40 L=6	トメネジ 1/4-40 L=6	3
58		B1806-038-000	OIL FELT	シタシク ウシロメタル フィルト	1
59		B3511-280-000	OIL FELT	ウツシクメタル フィルト	1
60		CS-0950810-SH	THRUST COLLAR ASM. D=9.5 W=8	スラストウケ D=9.5 W=8 クミ	1
61		SS-8110410-TP	SCREW 11/64-40 L= 3.5	トメネジ 11/64-40 L=3.5	(2)
62		CQ-2020000-00	OIL WICK	エッソ	(0.04)
63		B1432-027-000	OIL PAD ROLLER	ハリホウヨートタアイ フィルト	1
64	#02	MC-3720016-00	NEEDLE SY3355 160	ハリ SY3355 160	1

Note (注記) #01....SELECTIVE PART
#02....FOR JE

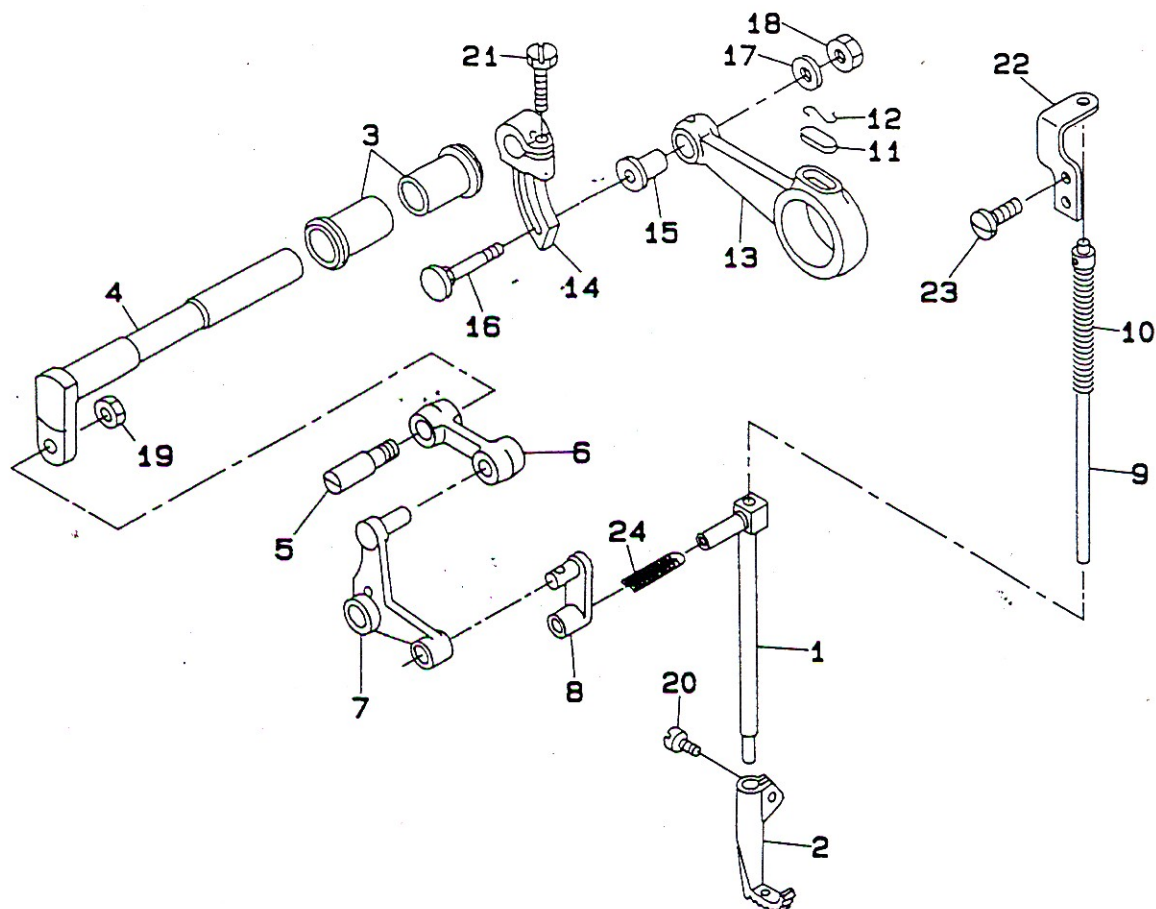
選択部品
J E 向のみ

4. PRESSER BAR COMPONENTS
押え棒関係



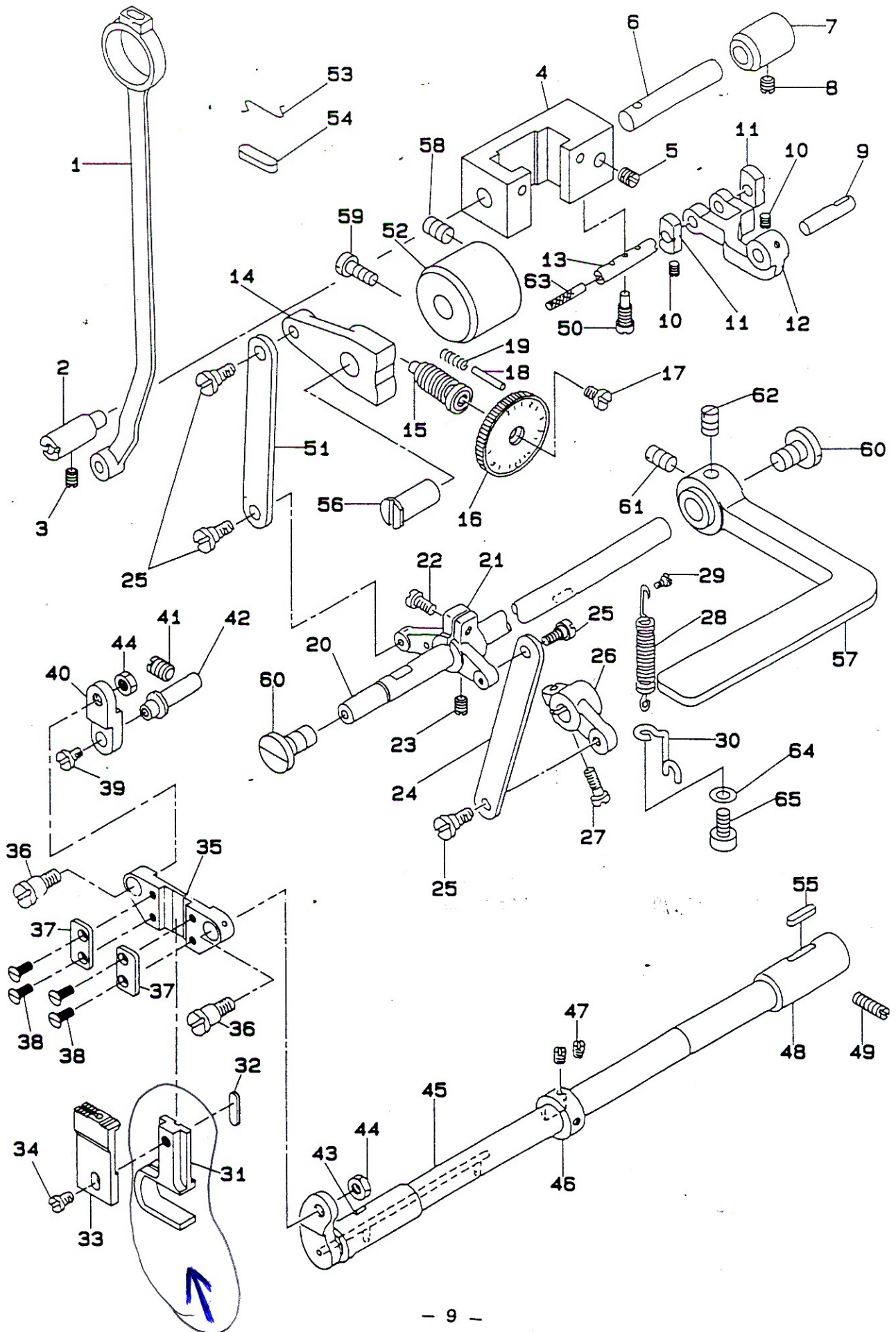
REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ シ ム イ	Qty
1		B1501-241-H00	PRESSER BAR	オサエ棒	1
2		B1510-155-000	PRESSER BAR LOWER BUSHING	オサエ棒 シタメタル	1
3		SS-8150710-SP	SCREW 15/64-28 L=7	トメネジ 15/64-28 L=7	1
4		SS-6090910-TP	SCREW 9/64-40 L=9	ヒラネジ 9/64-40 L=9	1
5		B1525-053-0A0	PRESSER FOOT ASM.	オサエ (アンセツカハーツキ) クミ	1
6		D1462-241-E00	CONNECTING PIN ROLLER	オサエアケテコタイ シツク コロ	1
7		D1463-241-E00	PRESSER BAR BRACKET GUIDE	オサエアケテコ カイト	1
8		D1464-241-E0A	GUIDE PLATE BASE	オサエアケテコカイト イタトタイ	1
9		B1509-141-H00	PRESSER SPRING REGULATOR	オサエチヨセツネジ	1
10		B1511-555-000	NUT 1/2-28	オサエチヨセツネジ ナツト	1
11		B1502-246-000	PRESSER SPRING	オサエ チヨクセツ ハネ	1
12		B1512-141-H00	HAND LIFTER	オサエアケ	1
13		B1515-051-000	HAND LIFTER PIN	オサエアケ シツク	1
14		SD-0800481-SP	HINGE SCREW D= 8 H= 4.9	タメネジ D=8 H=4.9	1
15		SS-7111310-SP	SCREW 11/64-40 L=12.8	マルヒラネジ 11/64-40 L=12.8	1
16		B1460-245-000	PRESSER LIFTING LEVER BASE	オサエアケテコタイ	1
17		B1461-245-000	GUIDE SHAFT HINGE SCREW	カイトシツクタメネジ	1
18		B1462-053-000	THREAD RELEASE SPRING	イトユルメ ウケイタ ハネ	1
19		B1460-246-0A0	THREAD RELEASE GUIDE ASM.	イト ユルメ ウケイタ (ケツウウ)	1
20		B3401-340-000	PRESSER BAR LIFTING LEVER	ヒサアケテコ	1
21		SD-1127321-SP	HINGE SCREW D=12.70 H= 3.2	タメネジ D=12.7 H=3.2	1
22		SS-7621040-SP	SCREW 3/16-32 L= 9.5	マルヒラネジ 3/16-32 L=9.5	2
23		SS-7150740-SP	SCREW 15/64-28 L=7	マルヒラネジ 15/64-28 L=7	1
24		SS-7621040-SP	SCREW 3/16-32 L= 9.5	マルヒラネジ 3/16-32 L=9.5	1

5. UPPER FEED MECHANISM COMPONENTS
上送り関係



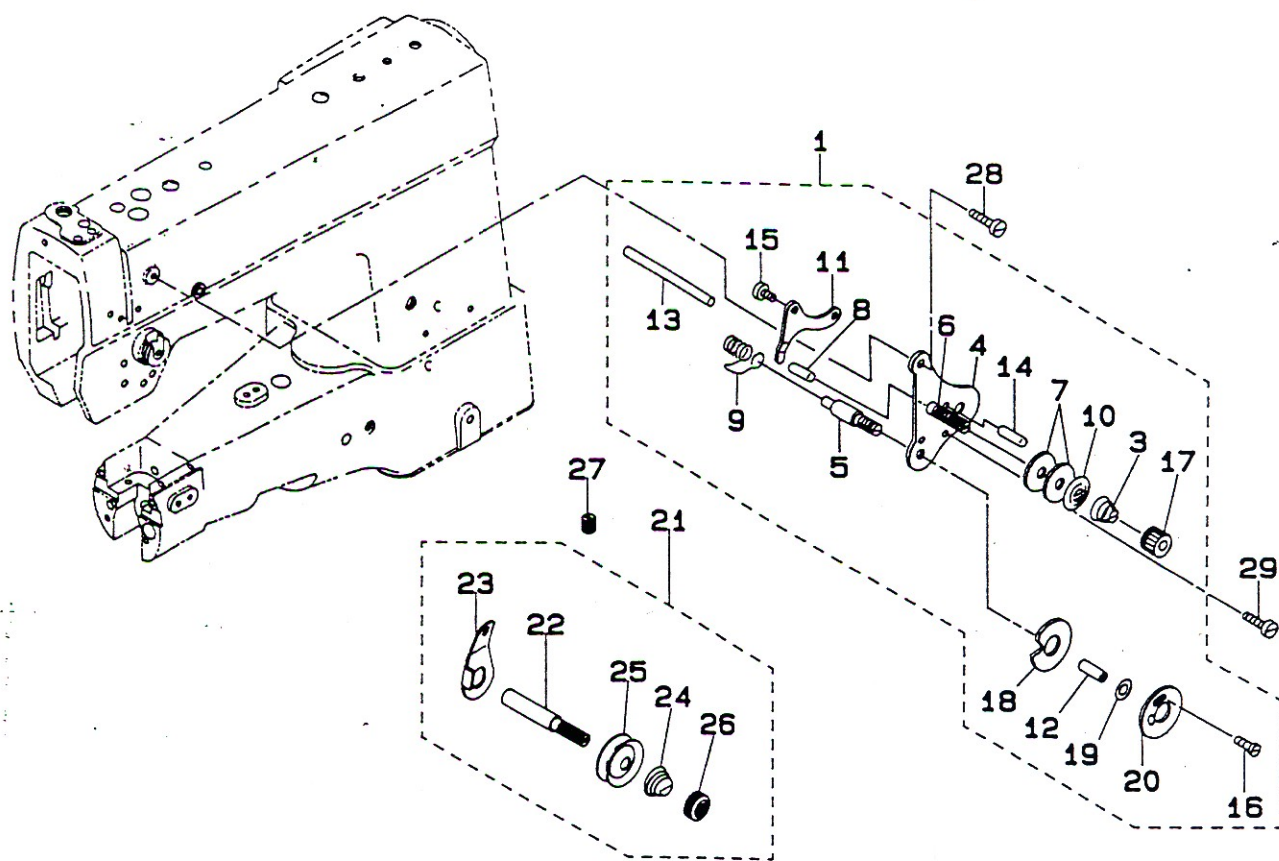
REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ	ン	メ	イ	Qty
1		B1466-053-000-A	WALKING BAR	ウワオクリホー				1
2		B1470-053-000	WALKING FOOT	ウワオクリアシ				1
3		B1455-053-000	BUSHING	ウワオクリシマク	メタル			2
4		B1456-053-000	UPPER FEED DRIVING SHAFT	ウワオクリシマク				1
5		B1457-055-000	SCREW STUD	ウワオクリ	レンケツ	タマシ		1
6		B1458-241-H00	UPPER FEED CONNECTING LINK	ウワオクリ	レンケツ	リンク		1
7		D1459-241-E00	L SHAPED LINK	Lカ	タ	リンク		1
8		B1465-053-000	WALKING BAR DRIVING LINK	ウワオクリ	ヨート	リンク		1
9		212-30057	WALKING BAR SPRING	ウワオクリ	ハネ	タマシ	ホウ(ケミ)	1
10		B1468-053-000	WALKING BAR SPRING	ウワオクリ	ホー	オサ	ハネ	1
11		B1702-012-000	OIL FELT	フ	エ	ルト		1
12		D1703-012-000	FELT RETAINER	フ	エ	ルト	オサ	1
13		D1453-055-B00	UPPER FEED DRIVING ROD	ウワオクリ	ロツト			1
14		D1454-055-B00	UPPER FEED SPRING ROD	ウワオクリ	ウチ			1
15		D1455-055-B00	CONNECTING STUD	ウワオクリ	ロツト	レンケツ	シマク	1
16		D1456-055-B00	HINGE SCREW	ウワオクリ	ロツト	タマシ		1
17		WP-0482086-SD	WASHER 4.8X11.5X2	ヒラ	チ	カネ	4.8X11.5X2	1
18		NS-6110530-SP	NUT 11/64-40	ロツ	カク	ナツト	11/64-40	1
19		NS-6660430-SP	NUT 1/4-40	ロツ	カク	ナツト	1/4-40	1
20		SS-6110710-TP	SCREW 11/64-40 L= 6.5	ヒラ	ネジ	11/64-40	L=6.5	1
21		SS-9161610-SP	SCREW 1/4-24 L=16	ロツ	カク	ホ	ルト 1/4-24 L=16	1
22		212-30107	WALKING BAR RETAINING PLATE	ウワオクリ	ハネ	タマシ	ホウウケイタ	1
23		SS-7090710-SP	SCREW 9/64-40 L= 6.8	マル	ヒラ	ネジ	9/64-40 L=6.8	2
24		CQ-2020000-00	OIL WICK	ユシ				0.02

6. FEED MECHANISM COMPONENTS
送り関係



REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ シ メ イ	Qty
1		B1619-246-000	CONNECTING ROD	オクリ ロット	1
2		B1621-246-000	FEED DRIVING ROCKER HINGE PIN	オクリ ハンカン タイ シェク	1
3		SS-8150510-TP	SCREW 15/64-28 L= 4.7	トメネジ 15/64-28 L=4.7	1
4		212-26006	FEED DRIVING ROCKER	オクリハンカンタイ	1
5		SS-8151150-SP	SCREW 15/64-28 L=10.5	トメネジ 15/64-28 L=10.5	1
6		B1622-246-000	FEED DRIVING ROCKER SHAFT	オクリ ハンカン シェク	1
7		B1623-246-000	BUSHING	オクリ ハンカン シェク メタル	1
8		SS-8150510-TP	SCREW 15/64-28 L= 4.7	トメネジ 15/64-28 L=4.7	1
9		B1627-246-000	FEED ROCKER SHAFT CRANK PIN	スイハイ オクリウチェク	1
10		SS-8090540-SP	SCREW 9/64-40 L=5	トメネジ 9/64-40 L=5	2
11		B1628-246-000	SLIDE BLOCK	オクリ ハンカン カクゴマ	2
12		B1624-246-000	FEED DRIVING ROCKER ARM	オクリ チョウセツ リンク	1
13		B1625-246-000	SLIDE BLOCK SHAFT	オクリ ハンカン カクゴマ シェク	1
14		212-26501	FEED REGULATOR	オクリチョウセツキ	1
15		B1652-115-000	NEEDLE FEED REGULATING SPRING	オクリチョウセツネジ	1
16		B1633-246-000	STITCH DIAL	メモリタ	1
17		SS-6121050-SP	SCREW 3/16-28 L= 9.5	ヒラネジ 3/16-28 L=9.5	1
18		B1147-555-000	PIN	オクリ チョウセツ ピン	1
19		B1148-555-000	SPRING	オクリ チョウセツ ピンハネ	1
20		212-26402	REVERSE FEED LEVER SHAFT	オクリレバシェク	1
21		212-26105	CONTROL LEVER CRANK	オクリレバシェクウチ	1
22		SS-6121210-SP	SCREW 3/16-28 L=12	ヒラネジ 3/16-28 L=9	1
23		SS-8150710-SP	SCREW 15/64-28 L=7	トメネジ 15/64-28 L=7	1
24		B1630-246-000	CONTROL LEVER CRANK LINK	オクリ ハンカン リンク (A)	1
25		SD-0640325-SP	HINGE SCREW	タネネジ	4
26		B1631-246-000	FEED DRIVING ROCKER SHAFT ARM	オクリ ハンカン シェク ウチ	1
27		SS-6121210-SP	SCREW 3/16-28 L=12	ヒラネジ 3/16-28 L=9	1
28		B1666-246-000	TENSION SPRING	ヒツパリ ハネ	1
29		SD-0400201-SD	HINGE SCREW D= 4 H= 2	タネネジ D=4 H=2	1
30		212-26709	SUSPENSION HOOK	ヒツパリハネカケ	1
31		B1602-340-000	FEED BAR CRANK	オクリタ イフタマタ	1
32		B1806-038-000	OIL FELT	シタジク ウシロメタル フィルト	1
33		212-25305	FEED DOG, 3.2MM	オクリハ (オブ ション リアナ:3.2)	1
34		SS-6110670-TP	SCREW 11/64-40 L=6.5	マルヒラネジ	1
35		B1601-340-000	FEED BAR SUPPORT	オクリタ イサエ	1
36		SD-0790701-SP	HINGE SCREW D=7.94 H=7	タネネジ	2
37		B1603-340-000	FEED BAR SUPPORT PLATE	オクリタ イサエ	1
38		SS-1080620-SP	SCREW 1/8-44 L=6	チラネジ 1/8-44 L=6	4
39		SS-7110830-SP	SCREW 11/64-40 L= 7.5	マルヒラネジ 11/64-40 L=7.5	1
40		B1616-246-000	FEED BAR LINK	オクリ タ イ リンク	1
41		SS-8150750-SP	SCREW 15/64-28 L=7	トメネジ 15/64-28 L=7	1
42		B1617-246-000	FEED ROCKER LINK SHAFT	スイハイ オクリ リンク シェク	1
43		B1607-246-000	BUSHING, FRONT	スイハイ オクリシェク マイメタル	1
44		NS-6660430-SP	NUT 1/4-40	ロツカクナツト 1/4-40	2
45		212-24308	FEED ROCKER SHAFT	スイハイオクリシェク	1
46		CS-1111019-SH	THRUST COLLAR D=11.11 W=10	スラストウケ D=11.11 W=10	1
47		SS-8660610-TP	SCREW 1/4-40 L=6	トメネジ 1/4-40 L=6	2
48		B1609-246-000	BUSHING, REAR	スイハイ オクリシェク ウシロメタル	1
49		SS-8151550-SP	SCREW 15/64-28 L=15	トメネジ 15/64-28 L=15	1
50		SS-7151550-SP	SCREW 15/64-28 L=14.5	マルヒラネジ 15/64-28 L=14.5	1
51		212-26303	FEED LEVER CONNECTING LINK B	オクリハンカンリンク(B)	1
52		212-26600	FEED REGULATOR BUSHING	オクリチョウセツキブッシュ	1
53		B1213-012-000	FELT RETAINER	フィルト オサエ	1
54		B1702-012-000	OIL FELT	フィルト	1
55		B1806-038-000	OIL FELT	シタジク ウシロメタル フィルト	1
56		B1622-555-000	HINGE PIN	オクリ チョウセツタ イ トメジク	1
57		B1624-141-H00	FEED LEVER	オクリレバ	1
58		SS-8151150-SP	SCREW 15/64-28 L=10.5	トメネジ 15/64-28 L=10.5	1
59		SS-6151440-SP	SCREW 15/64-28 L=14	ヒラネジ 15/64-28 L=14	1
60		SS-7620750-SP	SCREW 3/16-32 L= 6.5	マルヒラネジ 3/16-32 L=6.5	2
61		SS-8660810-TP	SCREW 1/4-40 L=8	トメネジ 1/4-40 L=8	1
62		SS-8661040-TP	SCREW 1/4-40 L=10	トメネジ 1/4-40 L=10	1
63		CQ-2000000-00	OIL WICK	ウシシ	(0.1)
64		WP-0371016-SD	WASHER 3.7X8X1	ヒラサカネ 3.7X8X1	1
65		SS-7090910-SP	SCREW 9/64-40 L= 8.5	マルヒラネジ 9/64-40 L=8.5	1

