# **GL**BAL

BT 1850-28 BT 1850-42

Single needle lockstitch bar tacking Sewing machine

# INSTRUCTION / OPERATING MANUAL PARTS MANUAL



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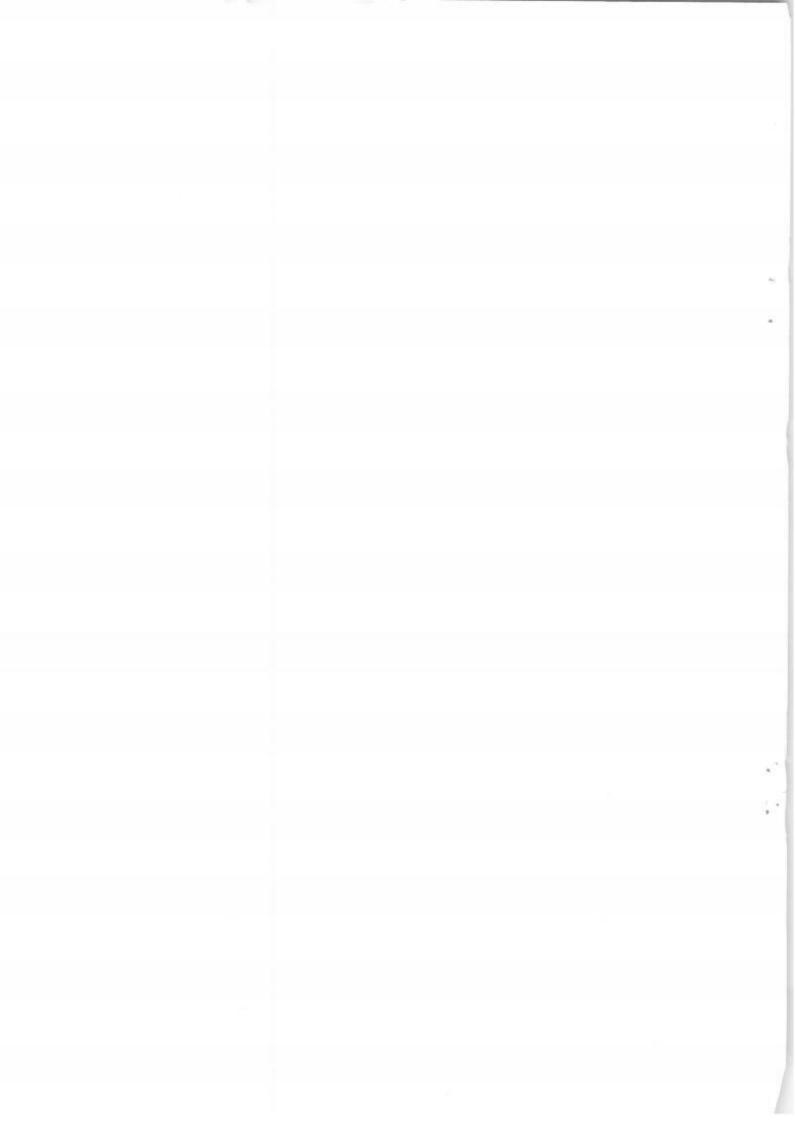
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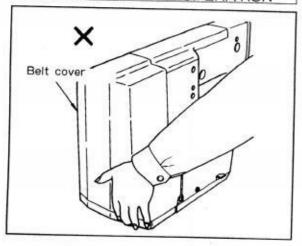


High speed 1-Needle Cylinder Bed Lockstitch Bar Tacking Industrial Sewing Machine

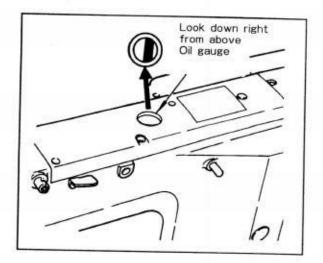
# **INSTRUCTION MANUAL**

Thank you for buying a sewing machine. Please read this Instruction Manual carefully before using this unit in order to get the most out of it and to enjoy using it for a long time.

# CAUTIONS BEFORE OPERATION

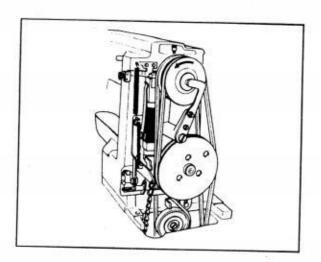


1.Do not hold the belt cover when carrying the sewing machine.

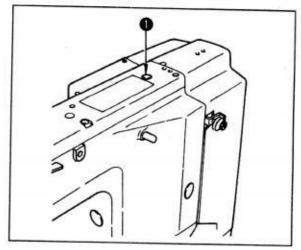


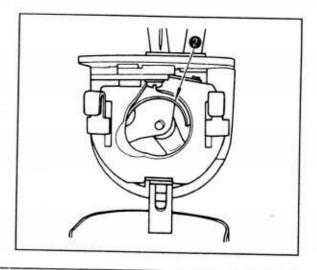
3. If the red color is observed in the  $\sigma_{\rm H}$  gauge when looking down from just above the oil gauge, supply the lubricating oil according to "09.Lubrcation".

4. Before starting a machine which has been newly set up or has not been used for a long period of time, apply a few drops of the lubricating oil to main shaft components through hole ①, one drop to the racing surface ② of the shuttle race.

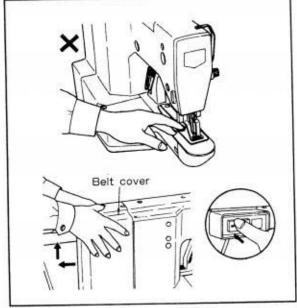


The sewing machine should run in the arrowed direction. Never allow the machine to run in the reverse direction.

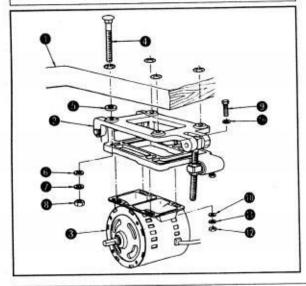




#### CAUTIONS IN OPERATION



#### 01 INSTALLING THE MOTOR



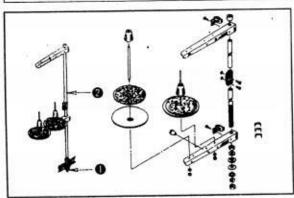
- 1.Do not place your fingers near the work clamp foot while the machine is in operation.
- 2. Make sure to turn off the power switch before removing the belt cover.
- 3. Never bring your fingers or hair close to, or place any-thing on the handwheel, V-belt, bobbin winder wheel or motor during operation, it may lead to serious personal injuries.
- 4.If your machine is provided with a belt cover, finger guard and eye guard, never operate your machine with any of them removed.

- 1.Attach motor base ② to table ① using bolt ④ vibration-proof rubber pad ⑤, washer ⑥, spring washer ⑦, and nut ⑧.
- 2.Using bolt (9), washer (10), spring washer (10), and nut (10), install motor (3) to motor base (2).

#### Note:

When installing, please determine the direction of the motor base ② comparing with the shaft of motor ③ You can also see the figure of "Parts List" Page 48.

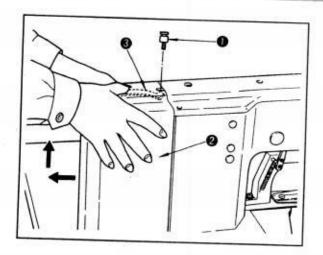
#### 02 INSTALLING THE THREAD STAND



- Assemble the thread stand, and set it in the hole in the table.
- Tighten nut ① to fix the thread stand.
   If ceiling wiring is made, pass the power cord through spool rest rod ②.

03

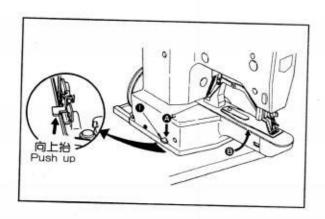
# REMOVING THE BELT COVER



- 1. After carrying the sewing machine to a desired installing place, remove setscrew ①, then belt cover ② can be attached or removed very easily and quickly.
- 2.To remove the belt cover, pull it towards you until holding spring ③ is released, then lift it off.
- ★ Install the belt cover by reversing the above procedure.

04

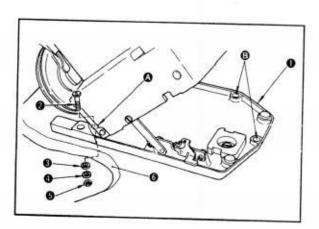
# RAISING THE MACHINE HEAD



- 1.Remove the belt cover. With the machine head set in its installing position on the machine table, raise the machine head in direction B while pushing down(in direction) (A) bed locker (1).
- 2. Releasing the bed locker, further raise the machine head in direction ® until it locks.
  ★To lower the machine head, push up the bed locker to release the lock.

05

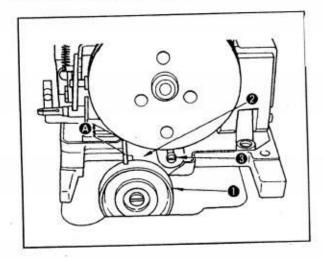
### INSTALLING THE MACHINE HEAD



- 1.Install bed mounting base ① to machine table ⑥ using bolts ②, flat washers ② and ④,and nuts ⑤ (each 3 pcs.)
- 2. Fix point @ before raising the machine head. Then fix two points (8).

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# ATTACHING THE IDLER PULLEY



Fix idler pulley ① to mounting plate ② by setscrew ③.

(Note): Adjust the clearance at A to just allow the V belt to pass it through.

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#### MOTOR PULLEYS AND BELTS

#### CHOOSE

 M-type V belts are used for this model of sewing machine.

This sewing machine uses two V belts, one for high-speed sewing, and the other for lowspeed sewing.

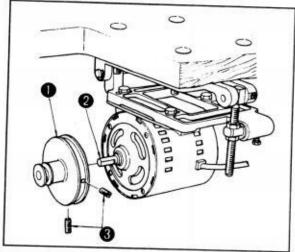
The table below shows the relation between the motor pulleys, V belts, and sewing speeds.

Note: The motor pulleys marked with asterisks are applicable only to cotton thread. Please order the motor pulleys for threads other than cotton thread.

Frequency	Sewing speed	Motor pulley part No.	Engraved mark	High-speed V belt	Low-speed V belt
50Hz	2300 2000 1800	*D8.18-5 *D8.18-4 *D8.18-1	50-2300 50-2000 50-1800	D8.18-11 (50") D8.18-10 (49") D8.18-3 (48")	D8.18-2 (46")
60Hz	2300 2000 1800	*D8.18-8 *D8.18-7 D8.18-6	60-2300 60-2000 60-1800	D8.18-10 (49") D8.18-3 (48") D8.18-9 (47")	D8.18-2 (46")

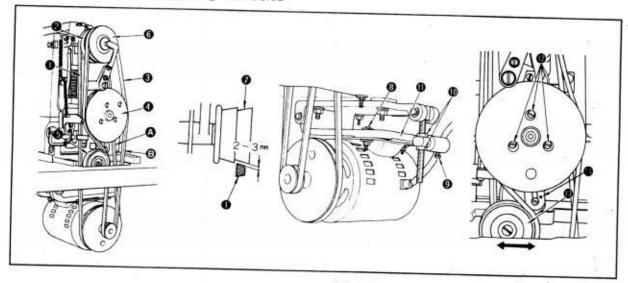
(2)

#### Installing the motor pulley



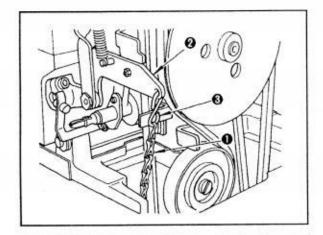
Set motor pulley ① onto motor shaft ② so that one of two setscrews ③ meets the flat part of the motor shaft. Then tighten setscrews ③.

Attaching the belts



- 1. Set high-speed V belt  $\oplus$  on the large diameters of high-speed pulley  $\oslash$  and the motor pulley.
- Set low-speed V belt (3) on the small diameters of low-speed pulley (6) and the motor pulley through pressure decreasing pulley (4) and idler pulley (5).
- 3. Move the motor pulley back or forth to provide a 2 to 3mm clearance between high-speed V belt ⊕ and bobbin winder wheel ⊕.
- 4.Loosen setscrew (3), and move the motor to the right or left to make adjustment so that the highspeed V belt comes evenly in contact with the bobbin winder wheel when the bobbin winder is used (refer to "15. Winding a bobbin").
- 5.Loosed setscrew (1), and move motor base (1) up or down by adjusting nut (1) to perform adjustment so that the high-speed V belt slacks about 10mm when you push the belt at middle (2).
- 6.Loosen setscrew @, and move idler pulley @ in the arrowed direction to perform adjustment so that the low-speed V belt slacks about 10mm when you push the belt at middle @. (At this time, set the idler pulley so that it is aligned with engraved marker dot @ on the installing plate.)

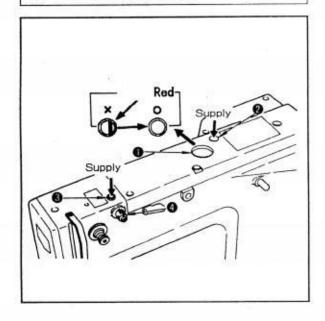
ATTACHING THE CHAIN



Hook S-shaped hook ③ into the hole in the tip of starting lever ②, and attach chain ① to the S-shaped hook.

09 LUBRICATION

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- 1. Lubricate the machine once everyday. Supply the lubricating oil through lubricating hole ② until the red color in oil gauge ① completely disappears as observed from right above the oil gauge.
- 2.Use Juki New Defrix Oil No.2 or spindle oil No.2 as the lubricating oil.

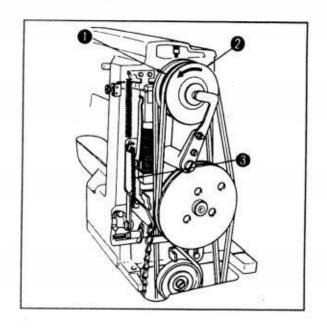
When using the thread guide a synthetic fiber thread and cloth

Supply silicone oil through silicone oil lubricating hole ③ when using thread guide ④ for a synthetic fiber thread.At this time, check that the thread which has passed through thread guide ④ has the silicone oil on it.

#### 10 OPERATING THE SEWING MACHINE

Operate the sewing machine in the following procedure:

- 1. Turn on the power switch.
- Depress the starting pedal a little, and work clamp foot will come down. When you want to make the work clamp foot go up, release the pedal.
- 3.Further depress the pedal, and the sewing machine starts bar-tacking. Immediately after the sewing machine starts bar-tacking, release the pedal.
- 4. When the machine has completed the specified bar-tacking cycle, the work clamp foot will automatically go up, and the needle and bobbin threads are trimmed before the machine stops.



#### (Cautions)

- 1.Be sure to release the pedal as soon as the machine starts bar-tacking, or else the machine will not stop at the predetermined point.
- 2.If you fail to depress the pedal sufficiently, the machine may stop at the first stitch. In this case, depress the pedal gain sufficiently.
- 3.If the machine will not start even when you depress it strong enough, turn of the power switch, and remove the belt cover. Then turn changeover Pulley ① (Knurled part) in the arrowed direction of low-speed pulley ② :
- 4. This sewing machine may run rather unsmoothly on a cold morning because it uses grease for the lubrication of several parts. In such a case, allow the machine to idle for 5 or 6 times before starting the work.

To operate the sewing machine manually;

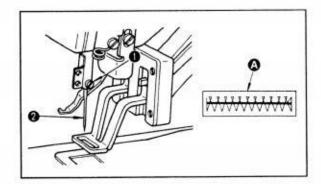
Turn off the power switch, remove the upper end of spring ③, give low-speed pulley ② two turns in the arrowed direction and the work clamp foot will come down. Then depress the starting pedal, and the machine can be run manually.

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#### MATERIALS AND NEEDLES TO BE USED

Material	Needle	Needle plate needle hole guide	Class of work
Synthetic fiber	#14	D8.16-11	Men's suits, Ladies' wear
Medium-weight	#16	D8.16-11	Men's suits, Ladies' wear
Heavy-weight	#18	D8.16-11 D8.16-14	Working wear, overcoats
Thin material	#14	D8.16-11	Umbrelle

#### 12 ATTACHING THE NEEDLE

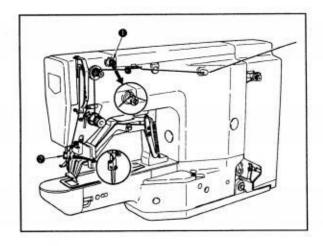


Loosening setscrew ①, insert needle ② fully into the needle bar hole with the long groove of the needle facing towards you, then tighten setscrew ① (Note);

 If the bar-tacking stitches as a shown above are produced. Install the needle so that it slightly faces to the left.

Use a SUPER needle for synthetic fiber when sewing with synthetic fiber thread or material.

#### 13 THREADING THE MACHINE



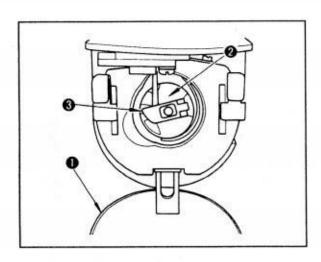
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Thread the machine in the order as shown above. Leave thread of approx. 4cm on the needle.

(Note):
1.For a synthetic fiber thread (silicone oil is used), pass the thread also through silicone lubricant thread guide ①.

2. For a thick thread, pass the thread through only one of the two holes in needle bar thread guide ②.

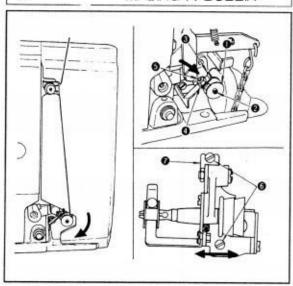
#### REMOVING AND INSTALLING THE BOBBIN CASE



- 1. Open cylinder arm cap ①.
- 2.Raise and hold the latch lever of bobbin case ② to take it out. The bobbin in the bobbin case does not fall as far as latch lever ③ is raised and held.
- 3. To load the bobbin case into the shuttle, fit it onto the shaft of the shuttle and snap in the latch lever of the bobbin case.

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#### WINDING A BOBBIN



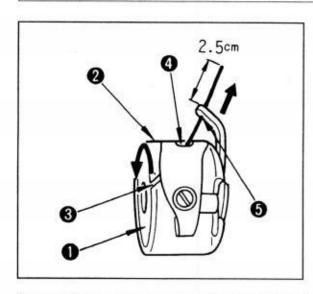
- 1. Attach bobbin (1) to bobbin winder spindle (2).
- Thread the winder in the order as illustrated and wind the thread onto the bobbin four or five turns.
- 3. Push bobbin winder trip latch ③ towards the bobbin (in the arrowed direction), and the winder starts to wind the bobbin. The winder will automatically stop as soon as it has wound a predetet mined amount (80% of the capacity of the bobbin) of thread round the bobbin.
- 4. To adjust the amount of thread wound round the bobbin, loosen nut 

  and screw in adjusting screw

  to dectease the thread amount.
- 5.If the thread is not wound evenly round the bobbin, loosen screw (6) and move bobbin winder base (7) in the arrowed direction to make adjustment.

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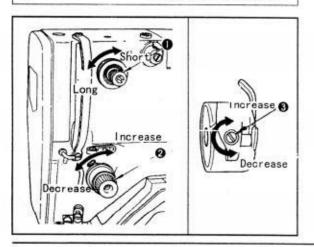
#### THREADING THE BOBBIN CASE



- 1. Hold bobbin ① in hand so that it spins counter-clockwise and set it in bobbin case ②.
- 2.Pass the thread through slot ③ in the bobbin case. Pull the thread to pass it under the tension spring out to thread exit ⑥. At this time confirm that the bobbin spins in the arrowed direction when the thread is pulled.
- 3. Pass the thread through hole (5), and allow the thread to trail about 2.5cm from the hole.

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#### THREAD TENSION



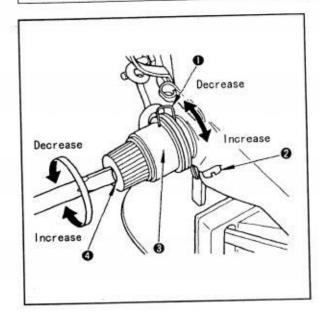
Adjusting the needle thread tension

As thread tension controller No.1 ① turned clockwise, the length of the thread remaining on the needle after thread trimming will decrease, and vice versa. Minimize the length of the thread remaining on the needle as far as the thread does not slip off the needle. As thread tension controller No.2 ② is turned clockwise the needle thread tension increased and vice versa.

Adjusting the bobbin thread tension

Turning thread tension adjusting screw (3) clockwise will increase the bobbin thread tension, and vice versa.

# ADJUSTING THE THREAD TAKE-UP SPRING



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The normal stroke of thread take-up spring (1) is 6 to 8mm, and the tension at the starting point is 30 to 50g.

#### Adjusting the stroke

Loosen screw ②, and turn tension controller assembly ③ clockwise to increase the stroke or counterclockwise to decrease it.

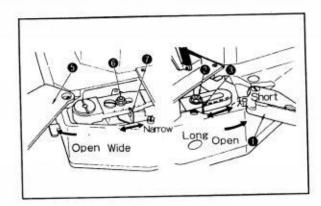
#### Adjusting the tension

Insert the blade of a flat—bit screwdriver into the grove in the tension post (4), and turn it clockwise to increase the tension or counterclockwise to decrease it.

#### (Note):

Decrease the tension of the thread take-up spring for a synthetic fiber thread.

#### 19 ADJUSTING THE LENGTH AND WIDTH OF BAR-TACKING



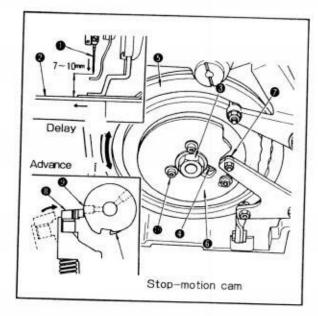
Adjusting the bar-tacking length

Push and open bed cover (A) ① in the arrowed direction, and loose nut ② using the wrench supplied with the machine. Turn feed across regulator ③ towards you to increase the bartacking length, and vice verse. After adjustment, tighten nut ② and close bed cover (A) ①.

#### Adjusting the bar-tacking width

Push and open bed cover (B) ⑤ in the arrowed direction, and loosen nut ⑥ using the wrench supplied with the machine. Turn feed regulator ⑦ counterclockwise to increase the bar-tacking width, and vice verse. After djustment, tighten nut ⑥, and close bed cover (B) ⑤.