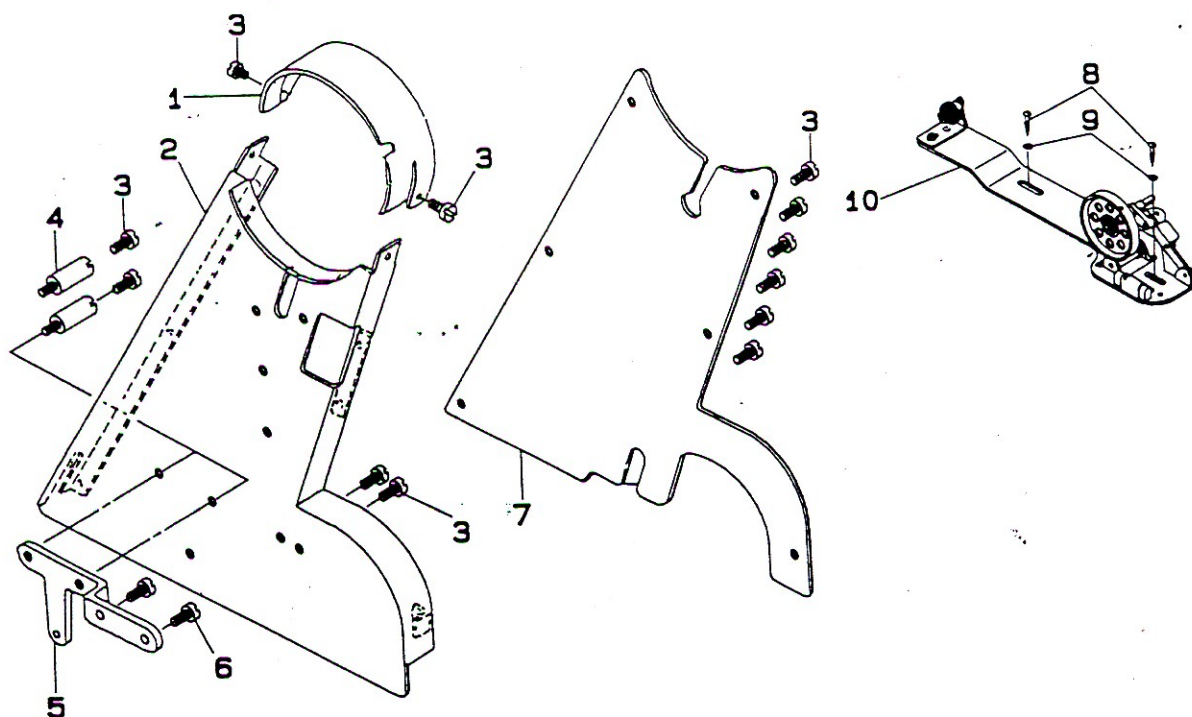
7. THREAD TENSION COMPONENTS
糸調子関係



REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ シ ャ イ	Qty
1		212-30552	TENSION CONTROLLER ASM.	イトチウシ (クミ)	1
2		B3125-012-000	THREAD TENSION NUT	イトチヨ-シ ナツト	(1)
3		B3129-053-000	TENSION SPRING	イトチヨ-シハネ	(1)
4		B3121-512-000	TENSION CONTROLLER BASE	イトチヨ-シ タイイタ	(1)
5		B3123-051-000	TAKE-UP SPRING STUD	イトトリ ハネシク	(1)
6		B3124-051-000	TENSION STUD	イトチヨ-シホ-	(1)
7		B3126-051-000	TENSION DISC	イトチヨ-シ シラ	(1)
8		B3127-051-000	TENSION RELEASE PIN, SHORT	イトユルメ ヒオン	(1)
9		B3128-051-000	THREAD TAKE-UP SPRING, A	イトトリハネ	(1)
10		B3132-051-000	TENSION DISC HOLDER	イトチヨ-シシラ オサエ	(1)
11		B3134-051-000	TENSION RELEASE LEVER	イトユルメ イタ	(1)
12		B3137-051-00A	TAKE-UP SPRING GUIDE SHAFT	イトトリハネ アシラ; カシメシク	(1)
13		B3122-053-000	TENSION RELEASE BAR	イトユルメ オシホ-	(1)
14		PS-0200122-K0	SPRING PIN 2.0X12	スプリングヒオン 2.0X12	(1)
15		SD-0470281-SP	HINGE SCREW D=4.7 H=2.8	タメネシ D=4.7 H=2.8	(2)
16		SS-4080610-SP	SCREW 1/8-44 L=6.4	ナハネシ 1/8-44 L=6.4	(1)
17		103-20208	THRED TENSION STUD NUT	イトトリハネシクナツト	(1)
18		B3137-051-00B	TENSION GUIDE DISC, INNER	イトトリハネ アンナイシラ (ウチガワ)	(1)
19		B3137-051-00C	SHAFT	イトトリハネ アンナイシク	(1)
20		B3137-051-00D	TENSION GUIDE DISC, OUTER	イトトリハネ アンナイシラ (ソトガワ)	(1)
21		212-21452	TENSION CONTROLLER ASM. NO.1	タイイチイトチウシセツ	1
22		D3161-555-B00	FIRST TENSION POST	タイイチ イトチヨ-シホ-	(1)
23		D3162-555-B00	THREAD GUIDE	タイイチ イトチヨ-シホ- アンナイ	(1)
24		D3168-555-H0B	SPRING	タイイ イトチウシハネ	(1)
25		B3214-047-000	BOBBIN WINDER TENSION DISC	イトチヨ-シ シラ	(2)
26		B3216-047-000	BOBBIN WINDER TENSION NUT	イトチヨ-シ ナツト	(1)
27		SS-8110510-SP	SCREW 11/64-40 L=5	トメネシ 11/64-40 L=5	1
28		SS-7110720-SP	SCREW 11/64-40 L=7	マルヒラネシ 11/64-40 L=7	1
29		SS-2090710-SP	SCREW 9/64-40 L=7	マルチラネシ 9/64-40 L=7	1

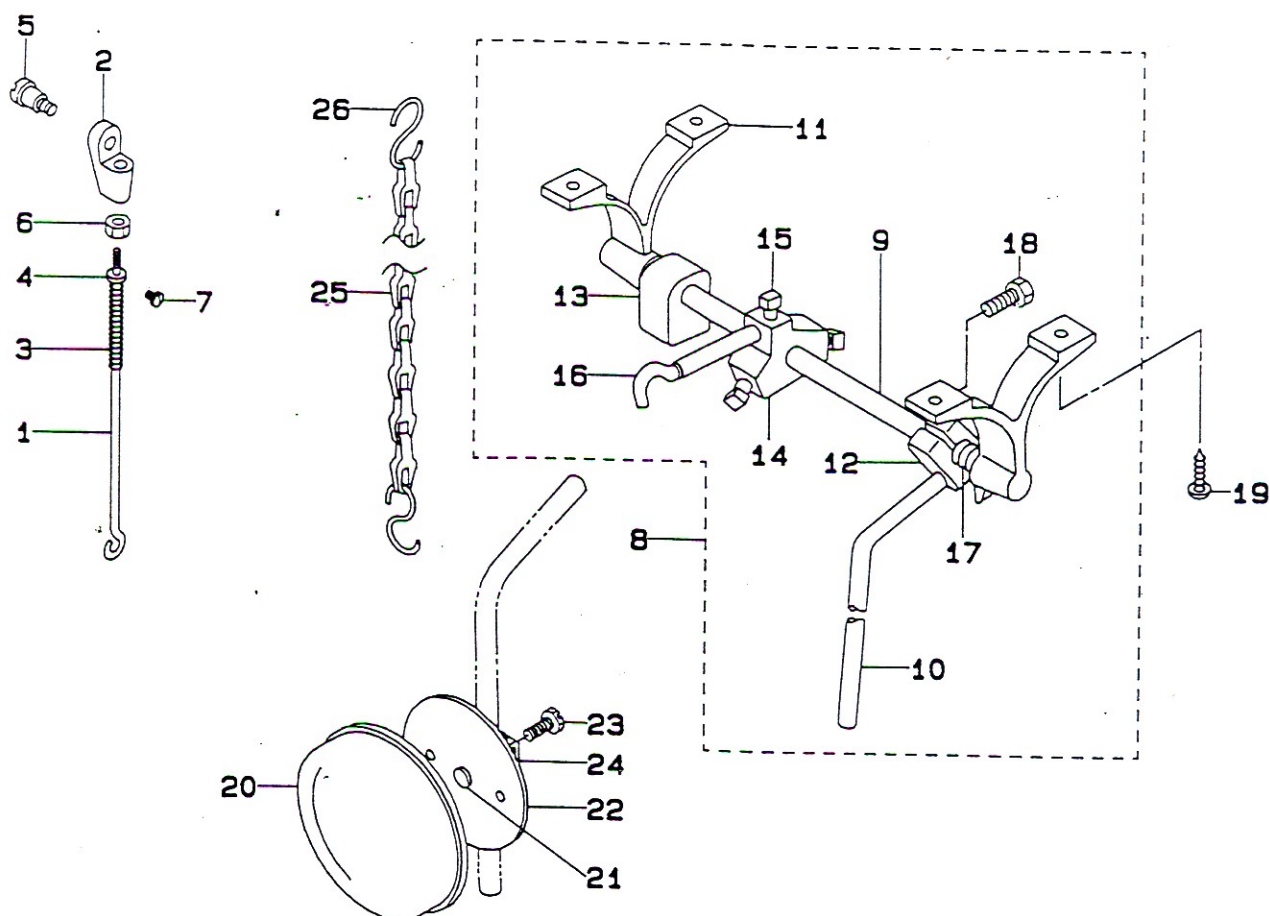
8. BELT COVER & BOBBIN WINDER COMPONENTS

ベルトカバー・糸巻装置関係



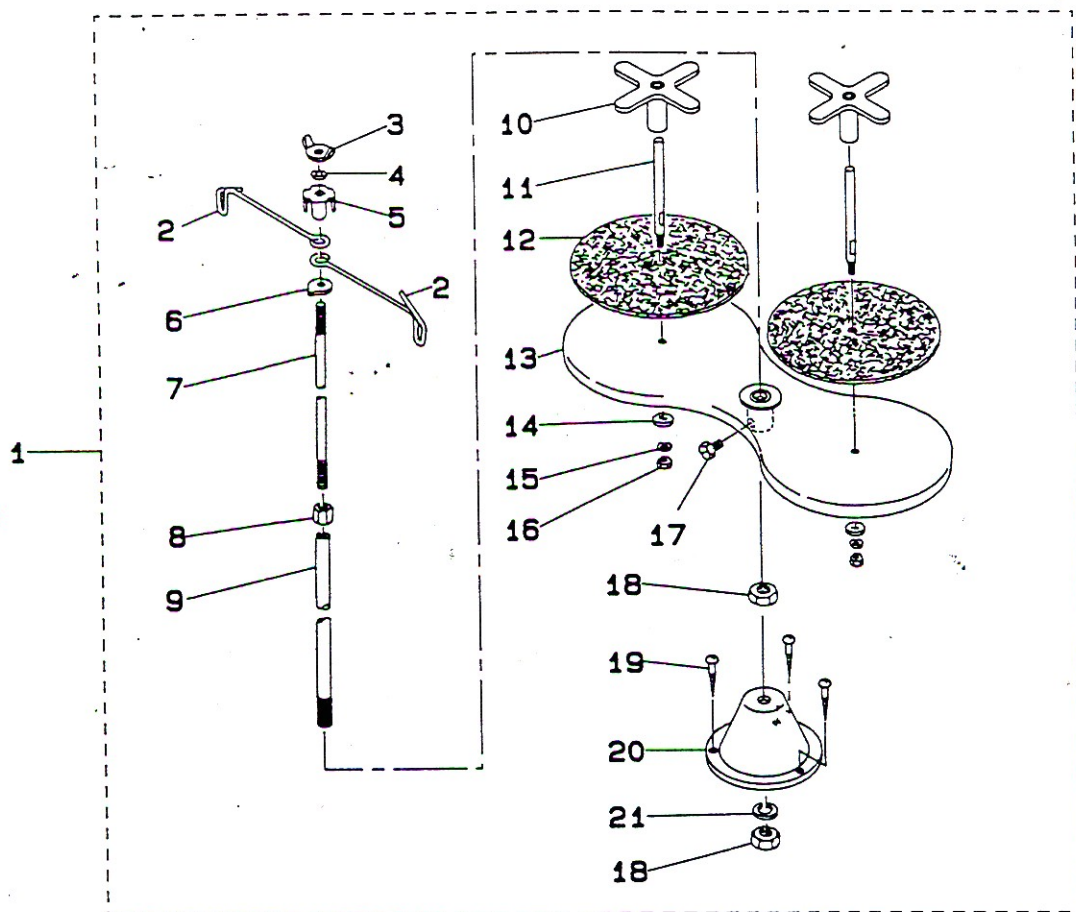
REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ シ メ イ	Qty
1		B9101-246-000	BELT COVER, TOP	トップカバー	1
2		B9102-245-0A0	BELT COVER ASM.	ベルトカバー-(ケツコウ)	1
3		SS-6110480-SP	SCREW 11/64-40 L=4.3	ヒラネジ 11/64-40 L=4.3	12
4		B9106-246-000	BELT COVER SUPPORT	ベルトカバー ササエ	2
5		B9107-246-000	BELT COVER SUPPORT PLATE	ベルトカバー ササエ イタ	1
6		SS-6111140-SP	SCREW 11/64-40 L=11	ヒラネジ 11/64-40 L=11	2
7		B9104-246-000	BELT COVER, LOWER	ベルトカバー (フタ)	1
8		SK-3482500-SC	WOOD SCREW D=4.8 L=25	マルモクネジ D=4.8 L=25	2
9		WP-0501016-SC	WASHER 5X10.5X1	ヒラサッカネ 5X10.5X1	2
10		B3201-012-0A0	BOBBIN WINDER ASM.	イトマキ ソーチ	1

9. KNEE LIFTER COMPONENTS
膝上げ関係



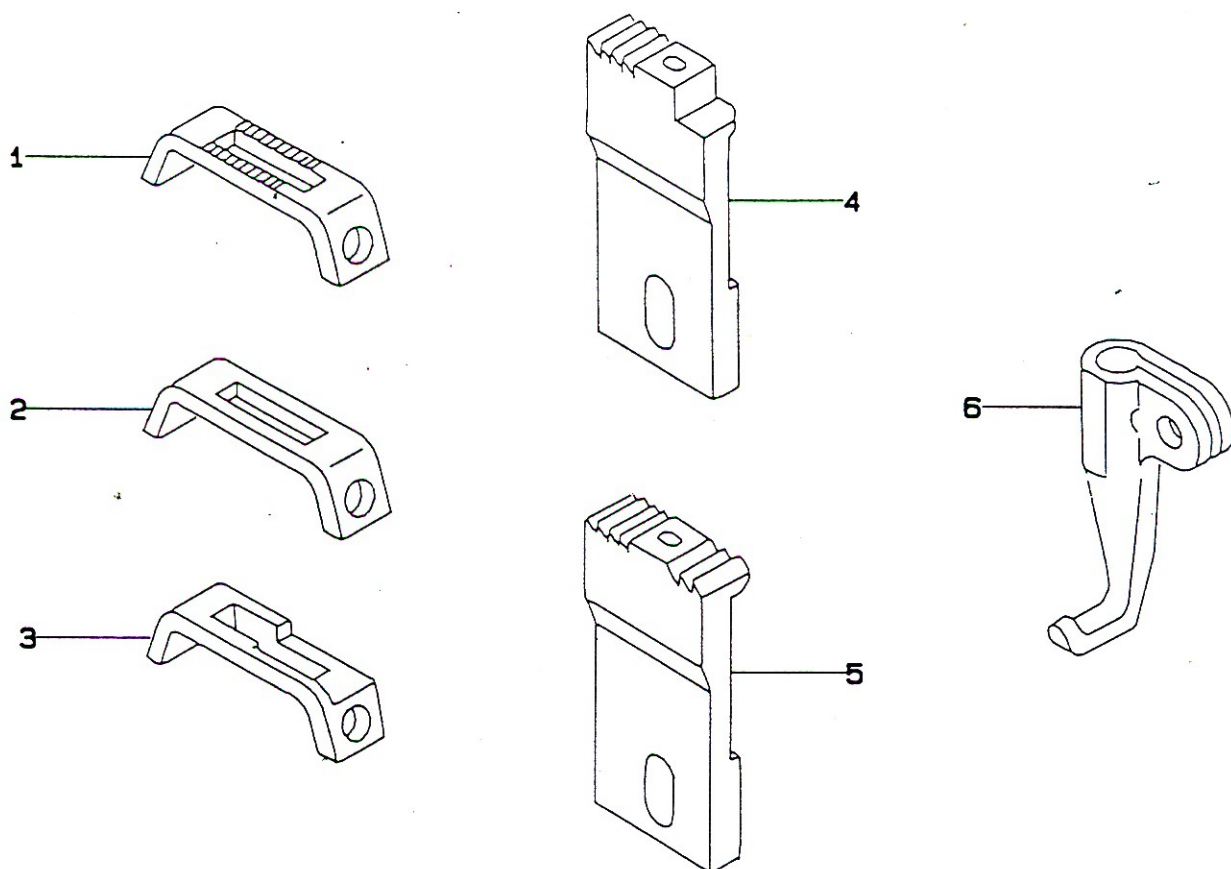
REF.NO	NOTE	PART NO.	DESCRIPTION	ヒンメイ	Qty
1		212-30602	HANGING ROD	ツリボウ	1
2		210-27503	BAR CONNECTION	ツリボウタマ	1
3		212-30701	SPRING	アツリボウウツシハネ	1
4		B3418-245-000	SPRING HOLDER	ヒサアケテコハネウケ	1
5		SD-0790601-SP	HINGE SCREW D=7.94 H=6	タネシ D=7.94 H=6	1
6		NS-6620310-SP	NUT 3/16-32	ロツカクナツ 3/16-32	1
7		SS-7110730-SP	SCREW 11/64-40 L= 6.5	マルヒラネシ 11/64-40 L=6.5	1
8		B3420-245-0A0	KNEE LIFTER ASM.	ヒサアケソウチクミ	1
9		B3420-245-000	MAIN SHAFT	シュシク	(1)
10		B3422-245-000	KNEE LIFTER PLATE ROD	ヒサアケタチシク	(1)
11		B3423-245-000	KNEE PRESS ROD HOLDER	ササエ	(2)
12		B3433-141-H0A	BRACKET	ヒサアケタチシクホルダー	(1)
13		B3434-141-H00	BRACKET	トメタマ	(1)
14		B3424-141-H00	MOUNTING BRACKET	マカリウデササエ タマ	(1)
15		B3425-141-H00	MOUNTING BRACKET SET SCREW	トメネシ	(3)
16		B3424-245-000	KNEE LIFTER PLATE ARM	マカリウデ	(1)
17		B3425-245-000-A	SPRING	ヒサアケガイテン トメハネ	(1)
18		SS-9182010-SN	SCREW 9/32-20 L=20	ロツカクホル 9/32-20 L=20	(2)
19		SK-1483200-SE	WOOD SCREW D=4.8 L=32	サラモクネシ D=4.8 L=32	4
20		B3431-552-000-A	KNEE PRESS PLATE COVER	ヒサアテカハ	1
21		110-24403	RUBBER	ヒサアテ ユム	1
22		110-23702	KNEE PRESS PLATE	ヒサアテ	1
23		110-23801	KNEE PRESS PLATE HOLDER	ヒサアテササエ	1
24		SS-9151540-SR	SCREW 15/64-28 L=15	ロツカクホル 15/64-28 L=15	1
25		B8131-019-000	CHAIN	クサリ	1
26		B8133-019-000	S SHAPED HOOK	スカタ カナク	(2)

10. THREAD STAND COMPONENTS
糸立装置関係



REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ シ ム イ	Qty
1		B3301-012-0A0	THREAD STAND ASM.	イトタテ ソーチ クミ	1
2		B3307-012-000	THREAD GUIDE	イトタテ イトアンナイ	(2)
3		B3310-012-000	POSITION CUP SET SCREW	イトタテ イトアンナイ シメネジ	(1)
4		WS-0641560-KR	SPRING WASHER 6.4X11.9X1.5	ハネサカネ 6.4X11.9X1.5	(1)
5		B3309-012-000	POSITION CUP	イトタテ イトアンナイ マワリトメ	(1)
6		B3308-012-000	ROD WASHER	イトタテ イトアンナイウケ	(1)
7		B3306-012-000	SPOOL ROD	イトタテ ウイカン	(1)
8		NM-6061061-SE	NUT M6	ロツカクナツト M6 10X11.5X10	(1)
9		B3302-012-000	SPOOL REST ROD	イトタテ シタカン	(1)
10		B3312-012-000	SPOOL RETAINER	イトマキ フレトメ	(2)
11		B3305-012-000	SPOOL PIN	イトマキ ウケホ	(2)
12		B3301-012-000	SPOOL REST CUSHION	イトマキウケ	(2)
13		111-83209	SPOOL REST	イトマキ ウケ	(1)
14		WP-0560860-SE	WASHER 5.6X12X0.8	ヒラサカネ 5.6X12X0.8	(2)
15		WS-0531060-KR	SPRING WASHER 5.3X8.3X1	ハネサカネ 5.3X8.3X1	(2)
16		NS-6123881-SE	NUT 3/16-28	ロツカクナツト 3/16-28	(2)
17		SM-9061080-SE	SCREW M6 L=10	ロツカクネルト M6 L=10	(1)
18		NM-6100663-SE	NUT M10	ロツカクナツト M10 3ｼﾂ	(2)
19		SK-3452000-SE	WOOD SCREW D=4.5 L=20	マルモクネジ D=4.5 L=20	(3)
20		B3301-012-000	SPOOL STAND	イトタテタイ	(1)
21		WS-1002560-KR	SPRING WASHER 10X18X2.5	ハネサカネ 10X18X2.5	(1)

11. GAUGE COMPONENTS
ゲージ関係



REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ	ン	メ	イ	Qty
1	#01	212-22104	THROAT PLATE	ハリイタ (JAMケ)				1
2	#01	212-22005	THROAT PLATE	ハリイタ				1
3	#01	212-22203	THROAT PLATE	ハリイタ				1
4	#01	212-25107	FEED DOG (OPTION)	オクリハ*	オプ	ショ	ン	1
5	#01	212-25008	FEED DOG	オクリハ*				1
6	#01	212-31006	WALKING FOOT	ウワオクリアシ				1

Note (注記) #01...OPTION

オプショ

IMPORTANT SAFETY INSTRUCTIONS

Congratulations on your purchase. **TAKING** machine.