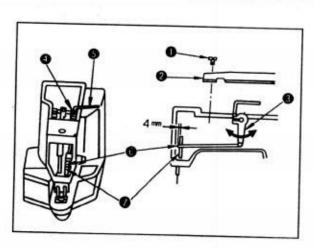
20 ADJUSTING THE FEED TIMING



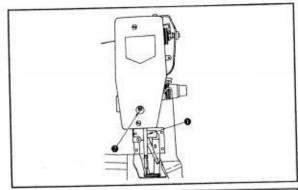
- Raise the machine head. (See "04. Raising the machine head")
- 2. Loosening hexagon nut ③ and socket screw ④, turn feed cam ⑤ to perform adjustment so that material feed is completed at the moment the point of needle ① has lowered to a height of 7 to 10mm above the surface of throat plate ②. Turning the feed cam clockwise will delay the completion of the material feed, and vice versa.
- After adjustment, securely tighten socket screw and hexagon nut
- \*Better thread tension is obtained as the above—mentioned height is adjusted to about 7mm.
  \*If starting stitches formed are loose when using a synthetic fiber thread, adjust the above—mentioned height to about 10mm in order to prevent such trouble.
- 4.Stop-motion regulating cam (f) is turned together with feed cam (f). Therefore, loosen setscrew (f) and turn the stop-motion regulating cam to make adjustment so that stop-motion regulating cam roller (f) enters stop motion from the low-speed revolution when stop-motion hook (f) falls onto stop-motion cam screw No.1 (f) at the final stitch.

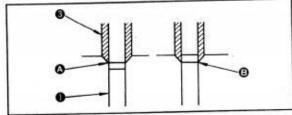
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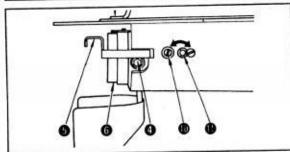
# ADJUSTING THE THREAD TENSION RELEASE TIMING

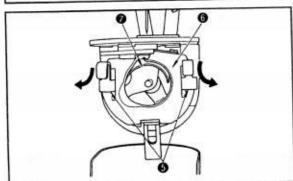


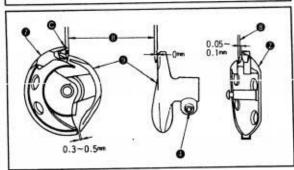
- 1. Remove five setscrews 1 to take off top cover 2.
- 2.Loosen socket screw ① of tension arm ③ by L shaped wrench ⑤, and turn the tension arm to make adjustment so that a 4mm clearance is provided between the end of connecting rod ⑥ and that of tension post support plate ⑦ when the work clamp foot is up (when connecting rod ⑥ is retreated).
- 3. After adjustment, securely tighten socket screw (1).











Adjusting the height of the needle bar

- 1.Turn the changeover pulley by hand to bring needle bar ① to the lowest position of its stroke (see "To operate the sewing machine manually").
- 2. Remove the rubber cap, and loosen setscrew 2.
- 3. Turn the driving pulley by hand to make upper marker line a engraved on the needle bar meet the bottom end of lower bushing 3 of the needle bar. Tighten setscrew 2.

Positioning the shuttle

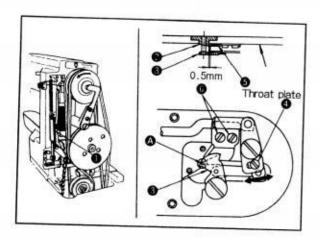
- 4.Further turn the driving pulley until lower marker line @ engraved on needle bar ① meets the bottom end of lower bushing ③ of the needle bar.
- 5.Loosen shuttle driver setscrew (1), and open shuttle race latches (3) to the right and left, respectively while pulling them towards you to remove shuttle race ring (1).

Note: At this time, be careful not to allow shuttle D to fall.

6.Perform adjustment so that no clearance is provided between the needle and the front end of shuttle driver (3) when the blade point of shuttle (4) is aligned with center (5) of needle (8). Then tighten shuttle driver setscrew (6).

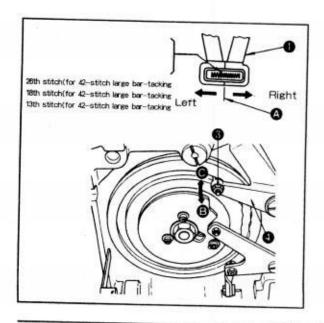
(Caution) At this time, be very careful not to cause the shuttle race to slip in the direction of rotation.

- 7.Loosening setscrew ①, turn shuttle race adjusting shaft ① clockwise or counterclockwise for adjustment to provide a 0.05 to 0.1mm clearance between needle ⑧ and shuttle ②, then tighten setscrew ②.
- 8. After adjustment, install shuttle race ring (6).



- Remove starting lever tension spring ①, and start the machine. (The work clamp foot stays down when the machine stops.)
- 2.Loosen adjusting screw ② and adjust the position of moving knife ③ in the arrowed direction to align hole ③ of the moving knife with the needle hole in needle hole guide ②.
- 3.Loosen setscrew (6) and adjust the position of counter knife (5) to provide a 0.5mm clearance between needle hole guide (2) and counter knife (5).

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ADJUSTING THE LATERAL POSITION OF THE WORK CLAMP FOOT



Loosen nut ③, and move feed across regulator in direction @ to shift lateral center ④ of work clamp foot ① to the right or in direction ⓒ to shift to the left.

For 42-stitch bar-tacking, adjust the lateral center at the 26th stitch.

For 28-stitch bar-tacking, adjust the lateral center at the 18th stitch.

For 21-stitch bar-tacking, adjust the lateral center at the 13th stitch.

Note:

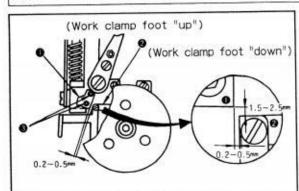
To correct a slight deviation of the lateral feed center, loosen the nut described in "19. Adjusting the length and width of bar tacking", and push the work clamp foot to the right or left by hand to make adjustment.

25

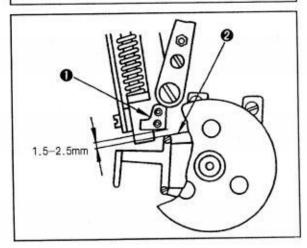
(Caution)Be careful not to cause work clamp foot lever support plate (8) to interfere with feed bracket (9). If the work clamp foot lever supper plate interferes with the wiper, readjust the height of wiper using setscrew (10). The lift of the work clamp foot can be adjusted up to 17mm.

- With the machine in stop mode, remove five setscrews ① to take off top cover ②.
- Apply L-shaped wrench ③ to socket screw
   of clamp ④ and loosen socket screw.
- 3. Push down L-shaped wrench ③ to increase the lift of the work clamp foot, or pull it up to decrease the lift.
- 4. Securely tighten socket screw (5) after adjustment.
- 5.If the right and left work clamp feet are not levelled, loosen screw (7) and adjust the position of work clamp foot lever support plate (8) to level them.

#### 26 ADJUSTING THE SAFETY PLATE



Loosening two setscrews ③, perform adjustment so that a 0.2 to 0.5mm lateral clearance is provided between safety plate ① and lifting lever ② when the work clamp foot is up at the time of stop motion, and a 1.5 to 2.5mm longitudinal clearance between them when the work clamp foot is down.



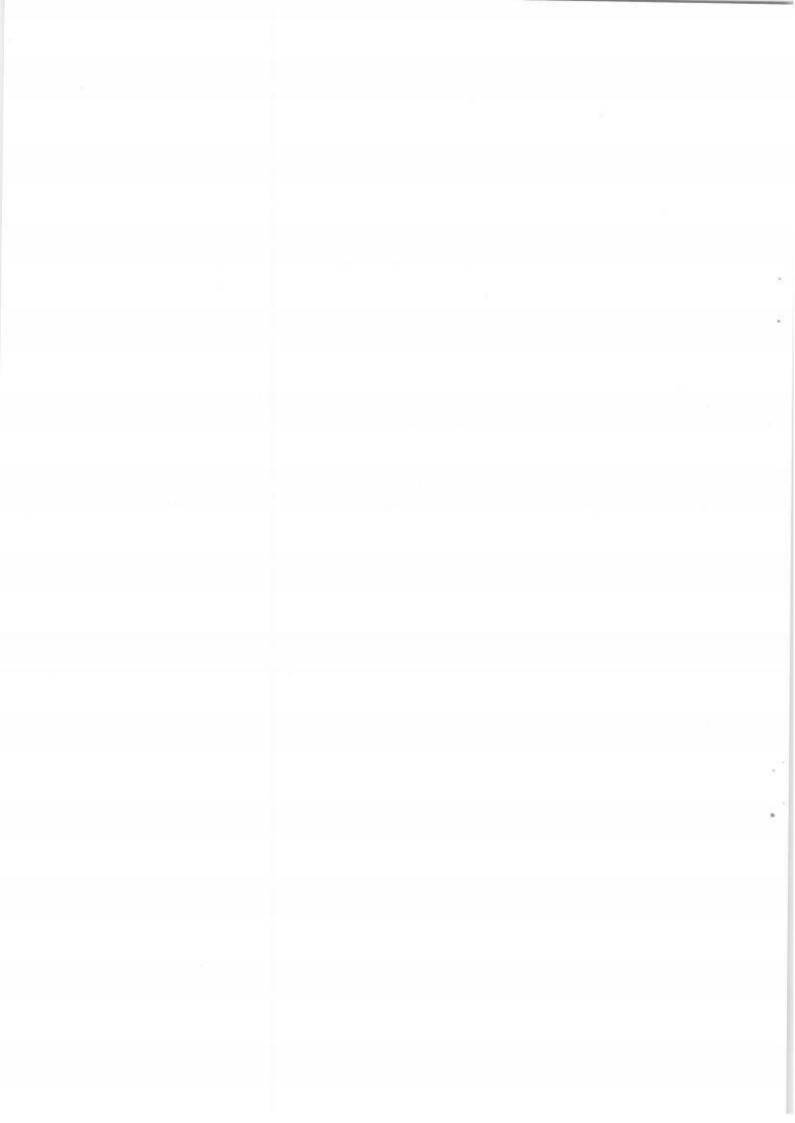
Check that the longitudinal clearance between safety plate ① and lifting lever ② is 1.5 to 2.5mm during the high-speed bar tacking (the work clamp foot is down).

# SPECIFICATIONS

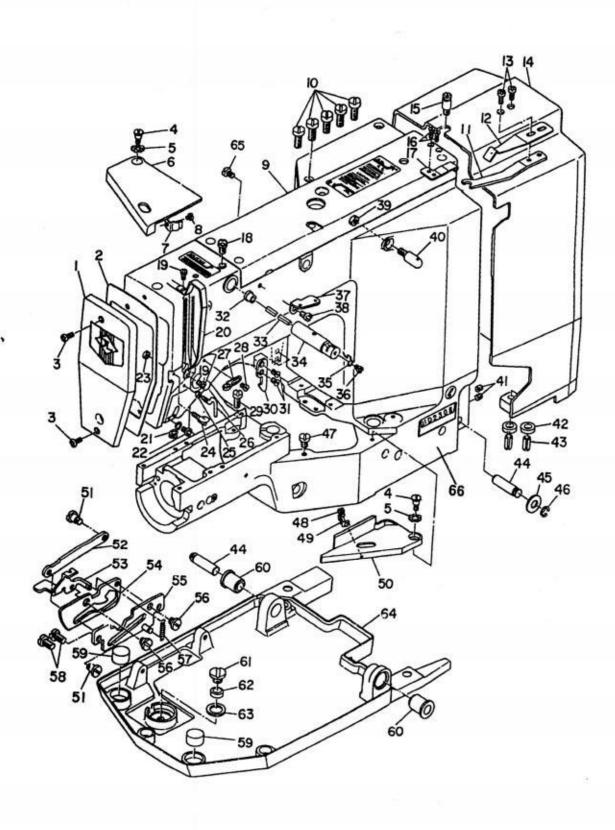
ALLECATION	SPEED	PATTERN	NUMBER OF STITCHES	BAR TACKING WIDTH	BAR TACKING	NEEDLE	NUMBER OF BAR TACKING BAR TACKING NEEDLE WORK CLAMP STITCHES WIDTH I FNGTH
							root Eiri
SMALL SIZE BAR TACKING	1800 SPM	PyAAAAAM FyAAAAAM	28	1,5-3 MM	4 – 8 MM	DPX17	MAX 17 MM
HEAVY DUTY BAR TACKING	1800 SPM	42 1 PMMAMMAM	42	1,5 - 3 MM	8 – 16 MM	DPX17	MAX 17 MM

High speed 1-Needle Cylinder Bed Lockstitch Bar Tacking Industrial Sewing Machine

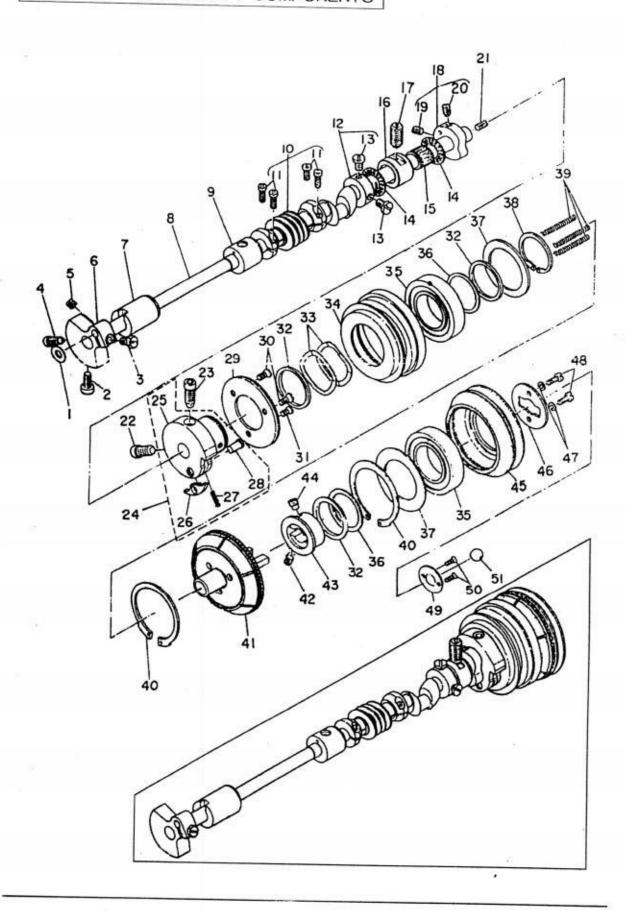
**PARTS LIST** 



01.	TRAME & MISCELLANEOUS COVER COMPONENTS — — —
02.	MAIN SHAFT COMPONENTS
03.	NEEDLE BAR COMPONENTS
04.	THREAD TENSION RELEASE COMPONENTS
05.	SHUTTLE DRIVER SHAFT COMPONENTS
06.	FEED MECHANISM COMPONENTS
07.	THREAD TRIMMING COMPONENTS
08.	PEDAL PRESSURE DECREASING UNIT COMPONENTS
09.	STOP-MOTION MECHANISM COMPONENTS
10.	LUBRICATION MECHANISM COMPONENTS
11.	TABLE COMPONENTS
12.	SAFETY PLATE COMPONENTS
13.	THREAD STAND COMPONENTS

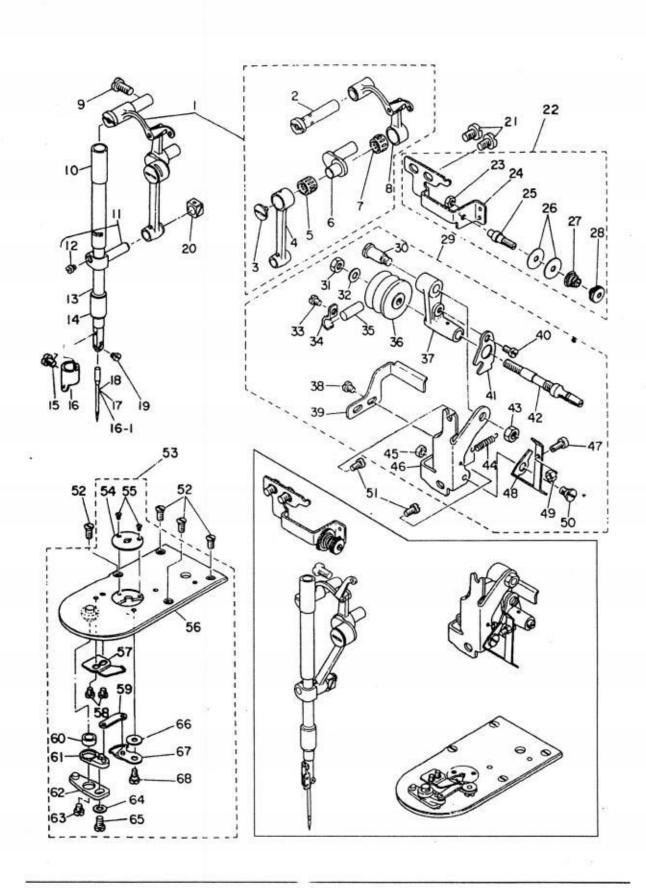


		Description	
1	D8.01-1	FACE PLATE ASM.	1
2	D8.01-2	FACE PLATE GASKET	1
3	FJ65	SCREW 11/64-40 L=10	2
4	D8.01-37	HINGE SCREW D=6.35 H=4.7	2
5	GB955	WAVED WASHER 6	2
6	D8.01-17	BED COVER B	1
7	D8.01-16	BED COVER B SPRING	1
8	FJ65	SCREW 11/64-40 L=4	1
136536	(DESIR)	TOP COVER	1
9	D8.01-4	SCREW 15/64-28 L=17.0	5
10	FJ65		1
11	D8.01-9	BELT COVER STOPPER PLATE	(
12	D8.01-8	BELT COVER PRESSER SPRING	1
13	FJ65	SCREW 11/64-40 L=8	2
14	D8.01-10	BELT COVER	1
15	D8.01-6	SPRING SUSPENSION SCREW STUD	1
16	FJ69	SCREW 9/64-40 L=8	2
17	D8.01-7	SPRING RECEIVER	1
18	D8.05-18	SILICON OIL LUBRICATING HOLE	1
600545	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SCREW 9/64-40 L=7	2
19	FJ65	THREAD TAKE-UP LEVER OIL GAURD	1
20	D8.01-3		1
21	D8.05-23	FRAME THREAD GUIDE(B)	1
22	FJ67	SCREW 11/64-40 L=6.5	1
23	FJ6170	NUT 9/64-40	1 8
24	D8.05-1	TAKE-UP THREAD GUIDE	1
25	FJ6170	NUT 9/64-40	1
26	D8.05-2	TENSION THREAD GUIDE(L-SHAPED)	1
27	D8.05-24	FRAME THREAD GUIDE A	1 .
28	FJ67	SCREW 9/64-40 L=6	1
29	FJ65	SCREW 15/64-28 L=11.5	1
(27,32)	U.S. 177-531	BED HOOK B	1
30	D8.01-26	SCREW 11/64-40 L=8.3	2
31	FJ68	1 A 17 7 A 17 A 17 A 17 A 17 A 17 A 17	1
32	D8.05-20	RUBBER PLUG	1
33	D8.05-19	SILICON OIL FELT	1 1
34	D8.05-17	SILICON OIL PIPE	
35	D8.05-16	SILICON OIL THREAD GUIDE	
36	FJ67	SCREW 11/64-40 L=5	
37	D8.05-22	THREAD GUIDE PLATE	1
38	FJ67	SCREW 15/64-28 L=7	1
39	FJ6170	NUT 15/64-28	. 1
40	D8.05-21	THREAD GUIDE NO.1	1
-	FJ74	SCREW 15/64-28 L=8	2
41	12. 12. 13. 13. 13. 13. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14	RUBBER WASHER	2
42	D8.01-11		2
43	GB879	SPRING PIN 8×16	2
44	D8.01-21	BASE CONNECTING PIN	1
45	GB848	WASHER 10	
46	GB896	SNAP RING 6	1 2
47	FJ65	SCREW 15/64-28 L=11	1 1
48	FJ65	SCREW 9/64-40 L=4.0	1
49	D8.01-20	BED COVER A SPRING	1
50	D8.01-19	BED COVER A	1
51	D8.01-31	HINGE SCREW	2
52	D8.01-29	STAY	1
53	D8.01-25	BED LOCKER	1
		STAY LOCKER	1 .
54	D8.01-24	STAY GUIDE ASM	1
55	D8.01-23.2		2
56	D8.01-28	HINGE SCREW	
57	D8.01-27	NIPPER BAR SPRING	1
58	FJ65	SCREW 15/64-28 L=12	2
59	D8.01-33	VIBRATION-PROOF RUBBER PAD	2
60	D8.01-22	RUBBER BUSHING	2
61	D8.01-36	SCREW	1
62	D8.01-35	OIL DRAIN GASKET	1
		GASKET RING	1
63	D8.01-34		1
64	D8.01-14	MACHINE BASE	10 10 10 10 10 10 10 10 10 10 10 10 10 1
65	FJ65	SCREW 11/64-40 L=7	1
66	D8.01-5.1	MACHINE HEAD ASM.	1



		Description	
1	D8.02-1	THRUST WASHER,	1
2	FJ70	SCREW 15/64-28 L=14	1
3	FJ29.1	SCREW 1/4-40 L=12	1
4	D8.02-2	SCREW	1
5	FJ74	SCREW 1/4-40 L=6	1
6	D8.02-3	COUNTERWEIGHT	1
7	D8.02-4	BUSHING, FRONT	1
8	D8.02-5	MAIN SHAFT	1
9	D8.02-6	BUSHING, INTERMEDIATE	1
10	D8.02-7	WORM ASM.	1
11	FJ67	SCREW 11/64-40 L=14	4
12	D8.02-8	THRUST COLLAR ASM.	1
13	FJ65	SCREW 1/4-40 L=11	2
14	GB4605	MAIN SHAFT THRUST BEARING	2
15	GB5846	MAIN SHAFT NEEDLE BEARING	1
16	D8.02-9	MAIN SHAFT BUSHING, REAR	1
17	D8.02-10	SCREW	1
18	D8.02-11	THREAD TRIMMING CAM ASM.	1
19	FJ80	SCREW 1/4-40 L=10	1
20	D8.02-25	SCREW	1
21	FJ73	SCREW 15/64-28 L=8	1
22	FJ70	SCREW 3/8-28 L=14.5	1
23	D8.06-1	SCREW	1
24	(100) (200) (C	STOP-MOTION CAM ASM	1
25	D8.02-12	STOP-MOTION CAM	1
26	D8.02-29	STOP-MOTION CAM LATCH	1
27	D8.02-27	SAFETY PLATE STOPPER SPRING	1
28	D8.02-28	PIN	1
29	D8.02-13.1	HIGH SPEED CLUTCH PLATE ASM.	1
30	FJ68	SCREW 11/64-40 L=8.5	2
31	FJ68	SCREW 11/64-40 L=5.5	1
32	D8.02-16	SPACER	3
33	D8.02-24	SPRING	2
34	D8.02-14	HIGH SPEED PULLEY	1
35	GB278	BEARING D=35 × 62	2
36	D8.02-20	SHIM	4-6
37	D8.02-15	WASHER	2
38	GB894.1	RETAINING RING 35	1
39	D8.02-19	SLOW SPEED PULLEY SPRING	3
10	GB893.1	RETAINING RING 62	2
11	D8.02-17.2	PULLEY ASM.	1
12	FJ80	SCREW 1/4-40 L=6.0	1
13	D8.02-22	SLOW SPEED PULLEY SHAFT	1
14	D8.02-26	SCREW	1
45	D8.02-18.3	SLOW SPEED PULLEY	1
16	D8.02-21	SLOW SPEED PULLEY PLATE	1
17	GB859	SPRING WASHER 5	2
18	FJ67	SCREW 11/64-40 L=8.5	2
19	D8.02-23	BALL RETAINER	1
50	FJ69	SCREW 9/64-40 L=7.2	2
51	GB308	STOP-MOTION BALL 12	1