To get the most out of the many functions of this machine and operate it in safety, it is necessary to use this machine correctly.

Please read this Instruction Manual carefully before use. We hope you will enjoy the use of your machine for a long time. Please remember to keep this manual in a safe place.

1. Observe the basic safety measures, including, but not limited to the following ones, whenever you use the machine.
2. Read all the instructions, including, but not limited to this Instruction Manual before you use the machine. In addition, keep this Instruction Manual so that you may read it at anytime when necessary.
3. Use the machine after it has been ascertained that it conforms with safety rules/standards valid in your country.
4. All safety devices must be in position when the machine is ready for work or in operation. The operation without the specified safety devices is not allowed.
5. This machine shall be operated by appropriately-trained operators.
6. For your personal protection, we recommend that you wear safety glasses.
7. For the following, turn off the power switch or disconnect the power plug of the machine from the receptacle.
 - 7-1 For threading needle(s), looper, spreader etc. and replacing bobbin.
 - 7-2 For replacing part(s) of needle, presser foot, throat plate, looper, spreader, feed dog, needle guard, folder, cloth guide etc.
 - 7-3 For repair work.
 - 7-4 When leaving the working place or when the working place is unattended.
 - 7-5 When using clutch motors without applying brake, it has to be waited until the motor stopped totally.
8. If you should allow oil, grease, etc. used with the machine and devices to come in contact with your eyes or skin or swallow any of such liquid by mistake, immediately wash the contacted areas and consult a medical doctor.

9. Tampering with the live parts and devices, regardless of whether the machine is powered, is prohibited.
10. Repair, remodeling and adjustment works must only be done by appropriately trained technicians or specially skilled personnel. Only spare parts designated by JUKI can be used for repairs.
11. General maintenance and inspection works have to be done by appropriately trained personnel.
12. Repair and maintenance works of electrical components shall be conducted by qualified electric technicians or under the audit and guidance of specially skilled personnel.

Whenever you find a failure of any of electrical components, immediately stop the machine.
13. Before making repair and maintenance works on the machine equipped with pneumatic parts such as an air cylinder, the air compressor has to be detached from the machine and the compressed air supply has to be cut off. Existing residual air pressure after disconnecting the air compressor from the machine has to be expelled. Exceptions to this are only adjustments and performance checks done by appropriately trained technicians or specially skilled personnel.
14. Periodically clean the machine throughout the period of use.

15. Grounding the machine is always necessary for the normal operation of the machine. The machine has to be operated in an environment that is free from strong noise sources such as high-frequency welder.
16. An appropriate power plug has to be attached to the machine by electric technicians. Power plug has to be connected to a grounded receptacle.

17. The machine is only allowed to be used for the purpose intended. Other used are not allowed.
18. Repair or modify the machine in accordance with the safety rules/standards while taking all the effective safety measures. JUKI assumes no responsibility for damage caused by remodeling or modification of the machine.

19. Warning hints are marked with the two shown symbols.



Danger of injury to operator or service staff



Items requiring special attention

FOR SAFE OPERATION



1. Keep your hands away from needle when you turn ON the power switch or while the machine is in operation.
2. During operation, be careful not to allow your or any other person's head or hands to come close to the thread take-up, handwheel, V-belt, bobbin winder and motor. Also, do not place anything close to them.
3. Do not operate your machine with the finger guard, belt cover and any other protectors removed.
4. Before tilting the machine head, be sure to confirm that the head support bar is properly attached to your machine head.
5. Before tilting the machine or removing the V belt, be sure to turn OFF the power switch and confirm that the motor of the sewing machine stops.
6. Tilt the machine head after removing the hook for the knee lifter.
7. When having tilted the machine head, wipe out oil on the bed underside, the top face of bed support and hinge area, and then raise up the machine head.



8. To ensure safety, never operate the machine with the ground wire for the power supply removed.
9. When inserting/removing the power plug, the power switch has to be turned OFF in advance.
10. In time of thunder and lightening, stop your work and disconnect the power plug from the receptacle so as to ensure safety.
11. If the machine is suddenly moved from a cold place to a warm place, dew condensation may be observed. In this case, turn ON the power to the machine after you have confirmed that there is no danger of water drops in the machine.
12. Turn OFF the power to the machine in the event of a power failure.
13. Do not allow the power cord to trail on the floor.

IMPORTANT SAFETY INSTRUCTIONS

Congratulations on your purchase. **TAKING** machine.

To get the most out of the many functions of this machine and operate it in safety, it is necessary to use this machine correctly.

Please read this Instruction Manual carefully before use. We hope you will enjoy the use of your machine for a long time. Please remember to keep this manual in a safe place.

1. Observe the basic safety measures, including, but not limited to the following ones, whenever you use the machine.
2. Read all the instructions, including, but not limited to this Instruction Manual before you use the machine. In addition, keep this Instruction Manual so that you may read it at anytime when necessary.
3. Use the machine after it has been ascertained that it conforms with safety rules/standards valid in your country.
4. All safety devices must be in position when the machine is ready for work or in operation. The operation without the specified safety devices is not allowed.
5. This machine shall be operated by appropriately-trained operators.
6. For your personal protection, we recommend that you wear safety glasses.
7. For the following, turn off the power switch or disconnect the power plug of the machine from the receptacle.
 - 7-1 For threading needle(s), looper, spreader etc. and replacing bobbin.
 - 7-2 For replacing part(s) of needle, presser foot, throat plate, looper, spreader, feed dog, needle guard, folder, cloth guide etc.
 - 7-3 For repair work.
 - 7-4 When leaving the working place or when the working place is unattended.
 - 7-5 When using clutch motors without applying brake, it has to be waited until the motor stopped totally.
8. If you should allow oil, grease, etc. used with the machine and devices to come in contact with your eyes or skin or swallow any of such liquid by mistake, immediately wash the contacted areas and consult a medical doctor.

9. Tampering with the live parts and devices, regardless of whether the machine is powered, is prohibited.
10. Repair, remodeling and adjustment works must only be done by appropriately trained technicians or specially skilled personnel. Only spare parts designated by JUKI can be used for repairs.
11. General maintenance and inspection works have to be done by appropriately trained personnel.
12. Repair and maintenance works of electrical components shall be conducted by qualified electric technicians or under the audit and guidance of specially skilled personnel.
Whenever you find a failure of any of electrical components, immediately stop the machine.
13. Before making repair and maintenance works on the machine equipped with pneumatic parts such as an air cylinder, the air compressor has to be detached from the machine and the compressed air supply has to be cut off. Existing residual air pressure after disconnecting the air compressor from the machine has to be expelled. Exceptions to this are only adjustments and performance checks done by appropriately trained technicians or specially skilled personnel.
14. Periodically clean the machine throughout the period of use.

15. Grounding the machine is always necessary for the normal operation of the machine. The machine has to be operated in an environment that is free from strong noise sources such as high-frequency welder.
16. An appropriate power plug has to be attached to the machine by electric technicians. Power plug has to be connected to a grounded receptacle.

17. The machine is only allowed to be used for the purpose intended. Other used are not allowed.
18. Repair or modify the machine in accordance with the safety rules/standards while taking all the effective safety measures. JUKI assumes no responsibility for damage caused by remodeling or modification of the machine.

19. Warning hints are marked with the two shown symbols.



Danger of injury to operator or service staff



Items requiring special attention

*marcelo
roan*

INSTRUCTION MANUAL AND SPARE PARTS

FOR

MODEL 341N

CONTENTS

BEFORE OPERATION	1
SPECIFICATIONS	1
1. SETTING UP THE SEWING MACHINE	2
2. LUBRICATION	2
3. INSTALLING THE THREAD STAND	3
4. INSTALLING THE BELT COVER AND THE BOBBIN WINDER	3
5. ATTACHING THE NEEDLE	3
6. ATTACHING/REMOVING THE BOBBIN CASE	3
7. WINDING A BOBBIN	4
8. PLACING A BOBBIN IN THE BOBBIN CASE	4
9. THREADING THE MACHINE HEAD	4
10. ADJUSTING THE STITCH LENGTH	5
11. THREAD TENSION	5
12. THREAD TAKE-UP SPRING	5
13. ADJUSTING THE PRESSURE OF THE PRESSER FOOT	6
14. ADJUSTING THE PRESSER FOOT AND THE WALKING FOOT	6
15. HEIGHT OF THE FEED DOG	7
16. NEEDLE-TO-HOOK RELATIONSHIP	7
17. ADJUSTING THE NEEDLE GUARD OF THE HOOK	8
18. ADJUSTING THE BOBBIN CASE OPENING LEVER	8
19. ADJUSTING THE LONGITUDINAL POSITION OF THE NEEDLE BAR FRAME	8
20. SAFETY MECHANISM	9
21. REPLACING THE TIMING BELT	9
22. MOTOR PULLEY AND V-BELT	10
23. TROUBLE IN SEWING AND CORRECTIVE MEASURES	10

BEFORE OPERATION



CAUTION

Check the following so as to prevent maloperation of and damage to the machine.

- Before you put the machine into operation for the first time after the set-up, clean it thoroughly. Remove all dust gathering during transportation and oil it well.
- Confirm that voltage has been correctly set. Confirm that the power plug has been properly connected to the power supply.
- Never use the machine in the state where the voltage type is different from the designated one.
- The direction of normal rotation of the machine is counterclockwise as observed from the pulley side. Take care not to allow the machine to rotate in the reverse direction.
- When tilting the machine head, tilt it after removing the knee lifter hook.
- For a test run, remove the bobbin case and the needle thread.
- For the first month, run the machine at a speed of 1,800 s.p.m. or less.
- Operate the handwheel after the machine has totally stopped.

SPECIFICATIONS

Type of sewing machine head	Cylinder-bed, 1-needle, unison-feed lockstitch machine (with a vertical-axis hook)
Application	Medium- to heavy-weight materials
Sewing speed	Max. 2,000 s.p.m
Stitch length	Max. 6 mm
Lift of presser foot	By hand lifter: 8.5 mm, By knee lifter: 15 mm
Thread take-up lever	Slide type thread take-up
Needle bar stroke	33.36 mm
Needle	DP × 17
Count of needle to be used	#14 through #24 (standard: #23)
Count of thread to be used	#50 through #8
Stitch adjusting method	By dial
Lubrication method	By an oiler
Motor to be used	400 W clutch motor (4P)
Lubricating oil	New Defrix Oil No. 1

Noise

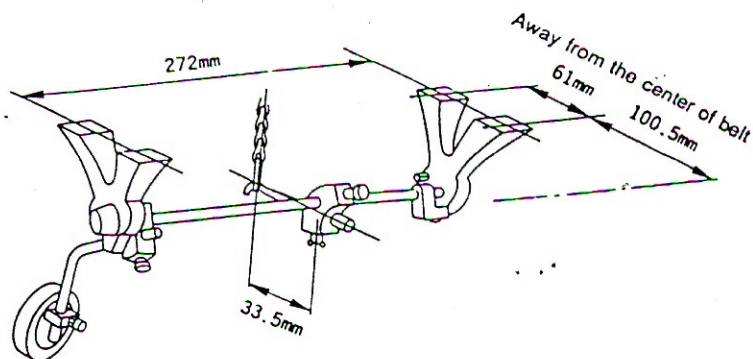
Workplace-related noise at sewing speed

$n = 1,550 \text{ min}^{-1}$: L_{PA} 84 dB(A)

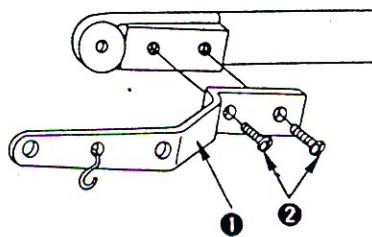
Noise measurement according to DIN 45635-48-A-1.

1. SETTING UP THE SEWING MACHINE

Mounting the knee lifter



(Caution) The knee lifter should be mounted before the motor is installed.



When using the knee lifting pedal, attach knee lifter bracket A ① in place using screws ② as illustrated in the figure.

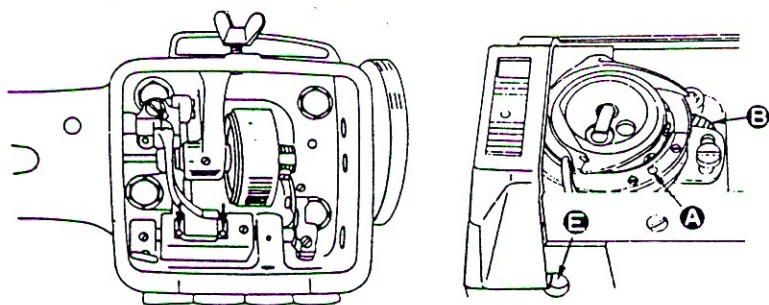
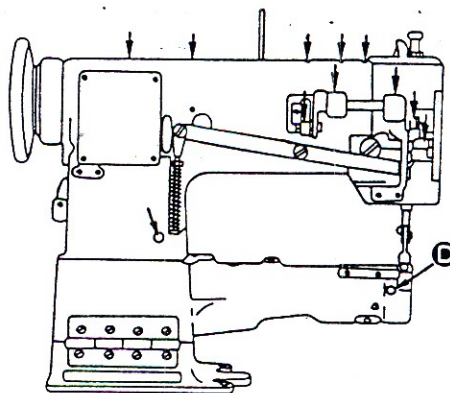
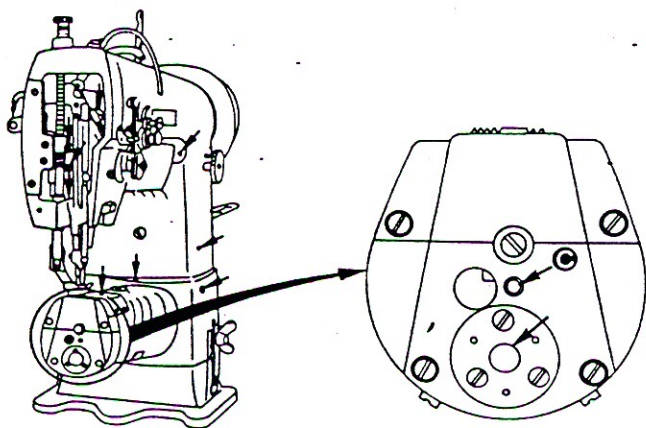
(Caution) Knee lifter bracket ① and screws ② are supplied with the machine in the accessory box.

2. LUBRICATION



WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



★ Before starting the sewing machine

Prior to operation, apply adequate amount of oil to the points marked with the arrows.

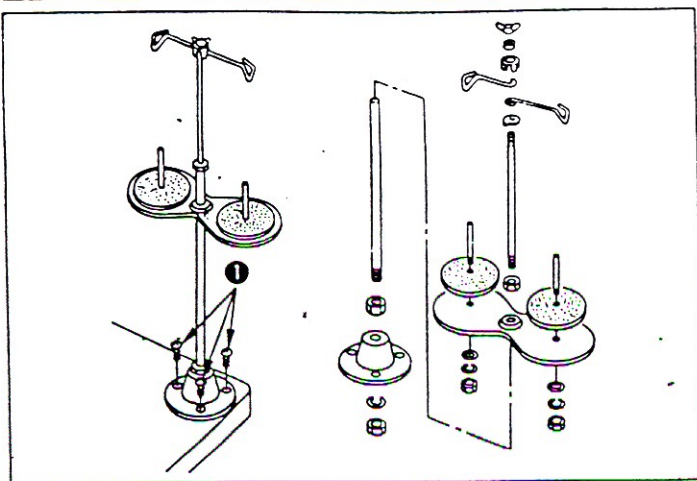
★ Lubricating the hook and hook shaft saddle

Shift the slide plate, and apply two or three drops of oil every day to the hole shown with the arrow A. And four or five drops of oil every day to the felt shown with the arrow E.

★ Lubricating the feed bar

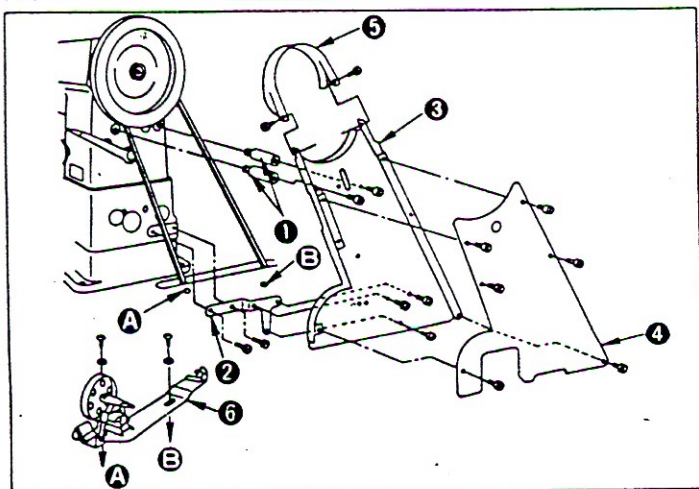
Prior to operation, apply two or three drops of oil to the holes shown with the arrows C, D and E without fail.

3. INSTALLING THE THREAD STAND



Assemble the thread stand, and install it on the far right-hand side edge of the table using three screws ①

4. INSTALLING THE BELT COVER AND THE BOBBIN WINDER

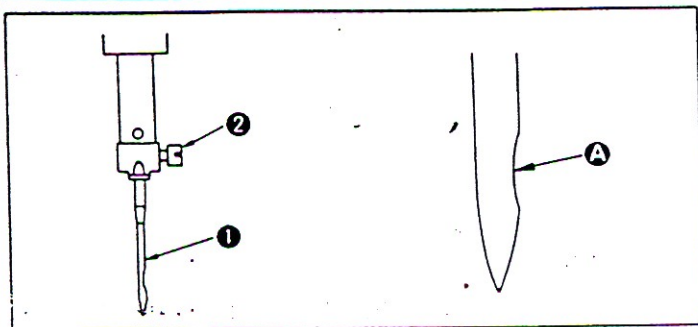


WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

- 1) Drill guide holes A and B for wooden screws to be used in the table.
- 2) Insert belt cover support ① into the tapped hole in the machine arm.
- 3) Install belt cover support plate ② on the machine head.
- 4) Attach belt cover ③ to support ① and support plate ②.
- 5) Fit bobbin winder ⑥ in belt cover ③, and adjust the position of the bobbin winder properly.
- 6) Fix bobbin winder ⑥ on the table.
- 7) Put the V belt on the handwheel. Attach rid ④ of the belt cover and top cover ⑤ in place.