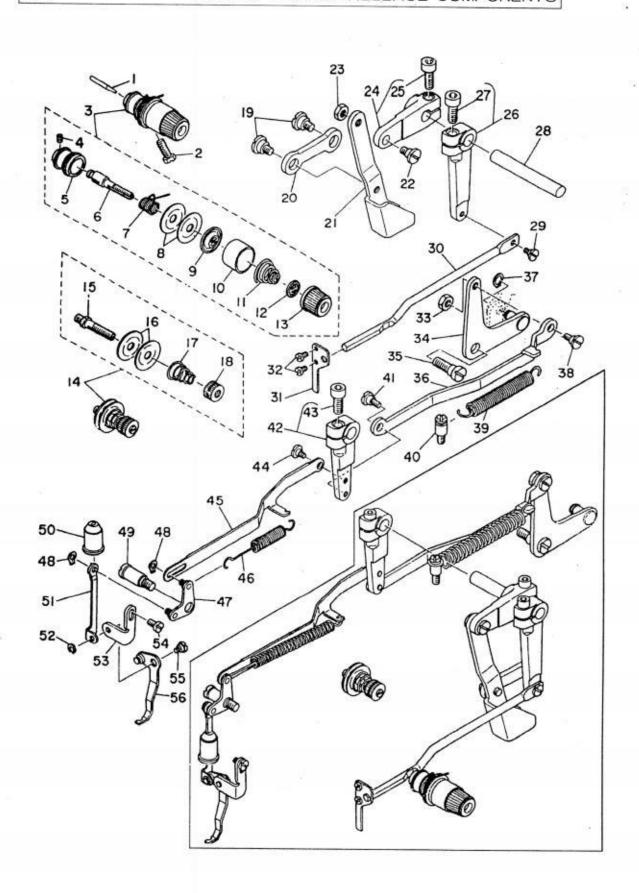
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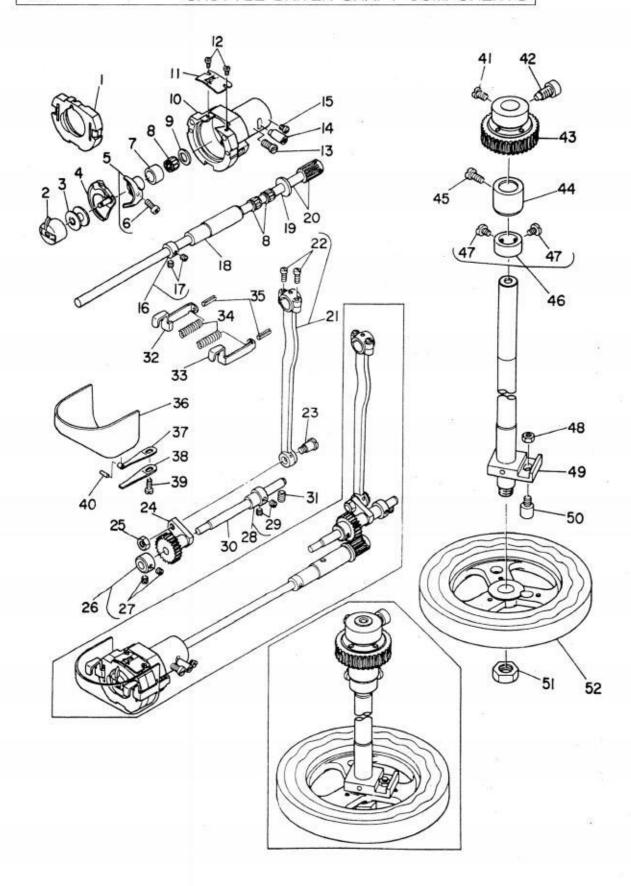
		Description
1	D8, 15-3G	THREAD TAKE-UP LEVER ASM.
2	D8.15-2	TAKE-UP LEVER PIN
3	D8.15-10	END SCREW LEFT
4	D8.15-11	NEEDLE BAR CRANK ROD
5	GB5846-86	NEEDLE DRIVING LEVER BEARING
6	D8.15-9	NEEDLE BAR CRANK
7	GB5846-86	NEEDLE BUSHING
8	D8.15-8	THREAD TAKE-UP LEVER ASM.
9	FJ65	SCREW 15/64-28 L=11
10	D8.15-1	[ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ]
11	The state of the s	NEEDLE BAR BUSHING, UPPER
	D8.15-5	NEEDLE BAR CONNECTION ASM.
12	FJ65	SCREW 9/64-40 L=6
13	E380206	NEEDLE BAR
14	D8.15-6	NEEDLE BAR BUSHING, LOWER
15	FJ65	SCREW 3/32-56 L=4,5
16	E380207	NEEDLE BAR THREAD GUIDE
18	DP × 17#19	NEEDLE#100
19	FJ65	SCREW 1/8-44 L=3.0
20	D8.15-12	CRANK SLIDE BLOCK
21	FJ67	SCREW 15/64-28 L=9
22		
23	FJ6170	THREAD GUIDE BRACKET ASM,
377		NUT 11/64-40
24	D8.03-14	THREAD GUIDE BRACKET
25	D8.03-15	BOBBIN WINDER TENSION POST
26	SJ08A.21-5	BOBBIN WINDER TENSION DISC
27	SJ08A,21-4	BOBBIN WINDER TENSION SPRING
28	D8.03-16	BOBBIN WINDER TENSION NUT
29	10300007300 = 780 /	BOBBIN WINDER ASM.
30	D8.03-6	HINGE SCREW
31	FJ6170	NUT 15/64-28
32	GB848-85	WASHER 6
33	FJ67	SCREW 11/64-40 L=5
34	D8.03-2	[4] [[1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2
	4 NEEDSTONES 19	BOBBIN WINDER BRAKE PRESSURE FLATE
35	D8.03-3	BOBBIN WINDER BRAKE
36	D8.03-7	BOBBIN WINDER WHEEL
37	D8.03-5	BOBBIN WINDER SPINDLE BUSHING
38	FJ67	SCREW 11/64-40 L=5
39	D8.03-1	BOBBIN WINDER BELT SUPPORT
40	FJ67	SCREW 11/64-40 L=7
41	D8.03-12	BOBBIN WINDER TRIP LATCH
42	D8.03-4	
43	FJ6170	BOBBIN WINDER SPINDLE
2000		NUT 15/64-28
44	D8.03-10	SPRING
45	FJ6170	NUT 11/64-40
46	D8.03-13	BOBBIN WINDER BASE
47	D8.03-11	BOBBIN WINDER ADJUSTING SCREW
48	D8.03-9	BOBBIN WINDER TRIP LATCH
49	FJ6170	NUT 11/64-40
50	D8.03-8	HINGE SCREW
51	FJ67	SCREW 11/64-40 L=8.5
52	FJ68	SCREW 11/64-40 L=5.5
53	11.17.17.18.11	NEEDLE PLATE ASM.
54	D8.16-14	
55	FJ68	NEEDLE PLATE NEEDLE HOLE GUIDE
	10775500	SCREW 3/32-56 L=2.2
56	D8.16-1;9	NEEDLE PLATE ASM.
57	D8.16-6	COUNTER KNIFE
58	FJ67	SCREW 9/64-40 L=3.5
59	D8.16-4	MOVING KNIFE CONNECTING LINK
60	D8.16-10	COLLAR
61	D8.16-7;8	MOVING KNIFE DRIVING LEVER ASM,
62	D8.16-5.1	MOVING KNIFE DRIVING LEVER ASM.
63	FJ65	
B4	GB848-85	SCREW 11/64-40 L=4.0
65	200,00000	WASHER
	FJ67	SCREW 11/64-40 L=6.5
56	D8.16-13	WASHER
67	D8.16-3;12	MOVING KNIFE ASM.
38	D8.16-2	HINGE SCREW

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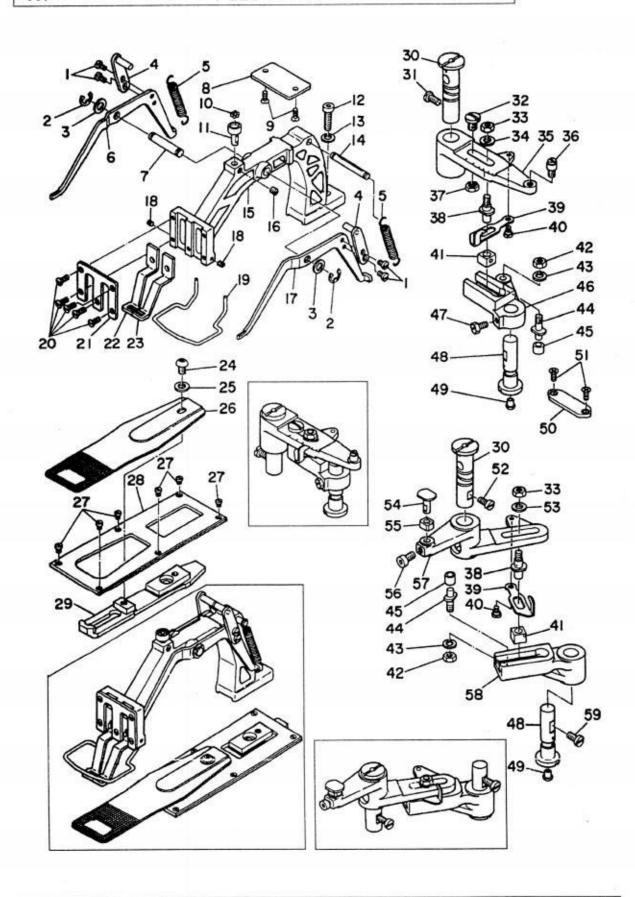


		Description	
1	Y01.06-2	TENSION RELEASE PIN	T
2	FJ65	SCREW 15/64-28 L=17	ı
3	1	TENSION CONTROLLER, NO.2 ASM.	ı
4	FJ75	SCREW 9/64-40 L=5.9	
5	D8.05-7	TENSION POST SOCKET	
6	D8.05-11	TENSION POST, NO.2	
7	E380204	THREAD TAKE-UP SPRING	
8	SJ15-368	TENSION DISC	
9	SJ15-369	TENSION DISC HOLDER	
10	Y01.06-1	TENSION DISC PRESSER TUBE	
11	E380205	TENSION SPRING, NO.2	H
12	SJ15-371	TENSION DISC STOPPER	
13	D8.05-12.1	TENSION NUT	
14	50,00 12.1		
15	D8.05-14	TENSION CONTROLLER NO.1 ASM	
16	SJ15-368	TENSION POST NO.1	
17		TENSION DISC	
18	SJ15-370	TENSION SPRING NO.1	
9.5	D8.05-13	TENSION NUT, NO.1	
19*	D8.07-9	HINGE SCREW	
20*	D8.07-6	CONNECTING LINK	
21*	D8.07-4	LOWERING FOOT	
22*	D8.07-10	HINGE SCREW	
23*	FJ6170	NUT 15/64-28	
24*	D8.07-5	LOWERING ARM ASM.	
25	FJ70	SCREW 15/64-28 L=16.5	
26	D8.05-3	TENSION RELEASE ARM ASM	
27	FJ70	SCREW 15/64-28 L=16.5	
28	D8.04-26	SHAFT	
29	D8.05-5	HINGE SCREW	
30	D8.05-4	TENSION RELEASE BAR	
31	D8.05-6	SUPPORTER	-
2	FJ67	SCREW 9/64-40 L=6	
13	FJ6170	NUT 15/64-28	
4	D8.04-15.3	LOWERING CONNECTING LEVER ASM.	
5*	D8.04-14		
6	D8.04-9	HINGE SCREW	
7		LOWERING CONNECTING LINK	
1	GB894.1-86	RETAINING RING 8	
8	D8.04-12	HINGE SCREW	
9	D8.04-11	TENSION SPRING	
0	D8.04-10	SUSPENSION SCREW (B)	
1	D8.04-18	HINGE SCREW	
2*	D8.04-8	CONNECTING ARM ASM.	
3	FJ70	SCREW 15/64-28 L=16.5	
4	D8.04-17	HINGE SCREW	
5	D8.04-7	WIPER CONNECTING LINK	
6	D8.04-6	SPRING	
7	D8.04-5.2	WIPER CONNECTING ARM ASM.	
В	GB894.1-86	RETAINING RING 5	
9	D8.04-16	WIPER CONNECTING SCREW	
0	D8.04-3	OIL SHIELD CAP	
1	D8.04-4	WIPER CONNECTING PLATE	-
2	GB894, 1-86	SNAP RING	
3	D8.04-2		
4	FJ65	WIPER INSTALLING PLATE	
5	D8.04-19	SCREW 11/64-40 L=8	
6		HINGE SCREW	3
W	D8.04-1.1	WIPER ASM	9.74