5. ATTACHING THE NEEDLE



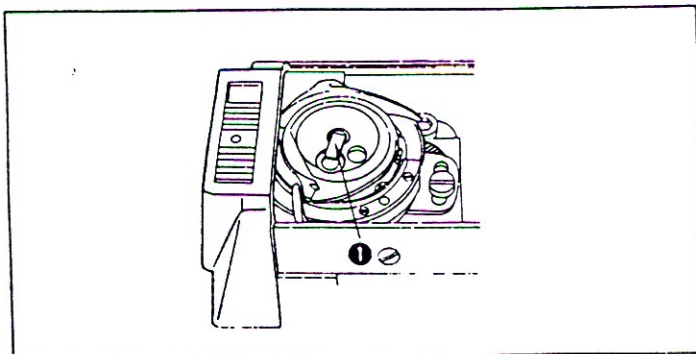
WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

- Turn OFF the power to the motor.

- 1) Turn the handwheel to move the needle bar up to its highest position.
- 2) Loosen needle clamp screw ②. Hold needle ① so that its indented part A faces exactly to the right.
- 3) Insert the needle into the needle bar until it will go no further.
- 4) Securely tighten the needle clamp screw ②.

6. ATTACHING/REMOVING THE BOBBIN CASE

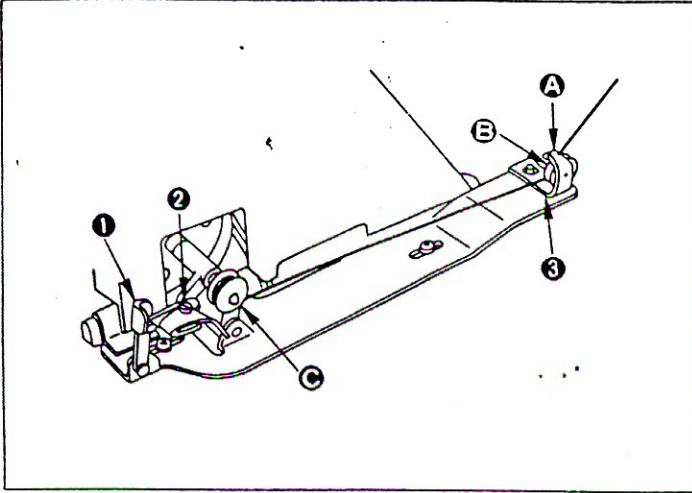


WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

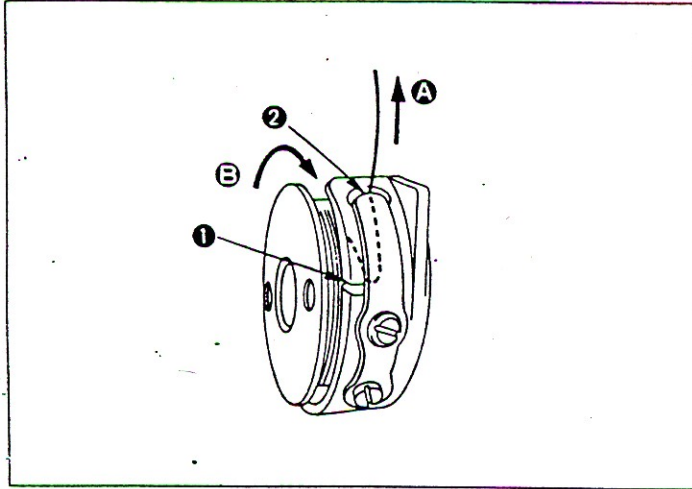
- 1) Raise lever ① of the hook, and remove the bobbin case together with the bobbin in it.
- 2) Fit the bobbin case into the hook driving shaft, and tilt the lever.

7. WINDING A BOBBIN



- 1) Route the thread in the order of **A**, **B** and **C** before winding it round the bobbin several times.
- 2) Set bobbin presser **1** down to bring the winder in contact with the belt.
- 3) Adjust screw **2** to adjust the amount of thread to be wound round the bobbin so that the bobbin is wound with thread about 80% of its capacity. Turn the screw clockwise to increase the amount of thread wound round the bobbin, or counterclockwise to decrease it.
- 4) If thread is wound unevenly round the bobbin, move winder tension adjuster base **3** to the right or left so that thread is evenly wound round the bobbin.
- 5) The moment the bobbin has been wound up, the bobbin presser is released, and the bobbin winder will stop automatically.

8. PLACING A BOBBIN IN THE BOBBIN CASE



WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

- 1) Hold a bobbin so that the end of the thread wound round the bobbin is directed to the right and put it into the bobbin case.
- 2) Pass the thread in threading slit **1** in the bobbin case, route it under the tension spring and draw it out from notch **2**.

(Caution) As long as the bobbin is correctly placed in the bobbin case, pulling the thread in direction **A** makes the bobbin rotate in direction **B**.

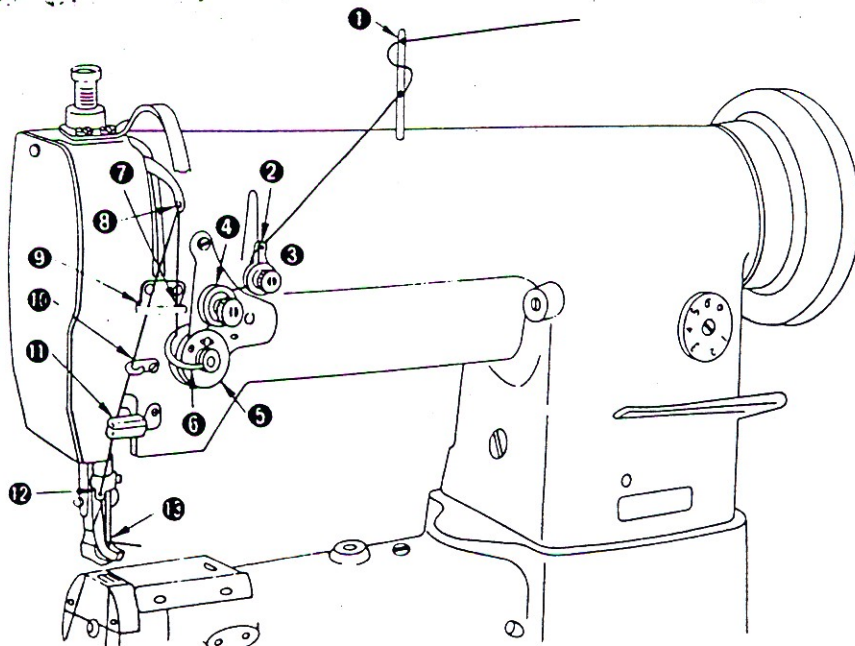
9. THREADING THE MACHINE HEAD



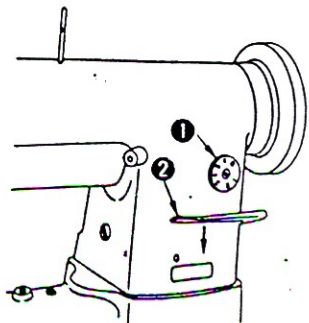
WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

Thread the machine as illustrated in the figure in the order of **1** through **15**.



10. ADJUSTING THE STITCH LENGTH

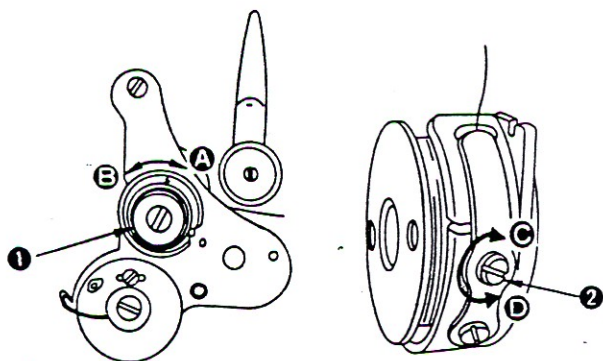


Turn stitch length dial **1** counterclockwise or clockwise to bring the desired value to the top of the dial so that the value is aligned with the pin.

★ Reverse feed stitching

- 1) Push down feed lever **2**.
- 2) The machine performs reverse feed stitching as long as the lever is held depressed.
- 3) The moment you release the lever, the machine resumed the normal stitching mode.

11. THREAD TENSION



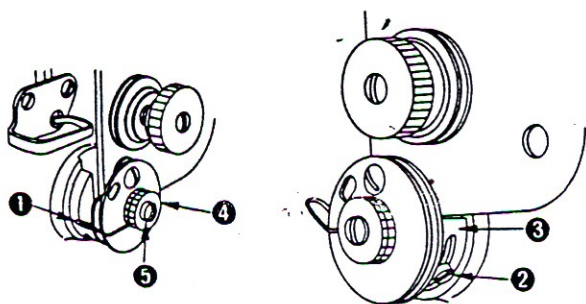
★ Adjusting the needle thread tension

Turn tension nut No. 2 **1** clockwise (toward **A**) to increase the needle thread tension, or counterclockwise (toward **B**) to decrease it.

★ Adjusting the bobbin thread tension

Turn tension screw **2** clockwise (toward **C**) to increase the bobbin thread tension, or counterclockwise (toward **D**) to decrease it.

12. THREAD TAKE-UP SPRING



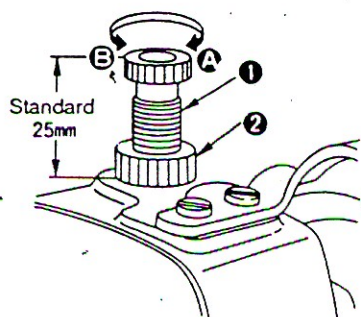
★ To change the stroke of thread take-up spring **1**

- 1) Loosen screw **2** in the stopper, and move stopper **3** to the right or left.
- 2) Move the stopper to the right to increase the stroke of the thread take-up spring, or to the left to decrease it.

★ To change the tension of the thread take-up spring

Loosen nut **4**. Turn spring shaft **5** counterclockwise to increase the tension of the spring, or clockwise to decrease it. Fit a screwdriver in the groove in the spring shaft and turn it until the desired tension is provided.

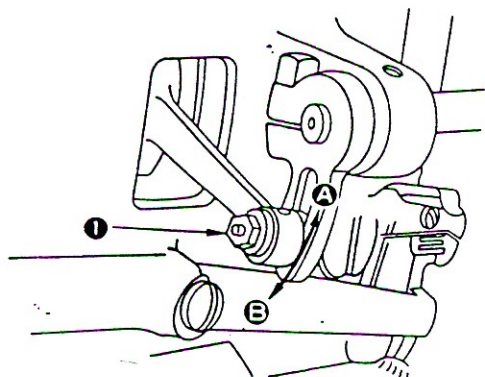
13. ADJUSTING THE PRESSURE OF THE PRESSER FOOT



Adjust the pressure of the presser foot in accordance with the type of material to be used. (Standard height of the pressure spring regulator: 25 mm)

- 1) Turn pressure spring regulator ① clockwise (toward A) to increase the pressure of the presser foot, or counterclockwise (toward B) to decrease it.
- 2) After the adjustment, securely tighten nut ② of the regulator.

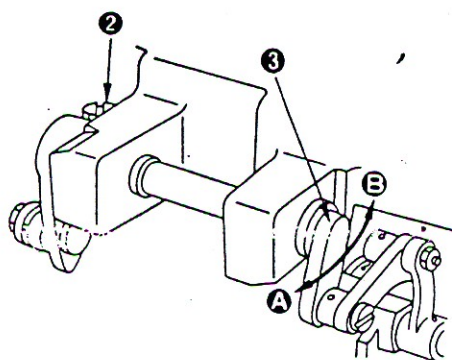
14. ADJUSTING THE PRESSER FOOT AND THE WALKING FOOT



★ Operating height of the walking foot and the presser foot

The operating height of the walking foot and the presser foot has been adjusted to the marker of "1/8" engraved on the top feed crank. A better result may be obtained by adjusting the operating height of the walking foot and the presser foot.

- Loosen nut ①, and change the position of the cam rod boss accordingly.
- Highest position → The stroke is maximized. A
- Lowest position → The stroke is minimized. B

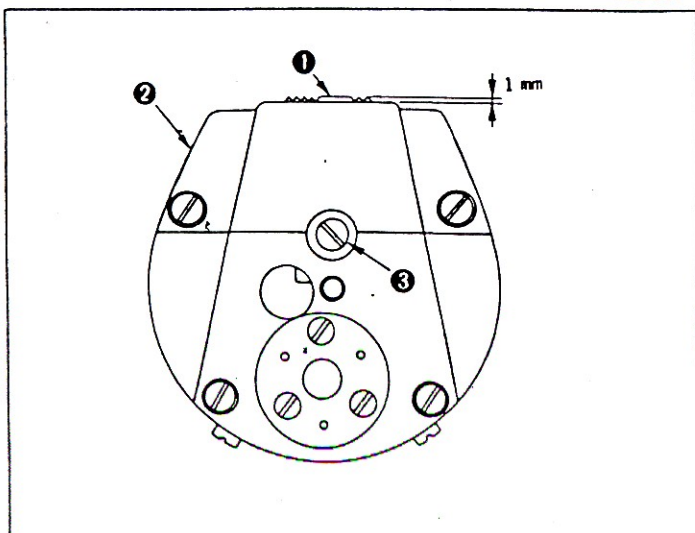


★ Alternate vertical motions of the walking foot and presser foot

The alternate vertical strokes of the walking foot and presser foot are normally equal.

- 1) Loosen screw ② of the top feed crank.
- 2) Bring the thread take-up lever to its highest position, and lower the presser bar lifting lever.
- Move top feed crank ③ to left A to increase the stroke of the presser foot, or to the right B to increase it.

15. HEIGHT OF THE FEED DOG



Feed dog ① has been factory-adjusted to jut out 1 mm from the surface of throat plate ②. When the feed dog height needs to be adjusted according the sewing conditions or after the feed dog is replaced, follow the procedure described below.

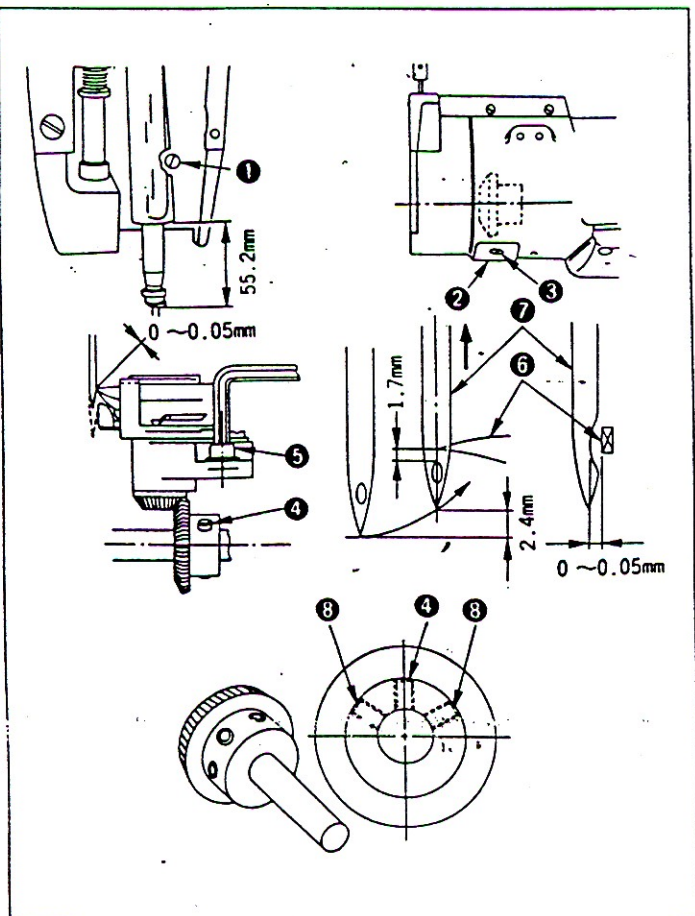
- 1) Maximize the feed dog height.
- 2) Loosen screw ③ in the feed dog.
- 3) Adjust the feed dog height comparatively higher than the standard height, and temporarily fix it at that position.
- 4) Now, adjust the height of the feed dog appropriately, and securely tighten the screw ③ in the feed dog.

16. NEEDLE-TO-HOOK RELATIONSHIP



WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



Adjust the timing between the needle and the hook following the procedure described below.

- 1) Set the feed regulating dial to "3".
- 2) Turn the handwheel to bring the needle bar to the lowest position of its stroke, and loosen needle bar connection screw ①.

★ Determine the height of the needle bar.

- 3) The standard height of the needle bar is obtained when a distance of 1.7 mm is provided between the top end of the needle eyelet and blade point ⑥ of the hook when the needle ascends 2.4 mm from the lowest position of its stroke.

(The lowest position of the needle bar for reference)

Distance from the bottom face of the needle bar frame to the bottom end of the needle bar: 55.2 mm

★ Determine the position of the hook

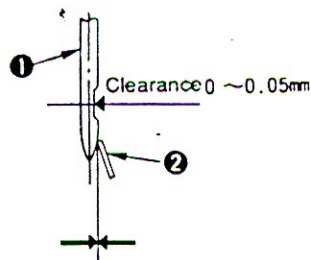
- 4) Loosen screw ③ in the gear cover ②, remove gear cover ② and loosen screws ④ and ⑧ in the large bevel gear.
- 5) In the state described in 3), loosen screw ⑤ in the hook driving shaft saddle and move the hook driving shaft saddle to the right or left until a clearance of 0 to 0.05 mm is provided between the blade point of the hook and needle ⑦. After the adjustment, securely tighten the screw.
- 6) Then, align the blade point of the hook with the center of the needle, and tighten screw ④ in the gear.
- 7) Turn the handwheel clockwise and alternately tighten screws ⑧ little by little.
(Never tighten either screw only.)

7. ADJUSTING THE NEEDLE GUARD OF THE HOOK



WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



After replacing the hook, be sure to confirm the position of the needle guard. The standard position of the needle guard is obtained when needle guard ② lightly comes in contact with the side face of needle ① as illustrated in the figure. If not, adjust the position of the needle guard by bending it accordingly.

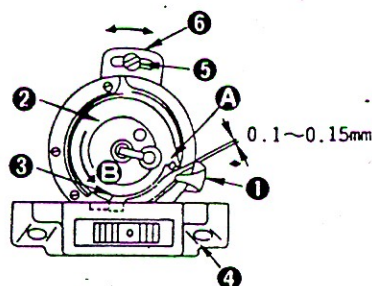
- 1) To bend the needle guard inward, apply a screwdriver to the outside of the needle guard.
- 2) To bend the needle guard outward, apply a screwdriver to the inside of the needle guard.

8. ADJUSTING THE BOBBIN CASE OPENING LEVER



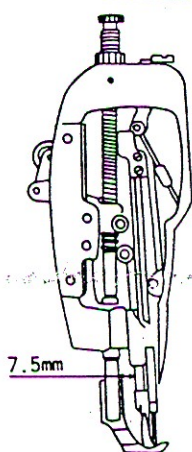
WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



- 1) Turn the handwheel in its normal rotational direction to bring bobbin case opening lever ① to its back end position.
- 2) Turn bobbin case ② in the direction of arrow B until stopper ③ comes in contact with the groove in throat plate ④.
- 3) Loosen screw ⑤ in the bobbin case opening lever adjustment plate and move bobbin case opening lever adjustment plate ⑥ in the direction of the arrow so that a clearance of 0.1 to 0.15 mm is provided between the bobbin case opening lever and protruding section A of the bobbin case.

9. ADJUSTING THE LONGITUDINAL POSITION OF THE NEEDLE BAR FRAME



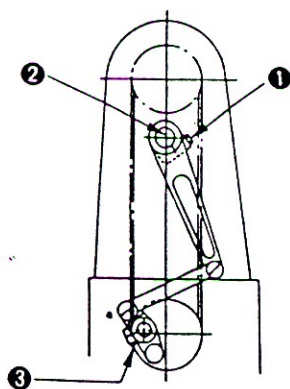
★ Adjusting the relationship between the top feed rod and presser bar

- 1) Set the feed regulating dial to its minimum value.
- 2) Loosen clamping screw ① in the needle bar frame rear arm, and adjust the clearance between the top feed rod and the presser bar to 7.5 mm.

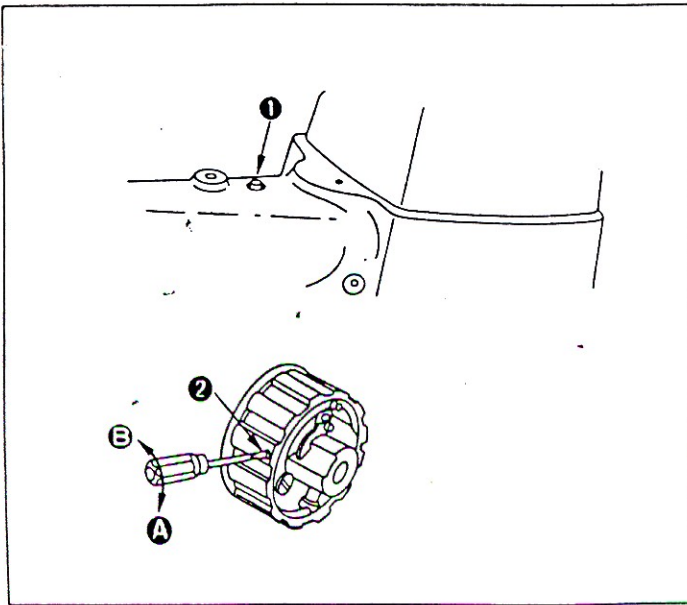
(Caution) Take care not to allow any play in needle bar frame ②.