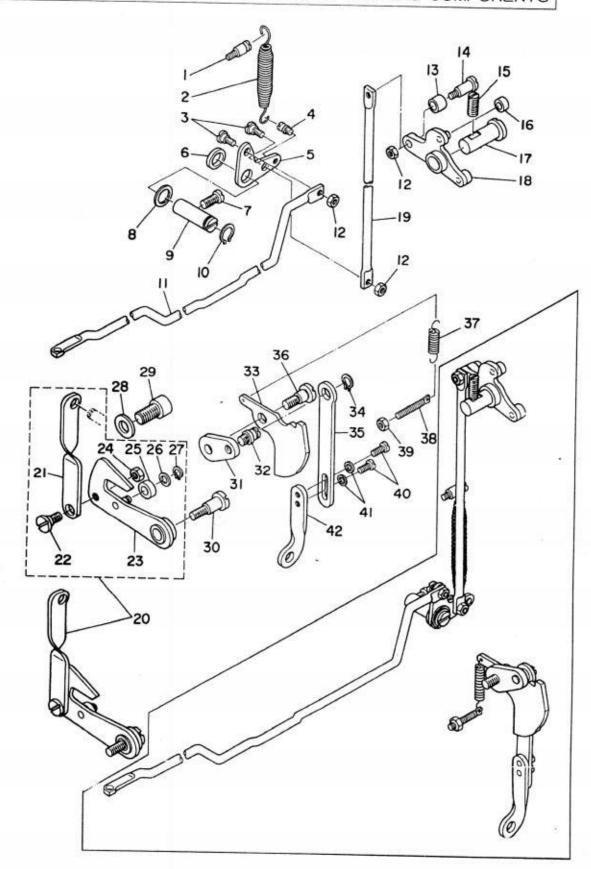
		Description
1	D8.26-3	SHUTTLE RACE RING ASM.
	Y01.08-24	
2	GB4523-84	BOBBIN CASE ASM.
3	GB4522-84	BOBBIN
4	D1818-282-NOO'	SHUTTLE
5	D8.14-3	
6		SHUTTLE DRIVER ASM.
7	GB70	SCREW M5 × 12
	D8.14-4	BUSHING
8	GB5846-86	BEARING B
9	D8.14-5	WASHER
10	D8.14-6	SHUTTLE RACE
11	D8.14-16	SHUTTLE RACE SPRING
- 12	FJ65	SCREW 3/32-56 L=3.5
13	FJ65	SCREW 15/64-28 L=11.5
14	D8.14-15	SHUTTLE RACE ADJUSTING SHAFT
15	FJ65	SCREW 11/64-40 L=5
16	D8.14-8	THRUST COLLAR A
17	FJ74	SCREW 11/64-40 L=4.5
18	D8.14-9	BUSHING REAR
19	D280516	THRUST WASHER
20	D8.14-7:20	SHUTTLE DRIVER SHAFT ASM.
	GB117	
	FJ74	SCREW 11/64-40 L=3.3
21	D8.14-13/14	CRANK ROD ASM.
22	FJ65	SCREW 11/64-40 L=10.5
23	D8.14-12	
24	D8.14-11	HINGE SCREW
25	FJ6170	OSCILLATING ROCK SHAFT
26		NUT 1/4-40
100	D8.14-10	THRUST COLLAR ASM.
27	FJ74	SCREW 11/64-40 L=4,5
28	D8.14-21	THRUST COLLAR ASM.
29	FJ74	SCREW 11/64-40 L=4.5
30	D8.14-22	OSCILLATING ROCK SHAFT PIN
31	FJ74	SCREW 15/64-28 L=8
32	D8.14-24	SHUTTLE RACE LATCH, LEFT.
33	D8.14-23	SHUTTLE RACE LATCH(RIGHT)
34	Y01.08-27	SPRING, FOR SHUTTLE RACE
35	GB879-86	SPRING PIN 2.5×16
36	D8.14-1.1	CYLINDER ARM CAP ASM.
37	D8.14-17	CYLINDER ARM CAP SPRING A
38	D8.14-18	CYLINDER ARM CAP SPRING B
39	FJ65	SCREW 11/64-40 L=11
40	GB119-86	PIN B2 × 10
41	FJ65	SCREW 1/4-40 L=11
42	D8.06-1	SCREW
43	D8.06-2.1	WORM WHEEL ASM.
44	D8.06-3	WORM WHEEL SHAFT BUSHING
45	FJ65	SCREW 15/64-28 L=17.0
46	D8.06-4	
47	SJ08.4-11	THRUST COLLAR ASM.
48	FJ6170	SCREW
		NUT 1/4-40
49	D8.06-5	WORM WHEEL SHAFT ASM.
	D8.06-6	
-	GB117	Participation and American American
50	D8.06-9	CAM GUIDE PIN
51	D8.06-8	NUT
52	D8.06-7	FEED CAM

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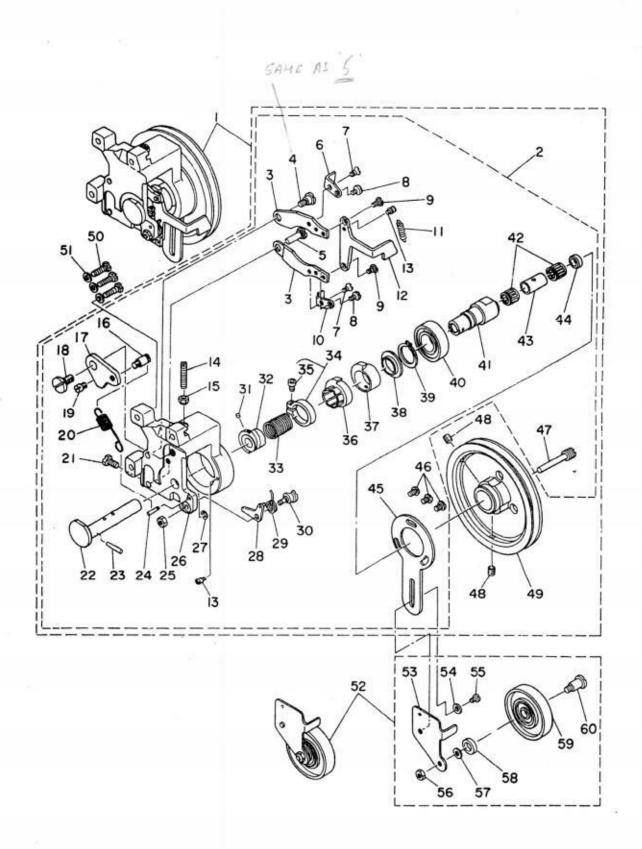


			Description	
	1	FJ67	SCREW 11/64-40 L=6.5	4
51	2	GB896	SNAP RING 6	2
	3	D8.07-21	WASHER	2
	4	D8.07-22.1 D281101	LEVER DRIVING PLATE ASM.	2
	5		TENSION SPRING	1
	6 7	D8.07-19	LIFTING LEVER CHAST	. 8
	23	D8.07-20	LIFTING LEVER SHAFT	1
	8:	D8.07-3	SUPPORT PLATE	1
	9	FJ69	SCREW 11/64-40 L=8.5	2
	10	GB308	WORK CLAMP FOOT MOUNTING BASE BALL	
	11	D8.07-2	BALL RETAINER	1
	12	FJ70	SCREW 15/64-28 L=22.0	1
	13	GB96	WASHER 6	1
0)	14 15	D8.07-23G D281105	SPRING SUSPENSION FEED BRACKET	1
	16	FJ74	SCREW 15/64-28 L=4.7	1
	17	D8.07-18	LIFTING LEVER, RIGHT	i
	18	FJ74	SCREW 1/8-44 L=2.8	2
	19	D8.07-16	FINGER GUARDE	1
	20	FJ69	SCREW 11/64-40 L=7.5	5
£3	21	D8.07-17	WORK CLAMP FOOT FACE PLATE	1
	22	D281116	WORK CLAMP FOOT, LEFT	1
	23	D281115	WORK CLAMP FOOT, RIGHT	1
	24	D8.07-7	SCREW	1
	25	GB848	WASHER 6	1
	26	D8.26-2	FEED PLATE	1
	27	FJ65	SCREW 11/64-40 L=5	6
	28	D8.07-12	FEED PLATE PRESSER PLATE	1
	29	D8.07-11	FEED PLATE CARRIER BAR	1
	30	D8.08-11	FEED DRIVING ARM SHAFT	2
	31	FJ65	SCREW 15/64-28 L=11.5	1
	32	FJ67	SCREW 5/16-24 L=10	1
	33	FJ6170	NUT 15/64-28	2
	34	D8.08-2	WASHER	1
23	35	D8.08-17	FEED REGULATOR	1
	36	D8.08-15	HINGE STUD	1
	37	FJ6170	NUT 5/16-24	1
	38 39	D8.08-3	FEED REGUL ATOR STUD	2
	40	D8.08-1 D8.08-4	INDICATOR LEVER HINGE SCREW	2
	41	D8.08-10	SLIDE BLOCK B	2
	42	FJ6170	NUT 1/4-40	2
	43	GB97.1	WASHER 6	2
2.	44	D8.08-6	FEED CAM ROLLER SHAFT	2
	45	D8.08-5	FEED CAM ROLLER	2
	46	D8.08-16	FEED DRIVING ARM	1
-	47	FJ29.1	SCREW 15/64-28 L=14	1
	48	D8.08-8	FEED REGULATOR SHAFT	2
	49	D8.08-9	RUBBER PLUG	2
	50	D8.07-24	PLATE	1
	51	FJ68	SCREW 11/64-40 L=8.3	2
90	52	FJ65	SCREW 15/64-28 L=11.5	1
. 33	53	D8.08-2	WASHER	1
	54	D8.08-14	SLIDE BLOCK STUD	1
	55	D8.08-13	CRANK SLIDE BLOCK	1
	56	FJ70	SCREW 15/64-28 L=10.5	1
	57	D8.08-12	FEED ACROSS DRIVING ARM	1
	58	D8.08-7	FEED ACROSS REGULATOR	1
	59	FJ65	SCREW 15/64-28 L=11.5	1