★ Adjusting the relationship between the feed dog and the needle bar

- 1) Set the feed regulating dial to its minimum value.
- 2) Loosen clamping screw ③ in the feed rock shaft crank.
- 3) Adjust the position of the feed dog so that the needle comes to the center of the needle hole in the feed dog (slightly closer to the operator).



20. SAFETY MECHANISM



WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

If the thread is caught in the hook while the sewing machine is in operation, the safety mechanism actuates to idle the lower sprocket only.

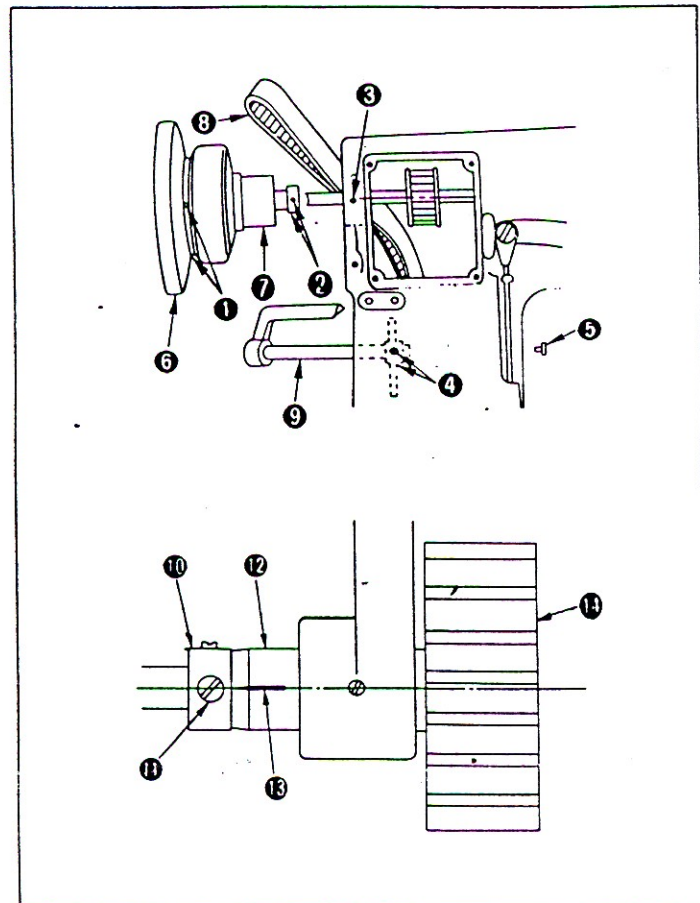
★ How to reset

- 1) Remove the thread caught in the hook.
- 2) Pressing push button ①, strongly turn the pulley in the direction opposite to its normal rotational direction.

★ Safety load

Turn adjustment screw ② in direction ④ (clockwise) to increase the safety load, or in direction ③ (counterclockwise) to decrease it.

21. REPLACING THE TIMING BELT



WARNING:

Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.

★ How to remove the timing belt

- 1) Loosen screw ① in the handwheel, screws ② in main shaft rear bushing (2), screw ③ in the main shaft rear bushing, clamping screws ④ in the feed lever shaft arm and screw ⑤ in the feed lever shaft in the written order.
- 2) Remove handwheel ⑥, and pull out main shaft rear bushing ⑦.
- 3) Draw feed lever shaft ⑨ until a clearance enough to allow timing belt ⑧ to come off is provided.
- 4) Remove the timing belt from the lower sprocket, draw it from the side window and pull out it from the hole in the main shaft rear bushing.

★ How to Install the timing belt

- 1) Installation is carried out analogously in reverse order.
- 2) To adjust the timing between the main shaft and the hook driving shaft, turn the handwheel to bring the thread take-up to its highest dead point and the screw No. 1 ⑩ engraved on the hook driving shaft thrust collar ⑪ with marker line ⑬ engraved on hook driving shaft rear bushing ⑫. In this state, insert the timing belt into lower sprocket ⑪.

22. MOTOR PULLEY AND V BELT

1. Use an M type V belt.
2. The following table show the relationship between the motor pulley, belt length and the rotational speed of the sewing machine.

Rotational speed of sewing machine	Frequency	Outside diameter of motor	Size of V belt
2000 s.p.m	50 Hz	ø115 mm	M57
	60 Hz	ø95 mm	M56

(Caution) The effective diameter of the motor pulley is 5 mm smaller than the outside diameter. When your machine uses a single-phase motor, apply the belt which is 1 inch longer than those given in the table above.

23. TROUBLE IN SEWING AND CORRECTIVE MEASURES

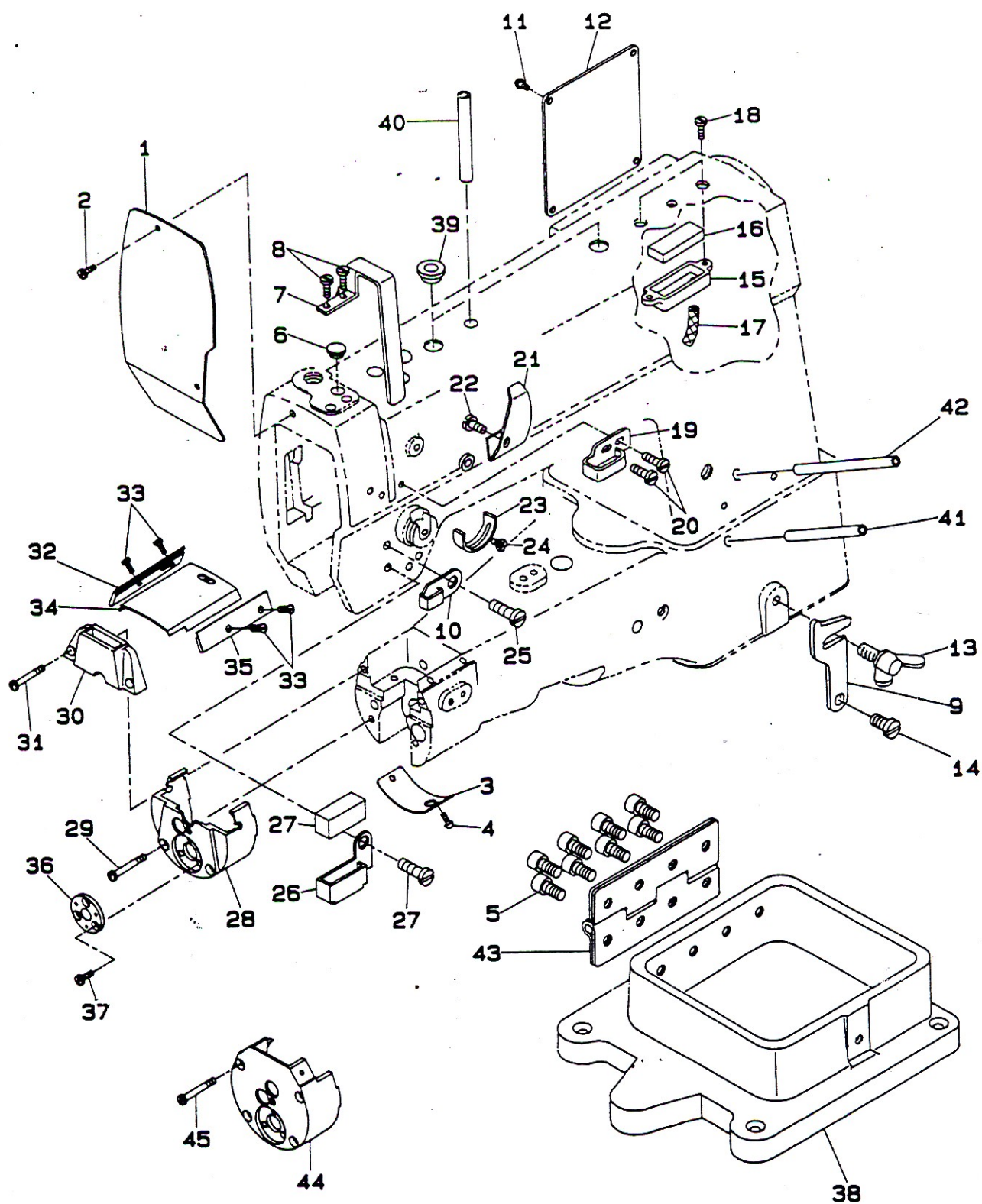
Trouble	Cause	Corrective measures.
1. Thread breakage (Thread frays or wears out.) (Needle thread remains 2 to 3 cm on the wrong side of the cloth.)	① The thread path, needle point, blade point of the hook or the stopper groove in the throat plate has scratches. ② The needle thread tension is too high. ③ The clearance in the bobbin case opening lever is too large. ④ The needle comes in contact with the blade point of the hook. ⑤ The needle thread tension is too low. ⑥ The thread take-up spring has an excessively high tension while it has an excessively small stroke. ⑦ The timing between the needle and hook too early or too late.	- o Remove the scratches on the blade point of the hook using a fine emery paper. Buff up the stopper groove in the throat plate. - o Adjust the needle thread tension properly. - o Decrease the clearance in the bobbin case opening lever. Refer to "18. Adjusting the bobbin case opening lever". - o Refer to "16. Needle-to-hook relationship". - o Adjust the needle thread tension properly. - o Decrease the tension of the thread take-up spring, and increase the stroke of the spring. - o Refer to "16. Needle-to-hook relationship".
2. Stitch skipping	① The clearance between the needle and the blade point of the hook is too large. ② The timing between the needle and hook is too early or too late. ③ The presser foot pressure is too low. ④ The height of the needle bar is inadequate. ⑤ The needle guard of the hook does not function. ⑥ The size of the needle is wrong. ⑦ Defective needle thread path. ⑧ The hook has scratches.	- o Refer to "16. Needle-to-hook relationship". - o Refer to "16. Needle-to-hook relationship". - o Tighten the pressure spring regulator. - o Refer to "16. Needle-to-hook relationship". - o Refer to "17. Adjusting the needle guard of the hook". - o Replace the needle by one which is one count thicker. - o See "9. Threading the machine head". - o Remove the scratches on the blade point of the hook using a fine emery paper.
3. Loose stitches (isolated idling loop)	① The thread path is poorly finished. ② The bobbin fails to rotate smoothly. ③ The clearance in the bobbin case opening lever is too large. ④ The bobbin thread tension is too low. ⑤ The bobbin thread has been wound too tight round the bobbin. ⑥ The forked part of the tension spring of the bobbin case is not threaded.	- o Grind it using a fine emery paper, or buff it up. - o Replace the bobbin, or replace the hook. - o See "18. Adjusting the bobbin case opening lever". - o Properly adjust the bobbin thread tension. - o Decrease the bobbin thread winding tension. - o Correctly thread the bobbin case.

CONTENTS

目次

1. FRAME & MISCELLANEOUS COVER COMPONENTS	1
頭部・外装関係	
2. MAIN SHAFT & THREAD TAKE-UP LEVER COMPONENTS	3
上軸・天秤関係	
3. NEEDLE BAR & HOOK DRIVING SHAFT COMPONENTS	5
針棒・下軸関係	
4. PRESSER BAR COMPONENTS	7
押え棒関係	
5. UPPER FEED MECHANISM COMPONENTS	8
上送り関係	
6. FEED MECHANISM COMPONENTS	9
送り関係	
7. THREAD TENSION COMPONENTS	11
糸調子関係	
8. BELT COVER & BOBBIN WINDER COMPONENTS	12
ベルトカバー・糸巻装置関係	
9. KNEE LIFTER COMPONENTS	13
膝上げ関係	
10. THREAD STAND COMPONENTS	14
糸立装置関係	
11. GAUGE COMPONENTS	15
ゲージ関係	
NUMERICAL INDEX OF PARTS	16
索引	

1. FRAME & MISCELLANEOUS COVER COMPONENTS 頭部・外装関係



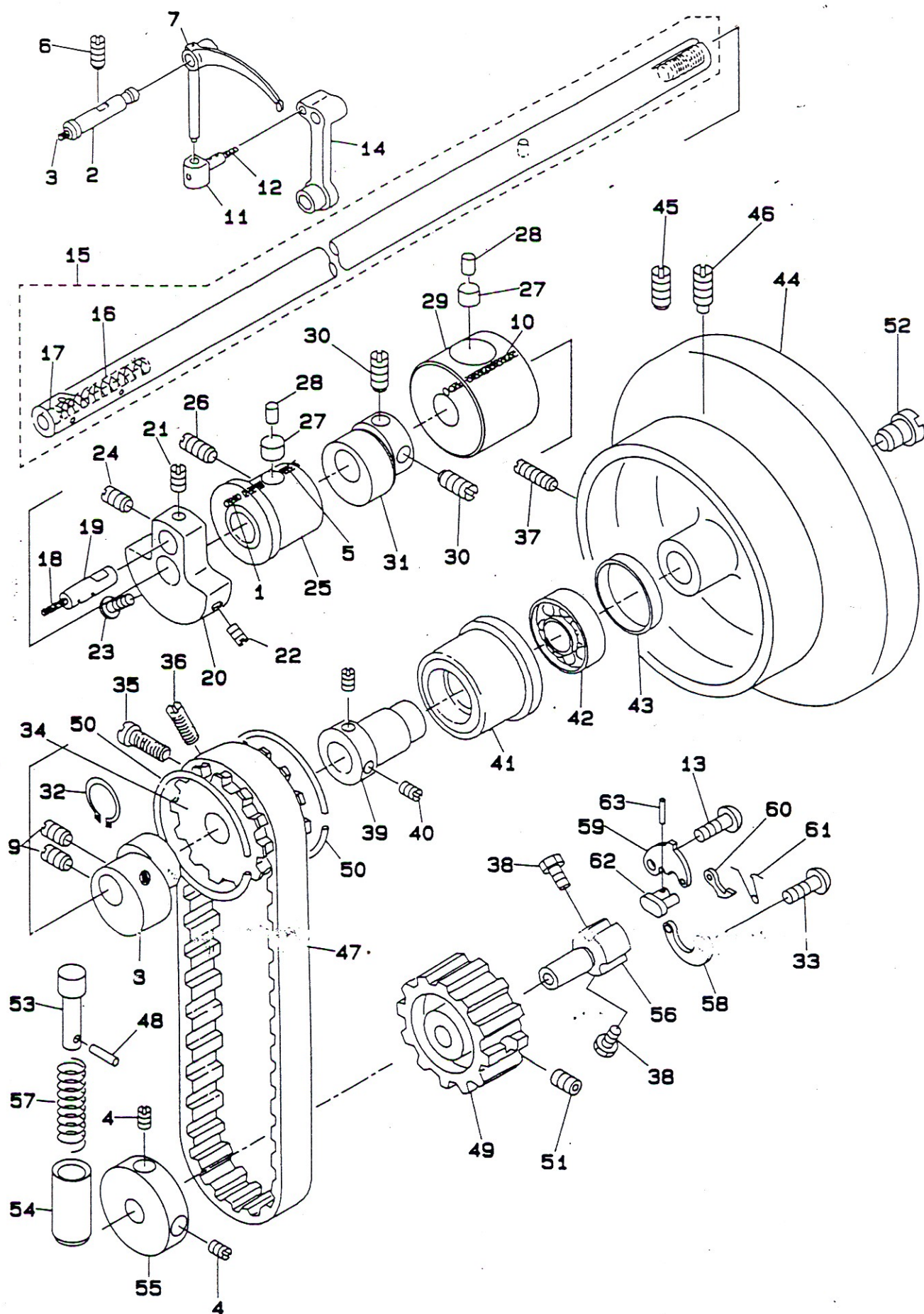
REF.NO	NOTE	PART NO.	DESCRIPTION	ヒンメイ	Qty
1		212-21056	SIDE PLATE ASM.	メンイタ(クミ)	1
2		SS-7090710-SP	SCREW 9/64-40 L= 6.8	マルヒラネジ 9/64-40 L=6.8	2
3		212-20900	GEAR COVER	ハクニルマカハ	1
4		SS-5090610-SP	SCREW 9/64-40 L=6	トラスネジ 9/64-40 L=6	2
5		SM-6082002-SP	SCREW M8 L=20	ロウカクアナボルト M8 L=20	8
6		TA-1250406-R0	RUBBER PLUG	トメセン D=12.5 L=4	1
7		D1158-241-E00	THREAD TAKE-UP LEVER COVER	テンピン カハ	1
8		SS-7150940-SP	SCREW 15/64-28 L=9	マルヒラネジ 15/64-28 L=9	2
9		B1117-246-000	HOOK	カケガネ	1
10		B1130-051-000	FRAME THREAD GUIDE, MIDDLE	イトアンナイ	1
11		SS-7110710-SP	SCREW 11/64-40 L=7	マルヒラネジ 11/64-40 L=7	4
12		212-21205	SIDE PLATE	マトイタ	1
13		B1116-246-000	WING BOLT	カケガネトメ チョウネジ	1
14		SD-0800352-SP	HINGE SCREW D= 8 H= 3.5	タネネジ D=8 H=3.5	1
15		212-23201	OIL PAN	アブラタマリ	1
16		B3503-115-000	OIL RESERVOIR FELT	アブラタマ フィルト (A)	1
17		CQ-2020000-00	OIL WICK	ユジン	0.08
18		SS-7111120-SP	SCREW 11/64-40 L=10.5	マルヒラネジ 11/64-40 L=10.5	2
19		B1129-563-000	FRAME THREAD GUIDE, UPPER	イトアンナイ ウエ	1
20		SS-2090710-SP	SCREW 9/64-40 L=7	マルチラネジ 9/64-40 L=7	2
21		B1140-051-000	TAKE-UP OIL SPLASHER	テンピン ユボイタ	1
22		SS-5090610-SP	SCREW 9/64-40 L=6	トラスネジ 9/64-40 L=6	1
23		B3138-512-000	TAKE-UP SPRING ADJUSTING PLATE	イトトリハネ アンナイ チョーセツハン	1
24		SS-7090520-SP	SCREW 9/64-40 L= 4.5	マルヒラネジ 9/64-40 L=4.5	1
25		SS-2090710-SP	SCREW 9/64-40 L=7	マルチラネジ 9/64-40 L=7	2
26		B1130-528-000	THREAD GUIDE, LOWER	イトアンナイ シタ	1
27		B1131-528-000	FELT	イトアンナイ イトオキ	1
28		B1106-340-000	THROAT PLATE BASE FRAME	ハリイタ タイ	1
29		SS-7113110-SP	SCREW 11/64-40 L=30	マルヒラネジ 11/64-40 L=30	2
30		212-21908	THROAT PLATE	ハリイタ	1
31		SS-7112810-SP	SCREW 11/64-40 L=28	マルヒラネジ 11/64-40 L=28	2
32		B1108-340-000	BED SLIDE SIDE PLATE, LEFT	スハリイタウケ (ヒタリ)	1
33		SS-2090520-SL	SCREW 9/64-40 L=5	マルチラネジ 9/64-40 L=5	4
34		212-20405	BED SLIDE	スハリイタ	1
35		B1114-246-000	BED SLIDE SIDE PLATE, RIGHT	スハリイタウケ (ミキ)	1
36		212-27905	LOWER SHAFT FRONT METAL	シタシクマイメタル	1
37		SS-7110410-SP	SCREW 11/64-40 L=4	マルヒラネジ 11/64-40 L= 4	3
38		212-20207	MACHINE BASE	ハットウケタイ	1
39		B1156-115-000	RUBBER PLUG	ウツシタ アブラタマリ フタ	2
40		PS-0600302-KP	SPRING PIN	スプリングピン	1
41		PS-0600241-00	SPRING PIN 6X24	スプリングピン 6.0X24	1
42		PS-0600602-KP	OIL TUBE	スプリングピン	1
43		B1128-246-000	HINGE	チョウハン	1
44	#01	212-20504	THROAT PLATE BASE FRAME	ハリイタ タイ	1
45	#01	SS-7113110-SP	SCREW 11/64-40 L=30	マルヒラネジ 11/64-40 L=30	4

Note (注記) #01....OPTION

オプション

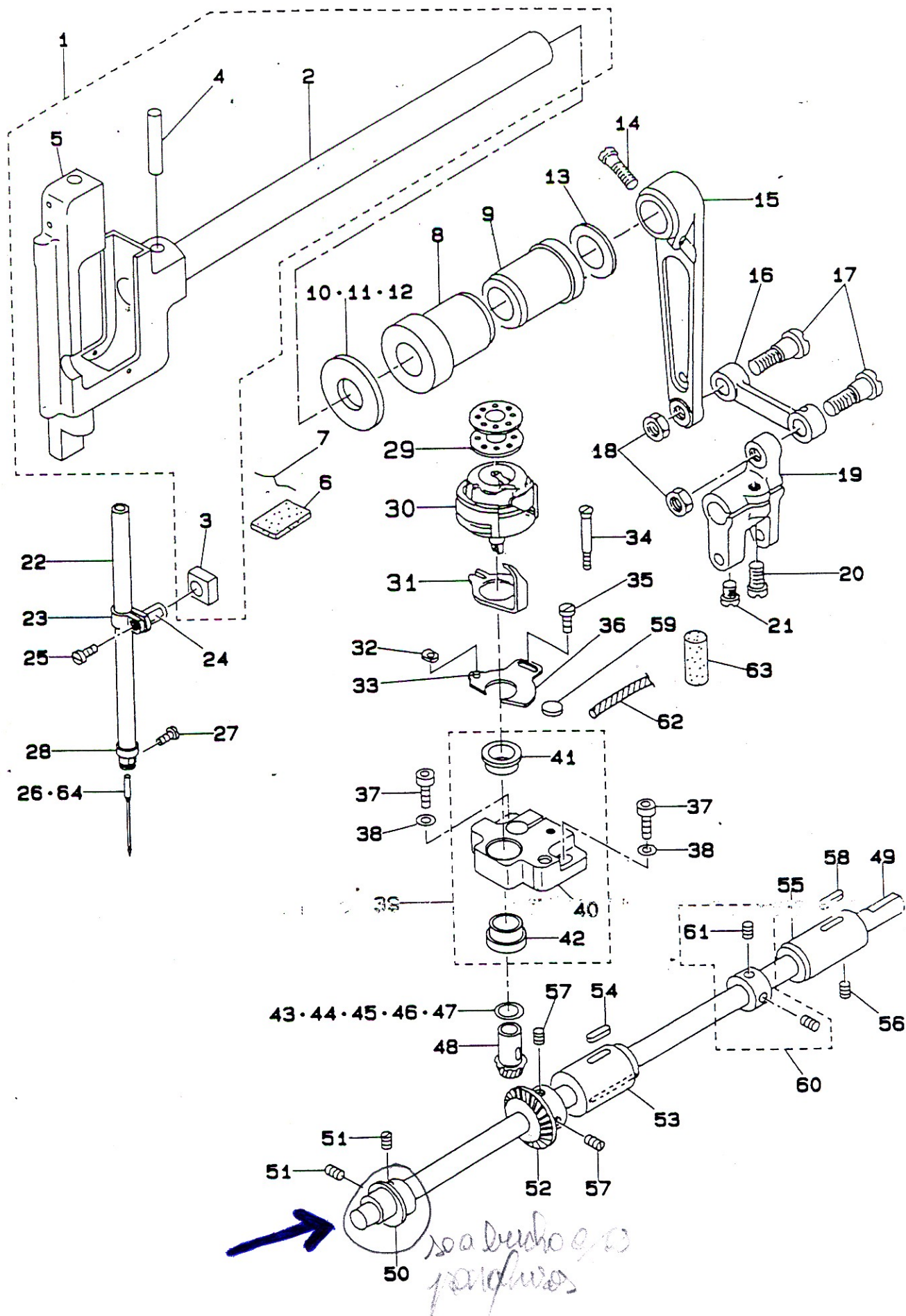
2. MAIN SHAFT & THREAD TAKE-UP LEVER COMPONENTS

上軸・天秤関係



REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ ン メ イ	Qty
1		TA-0500000-RO	PLUG	トメセン	2
2		B1906-051-000	TAKE-UP LEVER PIN	デンヒン ササエシク	1
3		CQ-2020000-00	OIL WICK	ユジン	0.1
4		SS-8150710-SP	SCREW 15/64-28 L=7	トメネジ 15/64-28 L=7	.2
5		CQ-2520000-00	OIL WICK	ユジン	0.1
6		SS-8151550-SP	SCREW 15/64-28 L=15	トメネジ 15/64-28 L=15	1
7		B1905-241-H00	THREAD TAKE-UP LEVER	デンヒン	1
8		B1605-246-000	FEED DRIVE ECCENTRIC CAM	オクリ ハンシン カム	1
9		SS-8661030-SP	SCREW 1/4-40 L=10	トメネジ 1/4-40 L=10	2
10		CQ-2000000-00	OIL WICK	ユジン	0.06
11		B1907-051-000	TAKE-UP LEVER THRUST PIN	デンヒン スライツシク	1
12		CQ-2000000-00	OIL WICK	ユジン	0.1
13		SD-0640322-TP	HINGE SCREW D= 6.35 H= 3.2	タネネジ D=6.35 H=3.2	1
14		D1408-241-E00	NEEDLE BAR CRANK ROD	ハリホウ クランクロッド	1
15		B1201-340-0A0	MAIN SHAFT ASM.	ウツシク (クミ)	1
16		CQ-3030000-00	OIL WICK	ユジン	(0.1)
17		TA-0500601-M0	PLUG D=5X5.4 L=6	トメセン D=5X5.4 L=6	(1)
18		CQ-5050000-00	OIL WICK	ユジン	0.1
19		B1210-051-000	NEEDLE BAR CRANK PIN	ハリホウ クランクピン	1
20		B1206-051-000	COUNTERWEIGHT	ツリアイモリ	1
21		SS-8680540-SP	SCREW 9/32-28 L= 4.5	トメネジ 9/32-28 L=4.5	1
22		SS-8681650-TP	SCREW 9/32-28 L=16	トメネジ 9/32-28 L=16	1
23		SS-7681750-TP	SCREW 9/32-28 L=16.5	マルヒラネジ 9/32-28 L=16.5	1
24		SS-8680730-SP	SCREW 9/32-28 L=7	トメネジ 9/32-28 L=7	1
25		B1202-051-000	MAIN SHAFT BUSHING, FRONT	ウツシク マイメタル	1
26		SS-8151550-SP	SCREW 15/64-28 L=15	トメネジ 15/64-28 L=15	1
27		B1203-051-000	OIL FELT	ウツシク マイメタル フィルト	2
28		B3517-009-000	OIL FELT REAR	ユーブ アフラタメ フィルト	2
29		B1203-340-000	BUSHING, INTERMEDIATE	ウツシク カナメタル	1
30		SS-8660610-TP	SCREW 1/4-40 L=6	トメネジ 1/4-40 L=6	2
31		D1450-055-B00	UPPER FEED DRIVING CAM	ウツオクリカム	1
32		RC-2421211-KP	RETAINING RING	クリンク	1
33		SS-7661110-TH	SCREW 1/4-40 L=11	マルヒラネジ 1/4-40 L=11	1
34		B1302-051-000	SPROCKET WHEEL, UPPER	ウツスプロケット	1
35		SS-7681750-TP	SCREW 9/32-28 L=16.5	マルヒラネジ 9/32-28 L=16.5	1
36		SS-8681650-TP	SCREW 9/32-28 L=16	トメネジ 9/32-28 L=16	1
37		SS-8151550-SP	SCREW 15/64-28 L=15	トメネジ 15/64-28 L=15	1
38		SS-6660710-TP	SCREW 1/4-40 L=7	ヒラネジ 1/4-40 L=7	2
39		B1217-051-000	MAIN SHAFT BUSHING (2), REAR	ウツシク ウツロメタル (2)	1
40		SS-8150710-SP	SCREW 15/64-28 L=7	トメネジ 15/64-28 L=7	2
41		B1216-051-000	MAIN SHAFT BUSHING 1, REAR	ウツシク ウツロメタル (1)	1
42		SB-1150002-00	BEARING	ベアリング	1
43		B1218-051-000	REAR BEARING RETAINING COLLAR	ウツシク ウツロベアリング トメ	1
44		B1227-340-000	HAND WHEEL	ハズミクメル	1
45		SS-8151550-SP	SCREW 15/64-28 L=15	トメネジ 15/64-28 L=15	1
46		SS-8151780-SP	SCREW 15/64-28 L=17.0	トメネジ 15/64-28 L=17	1
47		212-23300	TIMING BELT	タイミンク ベルト	1
48		PS-0200102-KH	SPRING PIN 2.0 X 10	スプリング ピン 2.0X10	1
49		212-23706	SPROCKET WHEEL, LOWER	ウツスプロケット	1
50		B1214-019-000	SPROCKET RING	スプロケット リンク	2
51		SS-8090410-SP	SCREW 9/64-40 L= 3.5	トメネジ 9/64-40 L=3.5	2
52		SS-7701010-SP	SCREW 5/16-24 L=10	マルヒラネジ 5/16-24 L=10	1
53		212-23409	SAFETY CLUTCH PUSH BUTTON	アンセツソウチオシホタン	1
54		212-23508	PUSH BUTTON CYLINDER	アンセツソウチオシホタンツツ	1
55		B1301-340-000	SAFETY CLUTCH DISK	アンセツソウチインハン	1
56		105-03605	SAFETY BASE	アンセツソウチウケ	1
57		B1639-051-000	SPRING	オシホタン ハネ	1
58		B1305-055-000-A	SAFETY CLUTCH SPRING	アンセツソウチ ハネ	1
59		B1307-055-000	SAFETY CLUTCH HOOK	アンセツソウチ ツメ	1
60		B1308-055-000	SAFETY CLUTCH COUNTER-HOOK	アンセツソウチ キヤク ツメ	1
61		B1309-055-000	COUNTER-HOOK SPRING	アンセツソウチ キヤクツメ ハネ	1
62		B1310-055-000	SAFETY CLUTCH SMALL LINK	アンセツソウチ ショーリンク	1
63		B1314-055-000	SAFETY CLUTCH SMALL LINK PIN	アンセツソウチ ショーリンク ピン	1

3. NEEDLE BAR & HOOK DRIVING SHAFT COMPONENTS 針棒・下軸関係

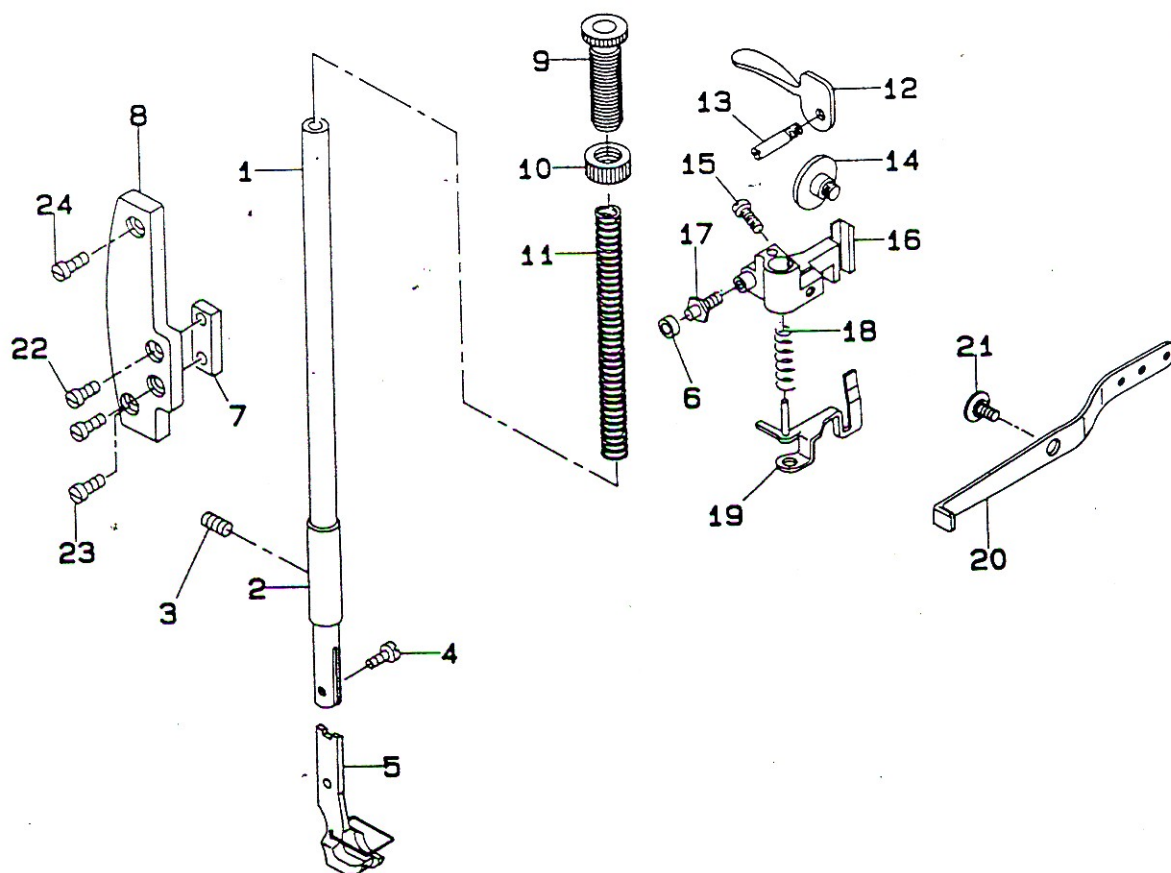


REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ シ メ イ	Qty
1		212-23854	NEEDLE BAR FRAME ASM.	ハリホウヨウトウタイ (クミ)	1
2		B1424-512-000-A	NEEDLE BAR FRAME ROCK SHAFT	ハリホウヨウトウウジク	(1)
3		B1437-512-000-A	NEEDLE BAR SLIDE BLOCK	ハリホウカクゴマ	(1)
4		PT-0502700-S0	TAPERED PIN	チーハローピン	(1)
5		212-23805	NEEDLE BAR FRAME	ハリホウヨウトウタイ	(1)
6		B1422-512-000	FELT	ハリホウヨートタイ フィルト	1
7		B1440-512-000	RETAINER	ハリホウヨートタイ フィルト オサエ	1
8		B1606-512-000	ROCK SHAFT BUSHING, FRONT	スライジンク マイメタル	1
9		B1608-512-000	ROCK SHAFT BUSHING, REAR	スライジンク ウシロメタル	1
10		B1438-512-B00	WASHER 17.1X28X1.5	ヨートシクメタル サカネ T=1.5	1
11	#01	B1438-512-A00	WASHER T=1.35	ヨートシクメタル サカネ T=1.35	1
12	#01	B1438-512-C00	WASHER	ヨートシクメタル サカネ	1
13		B1438-512-C00	WASHER	ヨートシクメタル サカネ	1
14		SS-9152130-CP	SCREW 15/64-28 L=20.5	ロウカクホルム 15/64-28	1
15		B1430-512-000	DRIVING ARM	ハリホウヨート ユーブウデ	1
16		B1434-246-000	CONNECTING ROD	ハリホウヨートロウト	1
17		SD-1020961-SP	HINGE SCREW D=10.2 H=9.6	タネネジ D=10.2 H=9.6	2
18		NS-6680410-SP	NUT 9/32-28	ロウカクナット 9/32-28	2
19		B1628-246-000	FEED ROCKER SHAFT CRANK	スライ オクリウデ	1
20		SS-6151440-SP	SCREW 15/64-28 L=14	ヒラネジ 15/64-28 L=14	1
21		SS-7110720-TP	SCREW 11/64-40 L=7	マルヒラネジ 11/64-40 L=7	1
22		B1401-053-000	NEEDLE BAR	ハリホウ	1
23		B1411-053-000	NEEDLE BAR CONNECTION	ハリホウタキ	1
24		B1412-051-000	FELT	ハリホウタキ フィルト	1
25		SS-7090910-SP	SCREW 9/64-40 L= 8.5	マルヒラネジ 9/64-40 L=8.5	1
26		MDP-170B2300	NEEDLE DPX17 #23	ハリ DPX17 #23	1
27		SS-7080510-TP	SCREW 1/8-44 L=4.5	マルヒラネジ 1/8-44 L=4.5	1
28		103-08401	NEEDLE BAR THREAD GUIDE	ハリホウ イトカケ	1
29		B9117-201-000	BOBBIN	ホーピン	1
30		212-28051	HOOK ASM.	カマ (クミ)	1
31		212-27400	INNER HOOK GUIDE	ナカカマアンナイ	1
32		B1827-246-000	SLIDE BLOCK	ナカカマ アンナイ コロ	1
33		B1826-246-000	SLIDE BLOCK PIN	ナカカマ アンナイ コロシク	1
34		SS-1092810-SP	SCREW 9/64-40 L=25.4	チラネジ	1
35		SS-7090710-SP	SCREW 9/64-40 L= 6.8	マルヒラネジ 9/64-40 L=6.8	1
36		212-27509	ADJUSTING PLATE	ナカカマアンナイチョセウイタ	1
37		SM-6051202-TP	SCREW M5X0.8 L=12	ロウカクアナルホルム M5X0.8 L=12	2
38		WP-0520656-SA	WASHER 5.2X9.5X0.6	ヒラサカネ 5.2X9.5X0.6	2
39		212-29653	HOOK SHAFT SADDLE ASM.	カマジクタイ (クミ)	1
40		212-29604	HOOK SHAFT SADDLE	カマジクタイ	(1)
41		B1812-340-000	HOOK SHAFT BUSHING, UPPER	カマジクメタル (ウエ)	(1)
42		B1813-340-000	HOOK SHAFT BUSHING, LOWER	カマジクメタル (シタ)	(1)
43	#01	B1820-246-000	WASHER	カマジクサカネ	1
44	#01	B1820-246-00A	WASHER A	カマジクサカネ A	1
45		B1820-246-00B	WASHER B	カマジクサカネ B	1
46	#01	B1820-246-00C	WASHER C	カマジクサカネ C	1
47	#01	B1820-246-00D	WASHER	カマジクサカネ	1
48		212-27301	HOOK SHAFT GEAR	カマジクカサハクマルマ	1
49		B1816-340-000	HOOK DRIVING SHAFT	シタシク	1
50		212-27103	FEED VERTICAL CAM	オクリジョウケカマ	1
51		SS-8150510-TP	SCREW 15/64-28 L= 4.7	トメネジ 15/64-28 L=4.7	2
52		B1836-246-000-A	LOWER SHAFT BEVEL GEAR	シタシクカサハクマルマ	1
53		B1803-246-000	BUSHING, INTERMEDIATE	シタシク ナカメタル	1
54		B1805-201-000	OIL FELT	シタシク マイメタル フィルト	1
55		100-80406	BUSHING, INTERMEDIATE	シタシク ナカメタル	1
56		SS-8150510-TP	SCREW 15/64-28 L= 4.7	トメネジ 15/64-28 L=4.7	1
57		SS-8660612-TP	SCREW 1/4-40 L=6	トメネジ 1/4-40 L=6	3
58		B1806-038-000	OIL FELT	シタシク ウシロメタル フィルト	1
59		B3511-280-000	OIL FELT	ウツシクメタル フィルト	1
60		CS-0950810-SH	THRUST COLLAR ASM. D=9.5 W=8	スラストウケ D=9.5 W=8 クミ	1
61		SS-8110410-TP	SCREW 11/64-40 L= 3.5	トメネジ 11/64-40 L=3.5	(2)
62		CQ-2020000-00	OIL WICK	エツン	(0.04)
63		B1432-027-000	OIL PAD ROLLER	ハリホウヨートタイ フィルト	1
64	#02	MC-3720016-00	NEEDLE SY3355 160	ハリ SY3355 160	1

Note (注記) #01....SELECTIVE PART
#02....FOR JE

選択部品
J E 向のみ

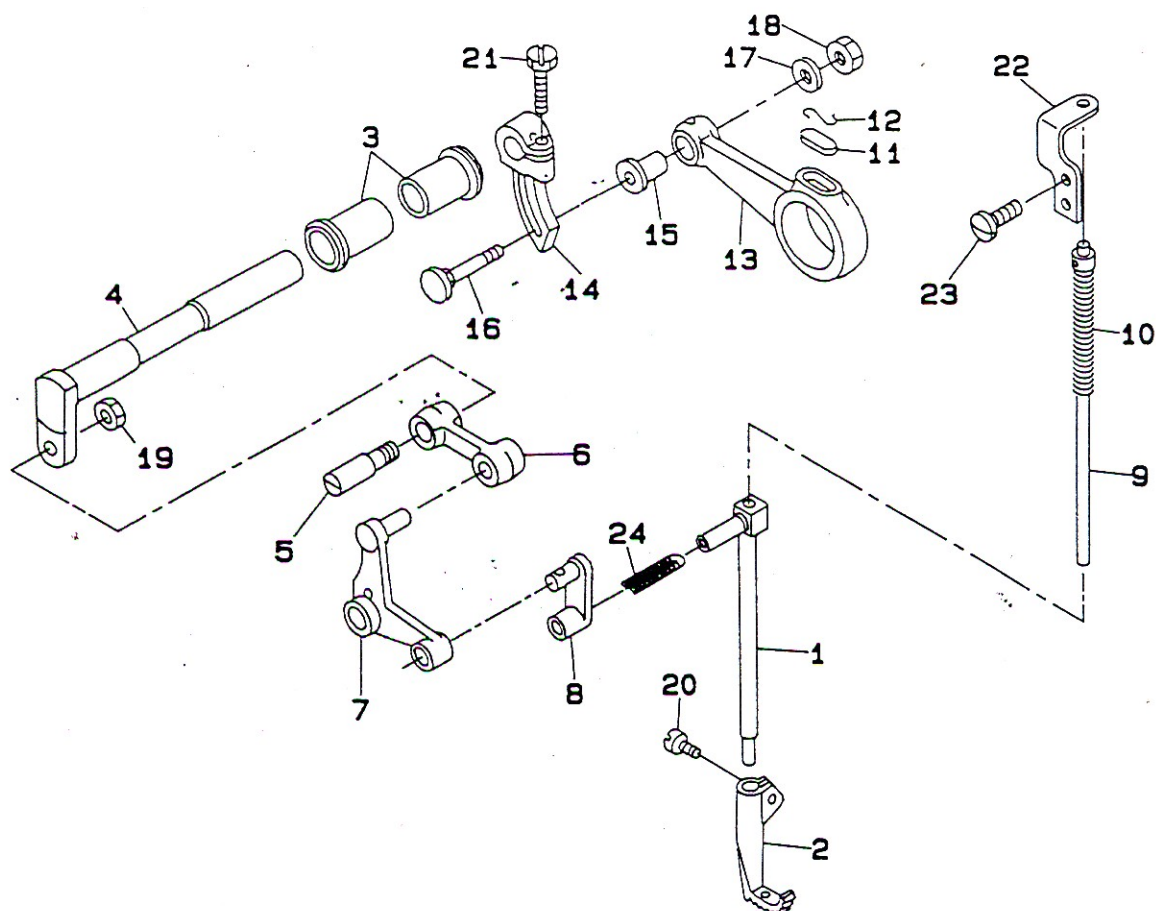
4. PRESSER BAR COMPONENTS
押え棒関係



REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ シ ム イ	Qty
1		B1501-241-H00	PRESSER BAR	オサエ棒	1
2		B1510-155-000	PRESSER BAR LOWER BUSHING	オサエ棒 シタメタル	1
3		SS-8150710-SP	SCREW 15/64-28 L=7	トメネジ 15/64-28 L=7	1
4		SS-6090910-TP	SCREW 9/64-40 L=9	ヒラネジ 9/64-40 L=9	1
5		B1525-053-0A0	PRESSER FOOT ASM.	オサエ (アンセツカハーツキ) クミ	1
6		D1462-241-E00	CONNECTING PIN ROLLER	オサエアケテコタイ シック コロ	1
7		D1463-241-E00	PRESSER BAR BRACKET GUIDE	オサエアケテコ カイト	1
8		D1464-241-E0A	GUIDE PLATE BASE	オサエアケテコカイト イタトタイ	1
9		B1509-141-H00	PRESSER SPRING REGULATOR	オサエチヨセツネジ	1
10		B1511-555-000	NUT 1/2-28	オサエチヨセツネジ ナット	1
11		B1502-246-000	PRESSER SPRING	オサエ チヨクセツ ハネ	1
12		B1512-141-H00	HAND LIFTER	オサエアケ	1
13		B1515-051-000	HAND LIFTER PIN	オサエアケ シック	1
14		SD-0800481-SP	HINGE SCREW D= 8 H= 4.9	タメネジ D=8 H=4.9	1
15		SS-7111310-SP	SCREW 11/64-40 L=12.8	マルヒラネジ 11/64-40 L=12.8	1
16		B1460-245-000	PRESSER LIFTING LEVER BASE	オサエアケテコタイ	1
17		B1461-245-000	GUIDE SHAFT HINGE SCREW	カイトシックタメネジ	1
18		B1462-053-000	THREAD RELEASE SPRING	イトユルメ ウケイタ ハネ	1
19		B1460-246-0A0	THREAD RELEASE GUIDE ASM.	イト ユルメ ウケイタ (ケツウウ)	1
20		B3401-340-000	PRESSER BAR LIFTING LEVER	ヒサアケテコ	1
21		SD-1127321-SP	HINGE SCREW D=12.70 H= 3.2	タメネジ D=12.7 H=3.2	1
22		SS-7621040-SP	SCREW 3/16-32 L= 9.5	マルヒラネジ 3/16-32 L=9.5	2
23		SS-7150740-SP	SCREW 15/64-28 L=7	マルヒラネジ 15/64-28 L=7	1
24		SS-7621040-SP	SCREW 3/16-32 L= 9.5	マルヒラネジ 3/16-32 L=9.5	1