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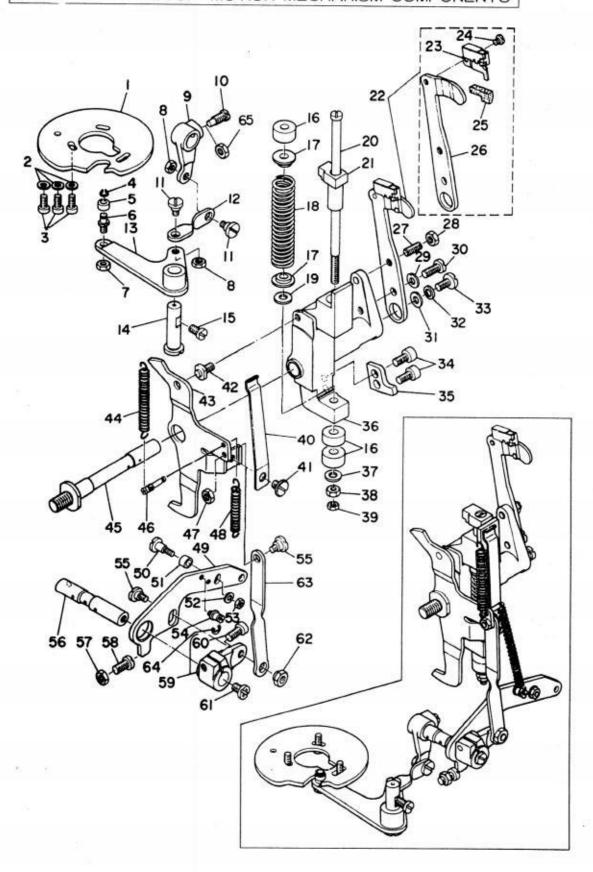


		Description
		Description
	D8.09-13	SUSPENSION SCREW B
	D8.09-14.2	TENSION SPRING
	D8.09-2	HINGE SCREW
	D8.09-10	HOOK SPRING SUSPENSION
	D8.09-15	CONNECTION LINK
	D8.09-8	CONNECTION FING
	FJ65	SCREW 15/64-28 L=14
3	D8.09-3	WASHER
,	D8.09-9	STUD
0	GB894.1-86	RETAINING RING 11
1	D8.09-1	KNIFE DRIVING BAR, LARGE
12	FJ6170	NUT 3/16-28
3	D8.09-5	ROLLER A
4	D8.09-4	HINGE SCREW
5	FJ75	SCREW 9/32-28 L=19
6	D8.09-11	CAM ROLLER
7	D8.09-7	CAM STUD
8	D8.09-6.1	KNIFE DRIVING ROD TRIPPING ASM
19	D8.09-12	KNIFE DRIVING BAR, SMALL
20	20.00	LOWERING LINK ASM:
1	D8.04-13	LOWERING LINK
2	D8.04-23	HINGE SCREW
3	D8.04-24.4	LOWERING LEVER ASM.
4	FJ6170	NUT 15/64-28
5	D8.04-21	ROLLER
26	D8.04-22	WASHER
7	GB894.1-86	STOP RING
.8	D8.04-25	WASHER
29	FJ70	SCREW 3/8-28 L=14.5
90	D8.04-20	HINGE SCREW
	D8.10-7	AUXILIARY LEVER
2	D8.10-4	SHAFT
33	D8.10-3	THREAD TRIMMING AUXILIARY CA
34	GB894.1-86	RETAINING RING 8
35	D8.10-2	CONNECTING PLATE B
36	D8.10-5	HINGE SCREW
37	D8.10-6	SPRING
38	D8.10-8	TENSION SPRING ADJUSTING SC
9	FJ6170	NUT 11/64-40
10	FJ67	SCREW 11/64-40 L=8.5
11	GB848-85	WASHER 5
12	D8.10-1	CONNECTING PLATE A

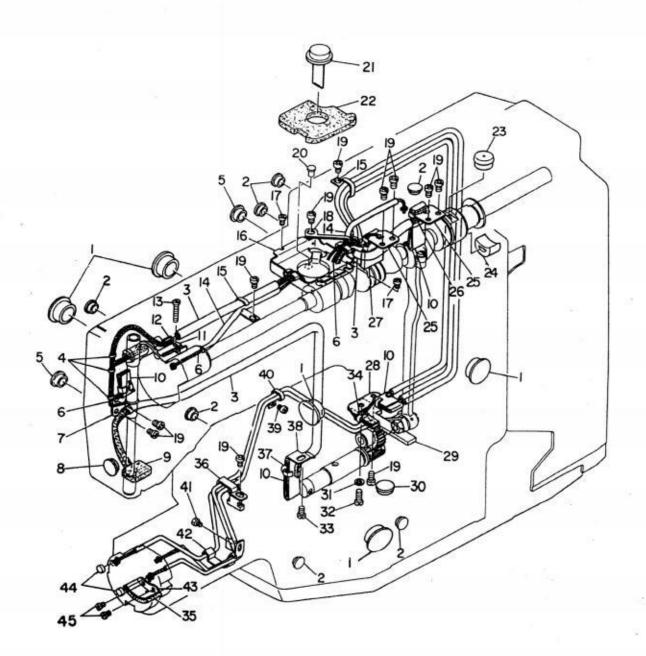


			Description	
1	D8.11	7.	PRESSURE DECREASING DEVICE	
2	D8.11		PRESSURE DECREASING DEVICE	8
3	D8.11-3		PRESSURE DECREASING LEVER	3
4	D8.11-4		HINGE SCREW	100
52			STUD	3
5	D8.11-4			
6	D8.11-2		LEVER LATCH A	
7	FJ69		SCREW 11/64-40 L=8.5	27.5
В	FJ67		SCREW 11/64-40 L=6.5	1
9	D8.11-34		HINGE SCREW	3
10	D8.11-35		LEVER LATCH B	33
11	D8.11-33	-	SPRING	
12	D8.11-1		PRESSURE DECREASING LEVER LINK	
13	D8.11-32		HOOK SPRING SUSPENSION	3
14	FJ73		SCREW 15/64-28 L=30	
9503 I	D8.11-14		NUT	
15			SUSPENSION PIN	
16	D8.11-18			
17	D8.1117		AUXILIARY CAM	
18	D8.11-6		HINGE SCREW	
19	FJ65		SCREW 11/64-40 L=7	
20	D8.11-31		SPRING	133
21	FJ29.1		SCREW 15/64-28 L=10.5	
22	D8.11-5		PRESSURE DECREASING SHAFT	
23	GB117-86		TAPERED PIN 4×22	
24	D8.11-29		PIN	
25	FJ6170		NUT 11/64-40	
26	D8.11-13		PRESSURE DECREASING UNIT FRAME	
27	GB896-86	1	E-RING	
300		k	ROTATION PREVENTING LATCH ASM.	i.
28	D8.11-26		SPRING	
29	D8.11-28		NOTE OF THE PROPERTY OF THE PR	
30	D8.11-27	2	HINGE SCREW	-
31	FJ74		SCREW 11/64-40 L=5	
32	D8.11-30		DECREASING CLUTCH ASM.	
	GB119		DECREASING CLUTCH ASM.	
33	D8.11-36		CLUTCH SPRING	
34	D8.11-24		THRUST COLLAR ASM.	S
35	FJ70		SCREW 3/16-28 L=12.0	3
36	D8.11-25	100	-INNER SLEEVE	8
37	D8.11-7.1		OUTER SLEEVE	3
38	D8.11-8		OUTER SLEEVE GUIDE	8
	5 77 F		SNAP RING 20	3
39	GB894.1-86			1
40	GB278-89		BEARING D=20×42	450
41	D8.11-10		SHAFT	I Po
42	GB5846-86		BEARING D=12×15	P
43	D8.11-9		COLLAR A	
44	D8, 11-16	1 - 1	COLLAR B	
45	D8, 11-19		IDLER PULLEY INSTALLING PLATE	
46	D8.11-15		SCREW	
47	D8.11-11		SCREW	
48	FJ74		SCREW 15/64-28 L=8	1
49	D8, 11-12		DRIVING PULLEY	
50	FJ29.1		SCREW 15/64-28 L=20.5	
51	GB848-85	-	WASHER 6	-
	G004000			
52	D0 44 00		IDLER PULLEY ASM.	
53	D8.11-20		IDLER PULLEY BRACKET	
54	GB84885		WASHER 6	
55	FJ65		SCREW 15/64-28 L=6.5	
	FJ6170		NUT 15/64-28	
56	GB96-85		WASHER 6	
56 57	GD90-03			4
	D8.11-22		TENSION RING	
57 58	D8.11-22		I A A THE THE SECOND SE	
57			TENSION RING IDLER PULLEY ASM. BEARING D=12 × 32	

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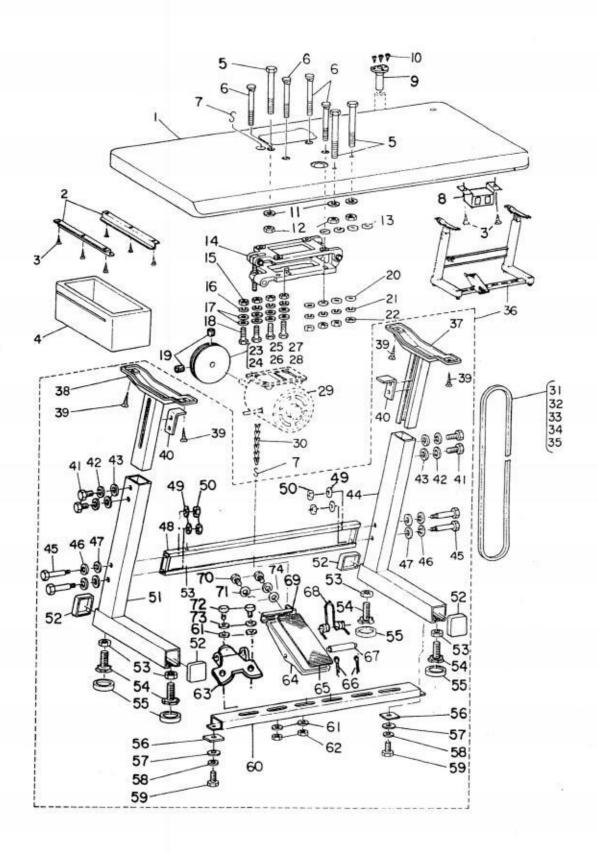
		Description
1	D8.26-1	STOP-MOTION REGULATING CAM
2	GB97,1-85	WASHER 5
3	FJ70	SCREW 3/16-28 L=12.0
	- A. 35 A 35 A	RETAINING RING 5
4	GB894.1-86	ROLLER
5	D8. 12-31	ROLLER SHAFT
3	D8.12-30	
7	FJ6170	NUT 15/64-28
В	FJ6170	NUT 15/64-28
3	D8, 12-6	STOP-MOTION ARM B
10	D8. 12-7	SCREW 9/32-28 L=16.5
11	D8, 12-3	HINGE SCREW
12	D8.12-4	STOP-MOTION LINK
13	D8.12-2	REGULATING LEVER ASM.
14	D8. 12-29	REGULATING LEVER STUD
15	FJ65	SCREW 15/64-28 L=11
16	D8. 12-19	RUBBER CUSHION
17	D8, 12-20	WASHER
18	D8. 12-21	PRESSURE SPRING
19	GB97.1-85	WASHER 8
20	D8. 12-18	STOP LINK ROD
21	D8. 12-17	STOP-MOTION HOOK
22		GREASE BOX ASM.
23	D8, 12-13	GREASE BOX
24	FJ65	SCREW 11/64-40 L=5
25	D8. 12-14	FELT
26 26	D8. 12-15	PULLEY PRESSING PLATE
		SCREW
27	D8. 12-12	NUT 15/64-28
28	FJ6170	WASHER 6
29	GB97.1-85	SCREW 15/64-28 L=14
30	FJ65	WASHER6
31	Y01,12-10	SPRING WASHER 6
32	GB93-87	SCREW 15/64-28 L=13.0
33	FJ947	
34	FJ70	SCREW 15/64-28 L=14
35	D8. 12-34	SAFETY PLATE
36	D8. 12-11	STOP- MOTION LEVER
37	GB96-85	WASHER 6
38	D8. 12-23	NUT
39	FJ6170	NUT 15/64-28
40	D8. 12-10	STOP-MOTION LEVER PLATE SPRING
41	FJ947	SCREW 9/32-28 L=6
42	D8.12-8	GUIDE PIN
43	D8. 12-16	DRIVING PLATE
44	D8. 12-9	TENSION SPRING
45	D8. 12-35	STOP-MOTION LEVER SHAFT
45 46	D8. 12-36	SPRING SUSPENSION
40 47	FJ6170	NUT 15/64-28
		TENSION SPRING
48	D8.12-33	STARTING LEVER
49	D8. 12-27	HINGE SCREW
50	D8. 12-24	SLIDE ROLLER
51	D8. 12-25	
52	GB97.1-85	WASHER 5
53	FJ6170	NUT 11/64-40
54	D8.12-32	SUSPENSION SCREW
55	D8. 12-3	HINGE SCREW D=8 H=4
56	D8.12-5	STOP-MOTION ARM SHAFT
57	FJ6170	NUT 15/64-28
58	FJ65	SCREW 15/64-28 L=14
59	D8. 12-28	STOP-MOTION ARM A ASM.
60	FJ70	SCREW 15/64-28 L=16.5
61	FJ65	SCREW 15/64-28 L=9
62	D8.12-26	NUT
63	D8. 12-22	STOP-MOTION CONNECTING LEVER
64	GB896-86	SNAP RING 4
	- GEOGG - OU	the second secon