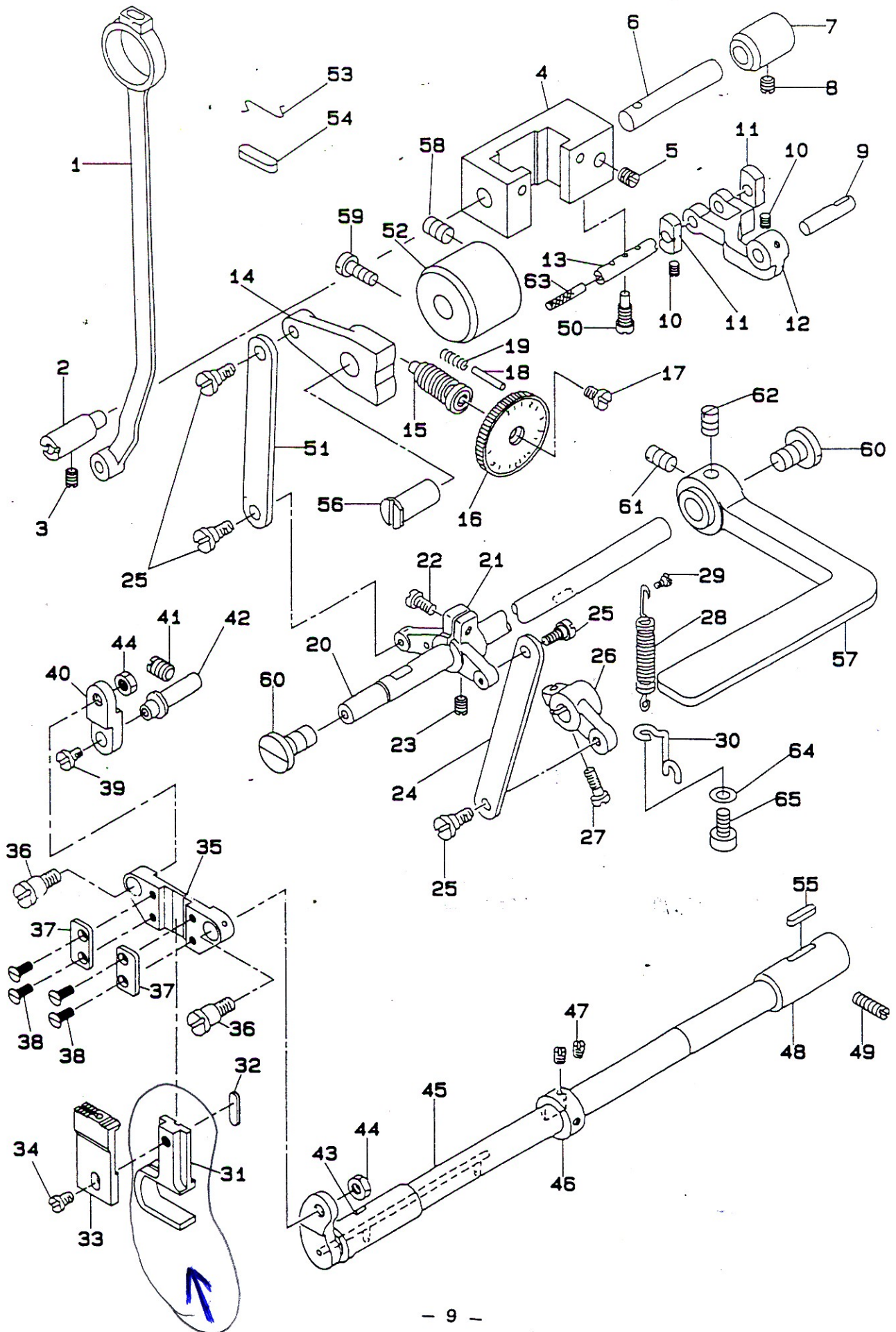
5. UPPER FEED MECHANISM COMPONENTS

上送り関係



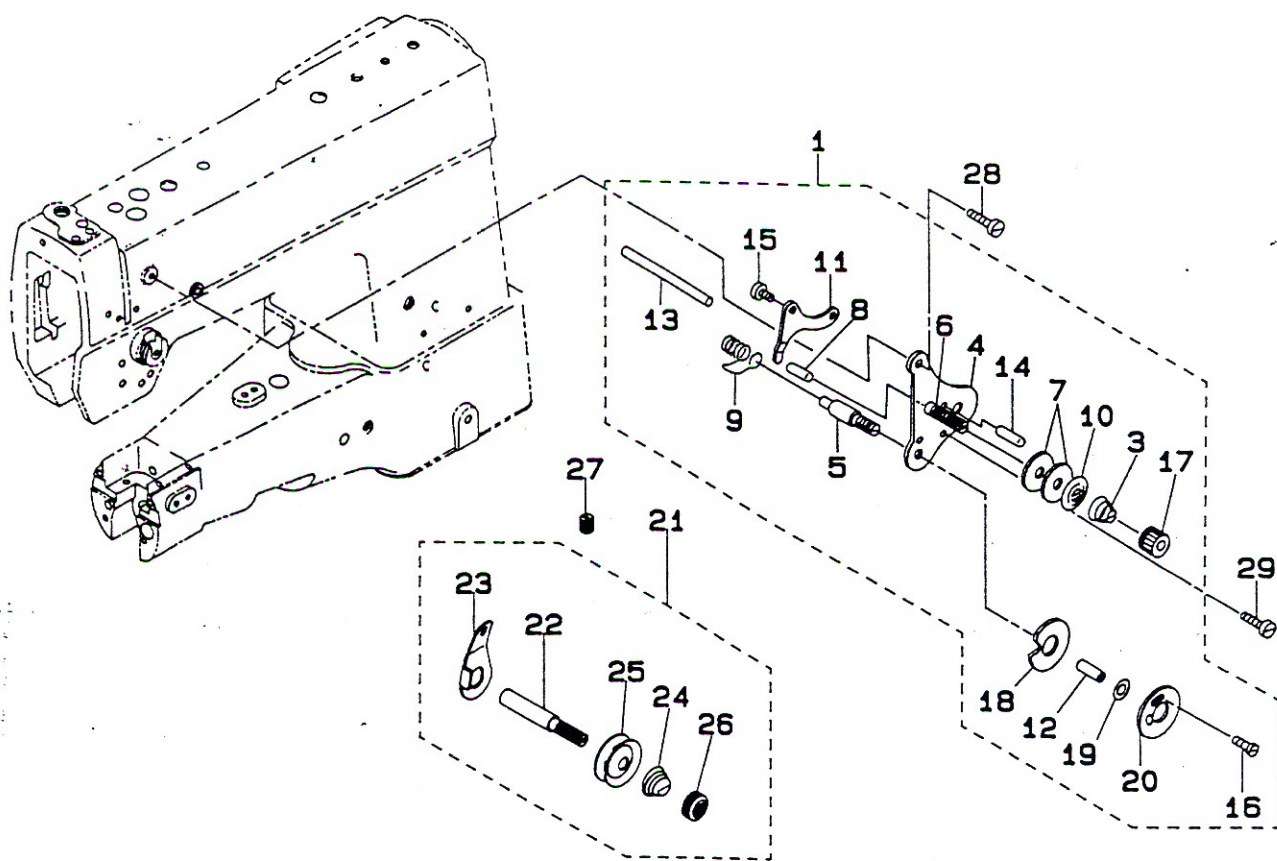
REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ	ン	メ	イ	Qty
1		B1466-053-000-A	WALKING BAR	ウワオクリホー				1
2		B1470-053-000	WALKING FOOT	ウワオクリアシ				1
3		B1455-053-000	BUSHING	ウワオクリシマク	メタル			2
4		B1456-053-000	UPPER FEED DRIVING SHAFT	ウワオクリシマク				1
5		B1457-055-000	SCREW STUD	ウワオクリ	レンケツ	タマシ		1
6		B1458-241-H00	UPPER FEED CONNECTING LINK	ウワオクリ	レンケツ	リンク		1
7		D1459-241-E00	L SHAPED LINK	Lカ	タ	リンク		1
8		B1465-053-000	WALKING BAR DRIVING LINK	ウワオクリ	ヨート	リンク		1
9		212-30057	WALKING BAR SPRING	ウワオクリ	ハネ	タマシ	ホウ(ケミ)	1
10		B1468-053-000	WALKING BAR SPRING	ウワオクリ	ホー	オサ	ハネ	1
11		B1702-012-000	OIL FELT	フ	エ	ルト		1
12		D1703-012-000	FELT RETAINER	フ	エ	ルト	オサ	1
13		D1453-055-B00	UPPER FEED DRIVING ROD	ウワオクリ	ロツト			1
14		D1454-055-B00	UPPER FEED SPRING ROD	ウワオクリ	ウチ			1
15		D1455-055-B00	CONNECTING STUD	ウワオクリ	ロツト	レンケツ	シマク	1
16		D1456-055-B00	HINGE SCREW	ウワオクリ	ロツト	タマシ		1
17		WP-0482086-SD	WASHER 4.8X11.5X2	ヒラ	チ	カネ	4.8X11.5X2	1
18		NS-6110530-SP	NUT 11/64-40	ロツ	カク	ナツト	11/64-40	1
19		NS-6660430-SP	NUT 1/4-40	ロツ	カク	ナツト	1/4-40	1
20		SS-6110710-TP	SCREW 11/64-40 L= 6.5	ヒラ	ネジ	11/64-40	L=6.5	1
21		SS-9161610-SP	SCREW 1/4-24 L=16	ロツ	カク	ホ	ルト 1/4-24 L=16	1
22		212-30107	WALKING BAR RETAINING PLATE	ウワオクリ	ハネ	タマシ	ホウウケイタ	1
23		SS-7090710-SP	SCREW 9/64-40 L= 6.8	マル	ヒラ	ネジ	9/64-40 L=6.8	2
24		CQ-2020000-00	OIL WICK	ユシ				0.02

6. FEED MECHANISM COMPONENTS
送り関係



REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ シ メ イ	Qty
1		B1619-246-000	CONNECTING ROD	オクリ ロット	1
2		B1621-246-000	FEED DRIVING ROCKER HINGE PIN	オクリ ハンカン タイ シェク	1
3		SS-8150510-TP	SCREW 15/64-28 L= 4.7	トメネジ 15/64-28 L=4.7	1
4		212-26006	FEED DRIVING ROCKER	オクリハンカンタイ	1
5		SS-8151150-SP	SCREW 15/64-28 L=10.5	トメネジ 15/64-28 L=10.5	1
6		B1622-246-000	FEED DRIVING ROCKER SHAFT	オクリ ハンカン シェク	1
7		B1623-246-000	BUSHING	オクリ ハンカン シェク メタル	1
8		SS-8150510-TP	SCREW 15/64-28 L= 4.7	トメネジ 15/64-28 L=4.7	1
9		B1627-246-000	FEED ROCKER SHAFT CRANK PIN	スイハイ オクリウチェク	1
10		SS-8090540-SP	SCREW 9/64-40 L=5	トメネジ 9/64-40 L=5	2
11		B1628-246-000	SLIDE BLOCK	オクリ ハンカン カクゴマ	2
12		B1624-246-000	FEED DRIVING ROCKER ARM	オクリ チョウセツ リンク	1
13		B1625-246-000	SLIDE BLOCK SHAFT	オクリ ハンカン カクゴマ シェク	1
14		212-26501	FEED REGULATOR	オクリチョウセツキ	1
15		B1652-115-000	NEEDLE FEED REGULATING SPRING	オクリチョウセツネジ	1
16		B1633-246-000	STITCH DIAL	メモリタ	1
17		SS-6121050-SP	SCREW 3/16-28 L= 9.5	ヒラネジ 3/16-28 L=9.5	1
18		B1147-555-000	PIN	オクリ チョウセツ ピン	1
19		B1148-555-000	SPRING	オクリ チョウセツ ピンハネ	1
20		212-26402	REVERSE FEED LEVER SHAFT	オクリレバシェク	1
21		212-26105	CONTROL LEVER CRANK	オクリレバシェクウチ	1
22		SS-6121210-SP	SCREW 3/16-28 L=12	ヒラネジ 3/16-28 L=9	1
23		SS-8150710-SP	SCREW 15/64-28 L=7	トメネジ 15/64-28 L=7	1
24		B1630-246-000	CONTROL LEVER CRANK LINK	オクリ ハンカン リンク (A)	1
25		SD-0640325-SP	HINGE SCREW	タネネジ	4
26		B1631-246-000	FEED DRIVING ROCKER SHAFT ARM	オクリ ハンカン シェク ウチ	1
27		SS-6121210-SP	SCREW 3/16-28 L=12	ヒラネジ 3/16-28 L=9	1
28		B1666-246-000	TENSION SPRING	ヒツパリ ハネ	1
29		SD-0400201-SD	HINGE SCREW D= 4 H= 2	タネネジ D=4 H=2	1
30		212-26709	SUSPENSION HOOK	ヒツパリハネカケ	1
31		B1602-340-000	FEED BAR CRANK	オクリタ イフタマタ	1
32		B1806-038-000	OIL FELT	シタジク ウシロメタル フィルト	1
33		212-25305	FEED DOG, 3.2MM	オクリハ (オブ ション リアナ:3.2)	1
34		SS-6110670-TP	SCREW 11/64-40 L=6.5	マルヒラネジ	1
35		B1601-340-000	FEED BAR SUPPORT	オクリタ イサエ	1
36		SD-0790701-SP	HINGE SCREW D=7.94 H=7	タネネジ	2
37		B1603-340-000	FEED BAR SUPPORT PLATE	オクリタ イサエ	1
38		SS-1080620-SP	SCREW 1/8-44 L=6	チラネジ 1/8-44 L=6	4
39		SS-7110830-SP	SCREW 11/64-40 L= 7.5	マルヒラネジ 11/64-40 L=7.5	1
40		B1616-246-000	FEED BAR LINK	オクリ タイ リンク	1
41		SS-8150750-SP	SCREW 15/64-28 L=7	トメネジ 15/64-28 L=7	1
42		B1617-246-000	FEED ROCKER LINK SHAFT	スイハイ オクリ リンク シェク	1
43		B1607-246-000	BUSHING, FRONT	スイハイ オクリシェク マイメタル	1
44		NS-6660430-SP	NUT 1/4-40	ロツカクナツト 1/4-40	2
45		212-24308	FEED ROCKER SHAFT	スイハイオクリシェク	1
46		CS-1111019-SH	THRUST COLLAR D=11.11 W=10	スラストウケ D=11.11 W=10	1
47		SS-8660610-TP	SCREW 1/4-40 L=6	トメネジ 1/4-40 L=6	2
48		B1609-246-000	BUSHING, REAR	スイハイ オクリシェク ウシロメタル	1
49		SS-8151550-SP	SCREW 15/64-28 L=15	トメネジ 15/64-28 L=15	1
50		SS-7151550-SP	SCREW 15/64-28 L=14.5	マルヒラネジ 15/64-28 L=14.5	1
51		212-26303	FEED LEVER CONNECTING LINK B	オクリハンカンリンク(B)	1
52		212-26600	FEED REGULATOR BUSHING	オクリチョウセツキパツシュ	1
53		B1213-012-000	FELT RETAINER	フィルト オサエ	1
54		B1702-012-000	OIL FELT	フィルト	1
55		B1806-038-000	OIL FELT	シタジク ウシロメタル フィルト	1
56		B1622-555-000	HINGE PIN	オクリ チョウセツタイ トメシェク	1
57		B1624-141-H00	FEED LEVER	オクリレバ	1
58		SS-8151150-SP	SCREW 15/64-28 L=10.5	トメネジ 15/64-28 L=10.5	1
59		SS-6151440-SP	SCREW 15/64-28 L=14	ヒラネジ 15/64-28 L=14	1
60		SS-7620750-SP	SCREW 3/16-32 L= 6.5	マルヒラネジ 3/16-32 L=6.5	2
61		SS-8660810-TP	SCREW 1/4-40 L=8	トメネジ 1/4-40 L=8	1
62		SS-8661040-TP	SCREW 1/4-40 L=10	トメネジ 1/4-40 L=10	1
63		CQ-2000000-00	OIL WICK	ウシシ	(0.1)
64		WP-0371016-SD	WASHER 3.7X8X1	ヒラサカネ 3.7X8X1	1
65		SS-7090910-SP	SCREW 9/64-40 L= 8.5	マルヒラネジ 9/64-40 L=8.5	1

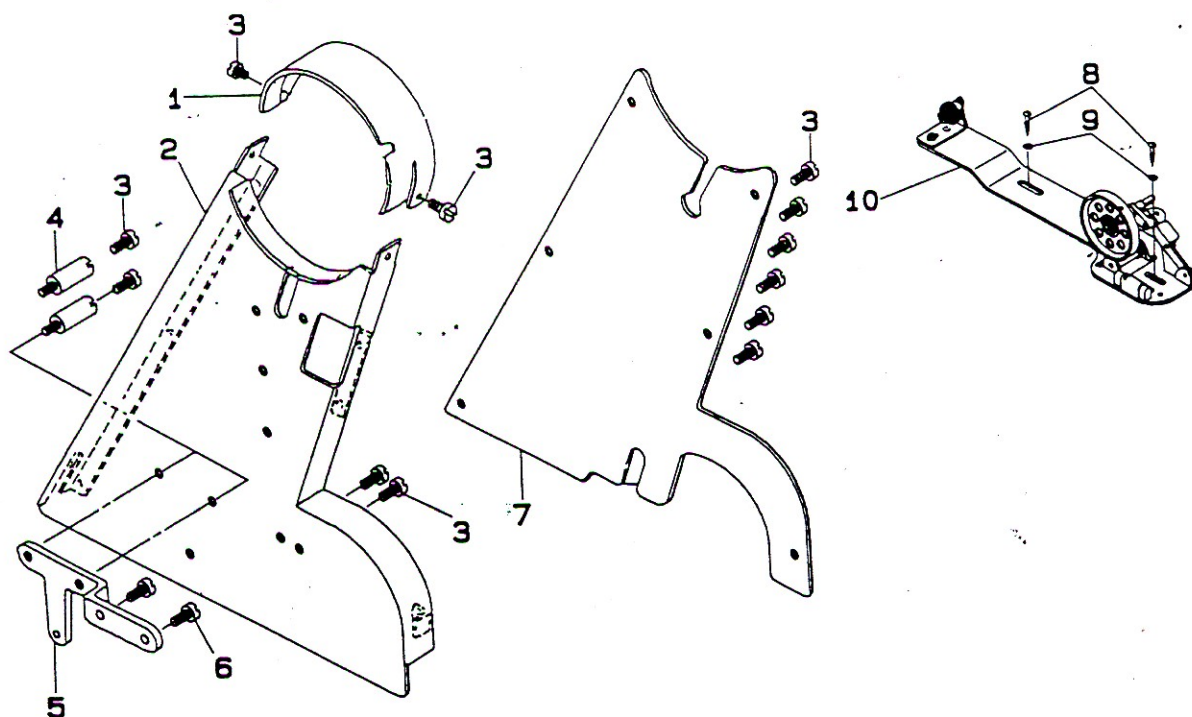
7. THREAD TENSION COMPONENTS
糸調子関係



REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ シ ム イ	Qty
1		212-30552	TENSION CONTROLLER ASM.	イトチヨウシ (クミ)	1
2		B3125-012-000	THREAD TENSION NUT	イトチヨ-シ ナツト	(1)
3		B3129-053-000	TENSION SPRING	イトチヨ-シハネ	(1)
4		B3121-512-000	TENSION CONTROLLER BASE	イトチヨ-シ タイイタ	(1)
5		B3123-051-000	TAKE-UP SPRING STUD	イトトリ ハネシク	(1)
6		B3124-051-000	TENSION STUD	イトチヨ-シホ-	(1)
7		B3126-051-000	TENSION DISC	イトチヨ-シ シラ	(1)
8		B3127-051-000	TENSION RELEASE PIN, SHORT	イトユルメ ヒオン	(1)
9		B3128-051-000	THREAD TAKE-UP SPRING, A	イトトリハネ	(1)
10		B3132-051-000	TENSION DISC HOLDER	イトチヨ-シチラ オチエ	(1)
11		B3134-051-000	TENSION RELEASE LEVER	イトユルメ イタ	(1)
12		B3137-051-00A	TAKE-UP SPRING GUIDE SHAFT	イトトリハネ アンナイ; カシメシク	(1)
13		B3122-053-000	TENSION RELEASE BASE	イトユルメ オンホ-	(1)
14		PS-0200122-K0	SPRING PIN 2.0X12	スプリングヒオン 2.0X12	(1)
15		SD-0470281-SP	HINGE SCREW D=4.7 H=2.8	タメネシ D=4.7 H=2.8	(2)
16		SS-4080610-SP	SCREW 1/8-44 L=6.4	ナメネシ 1/8-44 L=6.4	(1)
17		103-20208	THRED TENSION STUD NUT	イトトリハネシクナツト	(1)
18		B3137-051-00B	TENSION GUIDE DISC, INNER	イトトリハネ アンナイチラ (ウチカワ)	(1)
19		B3137-051-00C	SHAFT	イトトリハネ アンナイシク	(1)
20		B3137-051-00D	TENSION GUIDE DISC, OUTER	イトトリハネ アンナイチラ (ソトカワ)	(1)
21		212-21452	TENSION CONTROLLER ASM. NO.1	タイイチイトチヨウシセツ	1
22		D3161-555-B00	FIRST TENSION POST	タイイチ イトチヨ-シホ-	(1)
23		D3162-555-B00	THREAD GUIDE	タイイチ イトチヨ-シホ- アンナイ	(1)
24		D3168-555-H0B	SPRING	タイイ イトチヨウシハネ	(1)
25		B3214-047-000	BOBBIN WINDER TENSION DISC	イトチヨ-シ シラ	(2)
26		B3216-047-000	BOBBIN WINDER TENSION NUT	イトチヨ-シ ナツト	(1)
27		SS-8110510-SP	SCREW 11/64-40 L=5	トメネシ 11/64-40 L=5	1
28		SS-7110720-SP	SCREW 11/64-40 L=7	マルヒラネシ 11/64-40 L=7	1
29		SS-2090710-SP	SCREW 9/64-40 L=7	マルチラネシ 9/64-40 L=7	1

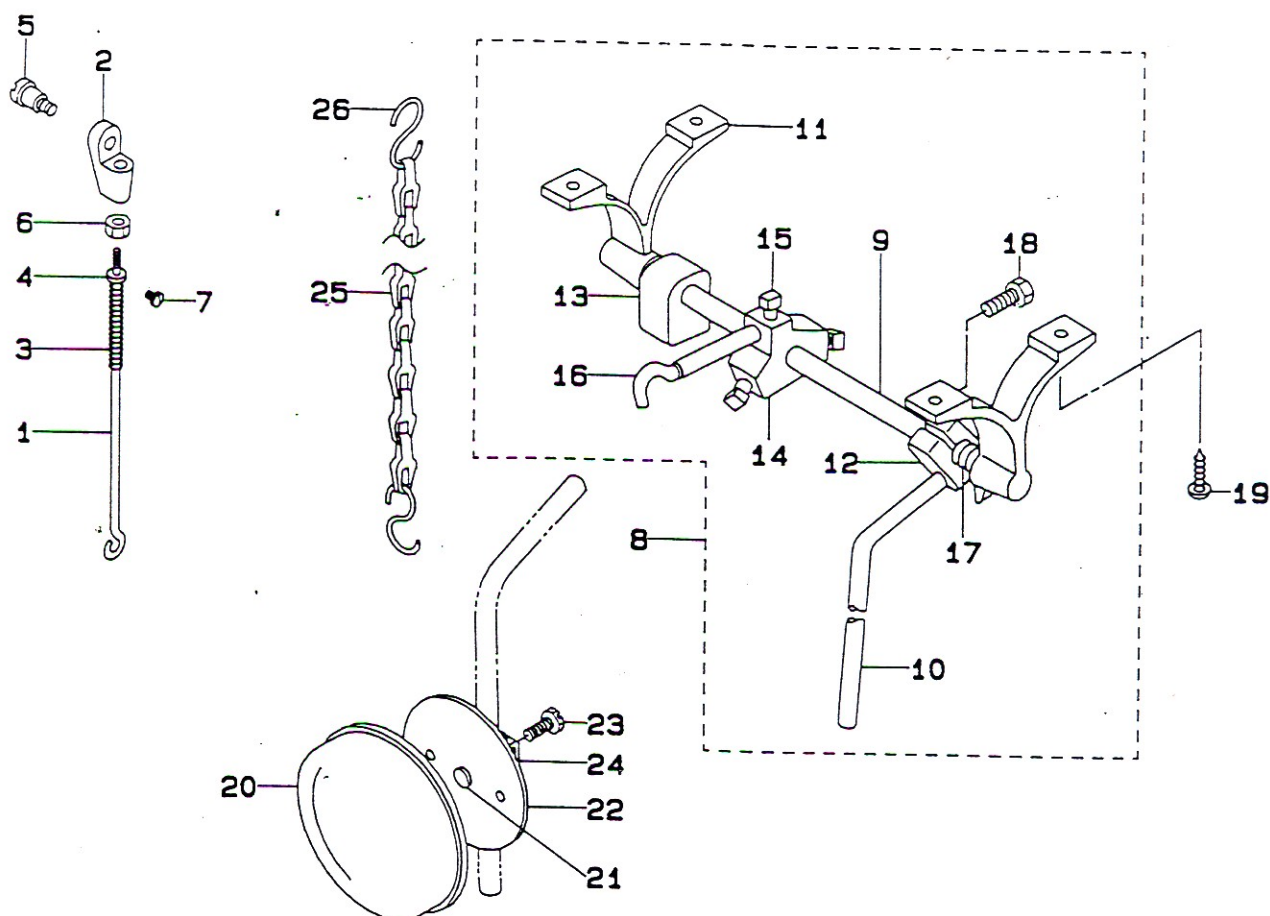
8. BELT COVER & BOBBIN WINDER COMPONENTS

ベルトカバー・糸巻装置関係



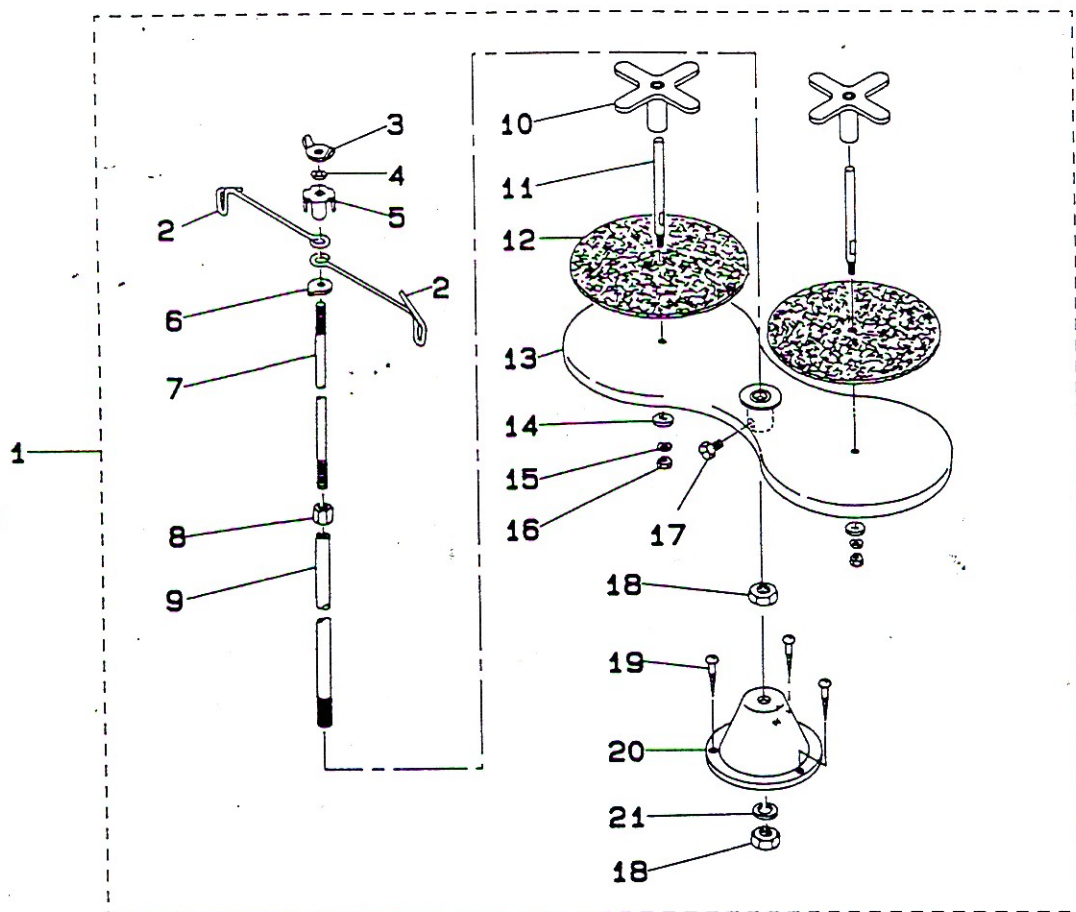
REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ シ メ イ	Qty
1		B9101-246-000	BELT COVER, TOP	トップカバー	1
2		B9102-245-0A0	BELT COVER ASM.	ベルトカバー (ケツコウ)	1
3		SS-6110480-SP	SCREW 11/64-40 L=4.3	ヒラネジ 11/64-40 L=4.3	12
4		B9106-246-000	BELT COVER SUPPORT	ベルトカバー ササエ	2
5		B9107-246-000	BELT COVER SUPPORT PLATE	ベルトカバー ササエ イタ	1
6		SS-6111140-SP	SCREW 11/64-40 L=11	ヒラネジ 11/64-40 L=11	2
7		B9104-246-000	BELT COVER, LOWER	ベルトカバー (フタ)	1
8		SK-3482500-SC	WOOD SCREW D=4.8 L=25	マルモクネジ D=4.8 L=25	2
9		WP-0501016-SC	WASHER 5X10.5X1	ヒラサカネ 5X10.5X1	2
10		B3201-012-0A0	BOBBIN WINDER ASM.	イトマキ ソーチ	1

9. KNEE LIFTER COMPONENTS
膝上げ関係



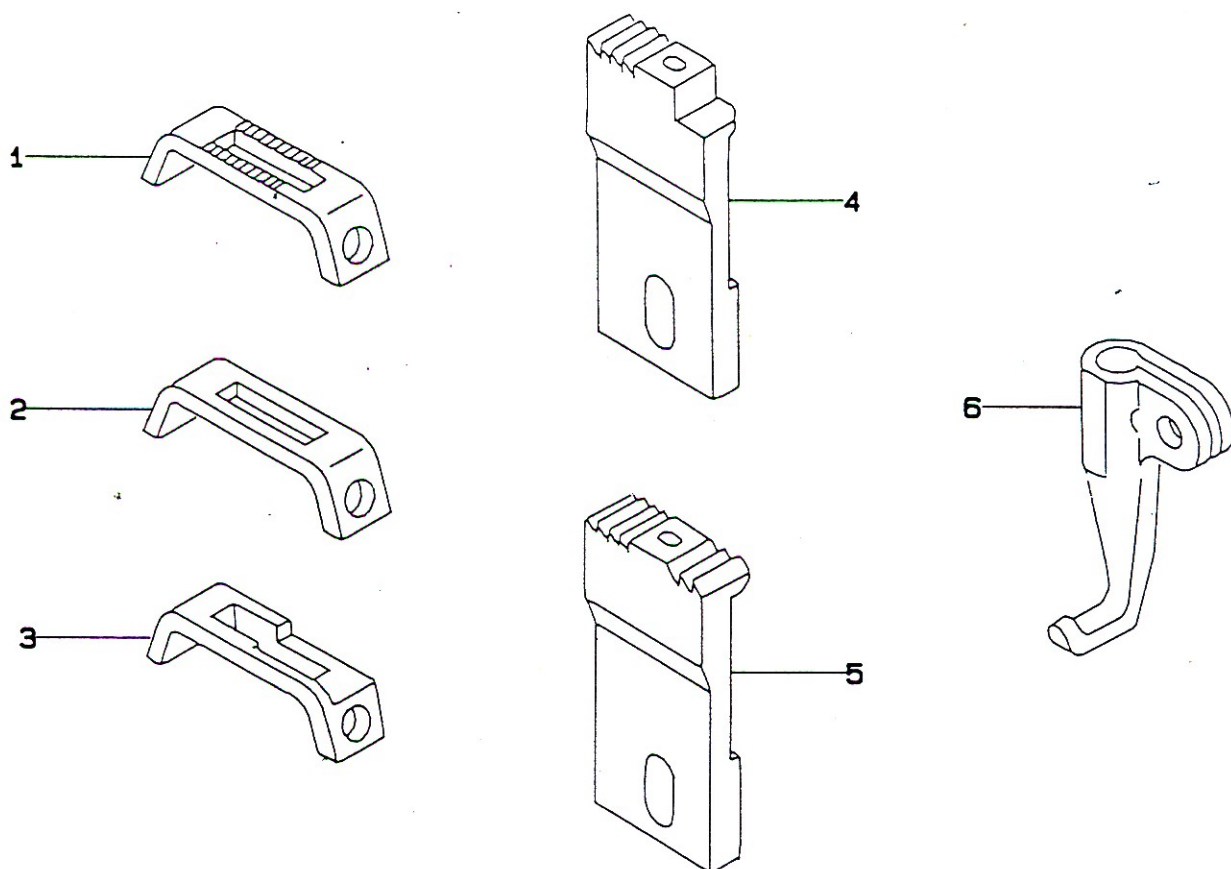
REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ シ メ イ	Qty
1		212-30602	HANGING ROD	ツリホウ	1
2		210-27503	BAR CONNECTION	ツリホウタマ	1
3		212-30701	SPRING	アツリホウオシハネ	1
4		B3418-245-000	SPRING HOLDER	ヒサアケテコハネウケ	1
5		SD-0790601-SP	HINGE SCREW D=7.94 H=6	タシシ D=7.94 H=6	1
6		NS-6620310-SP	NUT 3/16-32	ロツカクナツ 3/16-32	1
7		SS-7110730-SP	SCREW 11/64-40 L= 6.5	マルヒラネシ 11/64-40 L=6.5	1
8		B3420-245-0A0	KNEE LIFTER ASM.	ヒサアケソウチクミ	1
9		B3420-245-000	MAIN SHAFT	シュシク	(1)
10		B3422-245-000	KNEE LIFTER PLATE ROD	ヒサアケタチシク	(1)
11		B3423-245-000	KNEE PRESS ROD HOLDER	ササエ	(2)
12		B3433-141-H0A	BRACKET	ヒサアケタチシク	(1)
13		B3434-141-H00	BRACKET	トメタマ	(1)
14		B3424-141-H00	MOUNTING BRACKET	マカリウデササエ タマ	(1)
15		B3425-141-H00	MOUNTING BRACKET SET SCREW	トメネシ	(3)
16		B3424-245-000	KNEE LIFTER PLATE ARM	マカリウデ	(1)
17		B3425-245-000-A	SPRING	ヒサアケガイテン トメハネ	(1)
18		SS-9182010-SN	SCREW 9/32-20 L=20	ロツカクホル 9/32-20 L=20	(2)
19		SK-1483200-SE	WOOD SCREW D=4.8 L=32	サラモクネシ D=4.8 L=32	4
20		B3431-552-000-A	KNEE PRESS PLATE COVER	ヒサアテカハ	1
21		110-24403	RUBBER	ヒサアテ ユム	1
22		110-23702	KNEE PRESS PLATE	ヒサアテ	1
23		110-23801	KNEE PRESS PLATE HOLDER	ヒサアテササエ	1
24		SS-9151540-SR	SCREW 15/64-28 L=15	ロツカクホル 15/64-28 L=15	1
25		B8131-019-000	CHAIN	クサリ	1
26		B8133-019-000	S SHAPED HOOK	スカタ カナク	(2)

10. THREAD STAND COMPONENTS
糸立装置関係



REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ シ ム イ	Qty
1		B3301-012-0A0	THREAD STAND ASM.	イトタテ ソーチ クミ	1
2		B3307-012-000	THREAD GUIDE	イトタテ イトアンナイ	(2)
3		B3310-012-000	POSITION CUP SET SCREW	イトタテ イトアンナイ シメネジ	(1)
4		WS-0641560-KR	SPRING WASHER 6.4X11.9X1.5	ハネサカネ 6.4X11.9X1.5	(1)
5		B3309-012-000	POSITION CUP	イトタテ イトアンナイ マワリトメ	(1)
6		B3308-012-000	ROD WASHER	イトタテ イトアンナイウケ	(1)
7		B3306-012-000	SPOOL ROD	イトタテ ウイカン	(1)
8		NM-6061061-SE	NUT M6	ロツカクナツ M6 10X11.5X10	(1)
9		B3302-012-000	SPOOL REST ROD	イトタテ シタカン	(1)
10		B3312-012-000	SPOOL RETAINER	イトマキ フレトメ	(2)
11		B3305-012-000	SPOOL PIN	イトマキ ウケホ	(2)
12		B3301-012-000	SPOOL REST CUSHION	イトマキウケ	(2)
13		111-83209	SPOOL REST	イトマキ ウケ	(1)
14		WP-0560860-SE	WASHER 5.6X12X0.8	ヒラサカネ 5.6X12X0.8	(2)
15		WS-0531060-KR	SPRING WASHER 5.3X8.3X1	ハネサカネ 5.3X8.3X1	(2)
16		NS-6123881-SE	NUT 3/16-28	ロツカクナツ 3/16-28	(2)
17		SM-9061080-SE	SCREW M6 L=10	ロツカクネルト M6 L=10	(1)
18		NM-6100663-SE	NUT M10	ロツカクナツ M10 3ｼﾁ	(2)
19		SK-3452000-SE	WOOD SCREW D=4.5 L=20	マルモクネジ D=4.5 L=20	(3)
20		B3301-012-000	SPOOL STAND	イトタテタイ	(1)
21		WS-1002560-KR	SPRING WASHER 10X18X2.5	ハネサカネ 10X18X2.5	(1)

11. GAUGE COMPONENTS
ゲージ関係



REF.NO	NOTE	PART NO.	DESCRIPTION	ヒ	ン	メ	イ	Qty
1	#01	212-22104	THROAT PLATE	ハリイタ (JAMケ)				1
2	#01	212-22005	THROAT PLATE	ハリイタ				1
3	#01	212-22203	THROAT PLATE	ハリイタ				1
4	#01	212-25107	FEED DOG (OPTION)	オクリハ*	オ	フ	シ	1
5	#01	212-25008	FEED DOG	オクリハ*				1
6	#01	212-31006	WALKING FOOT	ウワオクリアシ				1

Note (注記) #01...OPTION

オプション

FOR SAFE OPERATION



1. Keep your hands away from needle when you turn ON the power switch or while the machine is in operation.
2. During operation, be careful not to allow your or any other person's head or hands to come close to the thread take-up, handwheel, V-belt, bobbin winder and motor. Also, do not place anything close to them.
3. Do not operate your machine with the finger guard, belt cover and any other protectors removed.
4. Before tilting the machine head, be sure to confirm that the head support bar is properly attached to your machine head.
5. Before tilting the machine or removing the V belt, be sure to turn OFF the power switch and confirm that the motor of the sewing machine stops.
6. Tilt the machine head after removing the hook for the knee lifter.
7. When having tilted the machine head, wipe out oil on the bed underside, the top face of bed support and hinge area, and then raise up the machine head.



8. To ensure safety, never operate the machine with the ground wire for the power supply removed.
9. When inserting/removing the power plug, the power switch has to be turned OFF in advance.
10. In time of thunder and lightening, stop your work and disconnect the power plug from the receptacle so as to ensure safety.
11. If the machine is suddenly moved from a cold place to a warm place, dew condensation may be observed. In this case, turn ON the power to the machine after you have confirmed that there is no danger of water drops in the machine.
12. Turn OFF the power to the machine in the event of a power failure.
13. Do not allow the power cord to trail on the floor.