		Description	
1	D8.13-15	RUBBER PLUG	5
2	D8.13-12	RUBBER PLUG	7
3	HG2-775-74	VINYL TUBE, WHITE D=6	0.7m
4	D8.13-5	OIL WICK HOLDER	3
5	D8.13-1	RUBBER PLUG	2
6	FZ340-76	OIL WICK	4.7m
7	Y01.13-3	OIL WICK HOLDER	1
8	D8.13-1	RUBBER PLUG	1
9	D8.13-2	OIL FELT	1
10	D8.13-4	OIL SPONGE	4
11	D8.13-6	OIL SPONGE	1
12	D8.13-7	LUBRICATING PLATE	1
13	FJ65	SCREW 9/64-40 L=21	1
14	HG2-775-74	VINYL TUBE, WHITE D=3	2.5
15	D8.13-8	OIL WICK HOLDER	2
16	D8.13-21	OIL TANK	1
17	FJ65	SCREW 9/64-40 L=5	2
18	D8.13-22	OIL WICK HOLDER	1
19	FJ65	SCREW 11/64-40 L=7	11
20	D8.13-29	RUBBER PLUG	1
21	D8.13-10	OIL GAUGE	1
22	D8.13-9	OIL TANK FELT	1
23	D8.13-13	GREASE CAP	1
24	D8.13-14	BUSHING	1
25	Y01, 13-11	OIL FELT INSTALLING PLATE	2
26	D8.13-20	OIL FELT	1
27	D8.13-11	OIL FELT	1
28	D8,13-28	OIL FELT SUPPORTING PLATE	1
29	D8.13-27	OIL WICK SUPPORTING FELT	1
30	D8.13-18	RUBBER PLUG	1
31	GB96-85	WASHER 5	1
32	FJ65	SCREW 11/64-40 L=11	1
33	FJ65	SCREW 11/64-40 L=5	1
34	D8.13-26	OIL TANK FELT	1
35	D8.13-19	OIL FELT, FOR SHUTTLE RACE	1
36	D8, 13-16	OIL TUBE HOLDER A	1
37	D8.13-3	OIL FELT	1
38	D8.13-17	OIL FELT HOLDER	1
39	FJ65	SCREW 11/64-40 L=5	1
40	D8.13-8	OIL TUBE HOLDER	1
41	FJ5783	SCREW 11/64-40 L=5.3	1
42	D8.13-25	OIL TUBE HOLDER B	1
43	Y01.08-9	PRESSER PLATE	1
44	D8.13-24	SHUTTLE RACE CAP	2
45	FJ65	SCREW 9/64-40 L=4.0	2

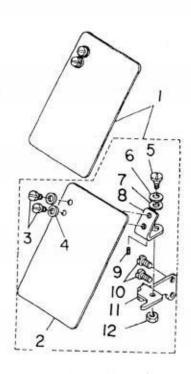
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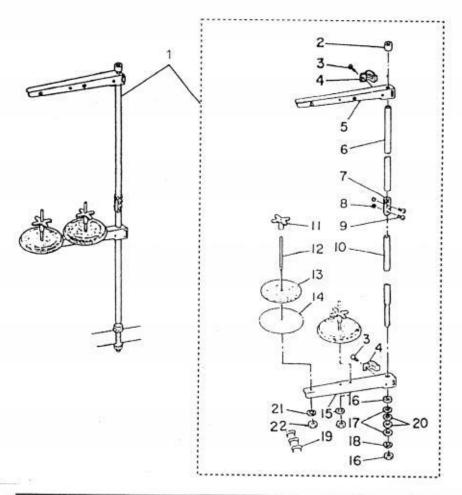


		Description
1	D8.17-1	TABLE
2	50,11	DRAWER SUPPORT
3	GB99-86	WOOD SCREW D-4 L=20
4	/	DRAWER
5	GB29.1	SCREW M6 L=70
6	GB14	SCREW M8 L=70
7	DSY01.02F-1	S SHAPED HOOK
8	LC2-5	MOTOR SWITCH
9	SJ08.2-4	OIL DRAIN PIPE
10	GB99	WOOD SCREW D-4 L=12
11	GB96	WASHER 6
12	GB6170	NUT M6
13	D8.17-2	RUBBER CUSHION
14		MOTOR BASE ASM.
15	GB6170	NUT M6
16	GB93	SPRING WASHER 6
17	GB96	WASHER 6
18	GB5783	SCREW M6 L=30
19	GB80	SCREW M6 L=8
20	GB97, 1-85	WASHER 8
21	GB93-87	SPRING WASHER 8
22	GB6170	NUT M8
23	D8.18-1	MOTOR PULLEY 50HZ 1800SPM
24	D8.18-4	MOTOR PULLEY 50HZ 2000SPM
25	D8.18-5	MOTOR PULLEY 50HZ 2300SPM
26	D8.18-6	MOTOR PULLEY 60HZ 1800SPM
27	D8.18-7	MOTOR PULLEY 60HZ 2000SPM
28	D8.18-8	MOTOR PULLEY 60HZ 2300SPM
29		MOTOR 370W
30		CHAIN
31	D8.18-2	V-BELT ,46 INCH
32	D8.18-3	V-BELT ,48 INCH
33	D8.18-9	V-BELT ,47INCH
34	D8.18-10	V-BELT ,49 INCH
35	D8.18-11	V-BELT ,50 INCH
36	DSY01.02F	TABLE STAND ASM.
37	DSY01.02F-11	HEIGHT ADJUSTING STAND ASM., R.
38	DSY01.02F-12	HEIGHT ADJUSTING STAND ASM., L.
39	GB100	WOOD SCREW D=5,L=38
40	DSY01.02F-13	TABLE SUPPORT
41	GB5783	SCREW M8,L=16
42	GB859	SPRING WASHER 8
43	GB96	WASHER 8
44	DSY01.02F-10	STAND (RIGHT) ASM.
45	DSY01.02F-15	HINGE SCREW
46	GB859	SPRING WASHER 12
47	GB96	WASHER12
48	DSY01.02F-8	STAND SIDE SUPPORT ASM.
49	GB96	SCREW M8
50	GB6170	NUT M8
51	DSY01.02F-14	STAND ASM.
52	DSY01.02F-5	RUBBER CAP
53	GB6170	NUT M12
54	DSY01,02F-4	ADJUSTING SCREW ASM.
55	DSY01.02F-6	LEG SUPPORT CAP
56	DSY01.02F-3	LEG BOTTOM SUPPORT BRACKET
57	GB96	WASHER 8
58	GB859	SPRING WASHER 8
59	GB5783	SCREW M8 L=16
60	DSY01.02F-7	LEG BOTTOM SUPPORT
61	GB96	WASHER 8
62	GB6170	NUT M8
63	DSY01.02F-2-3	PEDAL SHAFT BRACKET
64	DSY01.02F-2-2	PEDAL
65	DSY01.02F-2-5	PEDAL MAT
	GB91	SPLIT PIN 1.8×16
66	DSY01.02F-2-4	PEDAL CONNECTING ROD
67		SPRING
68	DSY01.02F-2-6	PEDAL ADJUSTING PLATE
69	DSY01.02F-2-1	SCREW M6 L=10
70	GB5783	SPRING WASHER 6
71	GB859	SCREW MB L=16
72	GB5783	SPRING WASHER 8
73	GB859	SPHING WASHEN 0

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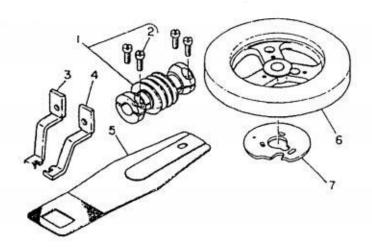
		Description	Ì
1		SAFETY PLATE ASM.	
2 3	D8.19-1	SAFETY PLATE	
3	FJ67	SCREW 11/64-40 L=7	
4	GB97.1	WASHER 5	
5	D8.19-5	HINGE SCREW	
6	D8.19-4	DISC SPRING	
7	D8.19-3	WASHER	_
8	D8.19-6	SAFETY PLATE INSTALLING PLATE	
9	GB879	STOPPER PIN	
10	FJ67	SCREW 11/64-40 L=7	
11	D8.19-2	SAFETY PLATE MOUNTING BASE	
12	FJ6170	NUT 3/16-32	

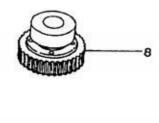


		Description	
1		THREAD STAND ASM.	1
2	D8.20-1	SPOOL REST ROD RUBBER CAP	1
3	GB67	NUT M6 L=16	2
4	D8.20-3	THREAD GUIDE ARM JOINT	2
5	D8.20-4	THREAD GUIDE ASM.B	1
6	D8.20-2	SPOOL REST ROD UPPER	1
7	D8.20-6	SPOOL REST ROD JOINT	1
8	GB6170	NUT M5	2
9	GB67	SCREW M5 L=14	2
10	D8.20-7	SPOOL REST ROD LOWER	1
11	D8.20-12	SPOOL RETAINER	2
12	D8.20-13	SPOOL PIN	2
13	D8.20-8	SPOOL REST CUSHION	2
14	D8.20-11	SPOOL REST	2
15	D8.20-4	SPOOL REST ASM. B	1
16	D8.20-9	NUT	2
17	GB95	WASHER 16	2
18	GB859	SPRING WASHER 16	1
19		STAPLE	3
20	D8.20-10	RUBBER WASHER	2
21	GB859	SPRING WASHER	2
22	GB6170	NUT M5	2



## BT 1850-28 PARTS





2,000		Description	
1	D8.02-30	WORM ASM	1
2	FJ67	SCREW 11/64-40 L=14	,
3	D8.07-26	WORK CLAMP FOOT LEFT	1
4	D8.07-27	WORK CLAMP FOOT RIGHT	1
5	D8.07-25	FEED PLATE	1
6	D8.06-10	FEED CAM	1
7	D8.12-37	STOP-MOTION REGULATION CAM	,
8	D8.06-11.2	FEED CAM DRIVING WHEEL ASM	1

