JUKI

High-speed, Feed-off-the-arm, Double Chainstitch Machine

MS-1261·1261M
MS-1260
INSTRUCTION MANUAL

No. 00
29161304

Congratulations on your purchase of a JUKI sewing machine.
To get the most out of many functions of the machine and operate it in safety, it is necessary to use the unit correctly, so please read this Instruction Manual carefully before using it. We hope you will enjoy using it for a long time.
It is also necessary to keep this Instruction Manual taking care not to lose it.

SPECIFICATIONS

	MS-1260	MS-1261M	MS-1261
Application	For medium-weight ~ heavy-weight materials		For heavy-weight ~ extra heavy-weight materials
Number of needles	2	3	
Sewing speed	Max. 3,600 s.p.m. (normal 3,000 s.p.m.)		
Needle	ORGAN UY x 128GAS-NY #16~#22 (standard #19)		← (standard #21)
	SCHMETZ UY128GAS Nm.100~Nm.140 (standard Nm.120)		← (standard Nm.130)
Height of presser foot	10 mm		
Stitch length	1.4 ~ 4.2 mm		
Needle gauge	3/16"	7/32", 1/4", 9/32", 5/16", 3/8"	
Circumference of cylinder	194 mm		
Lubricating oil	JUKI lubricating oil for industrial sewing machines (New Defrix Oil No. 1)		

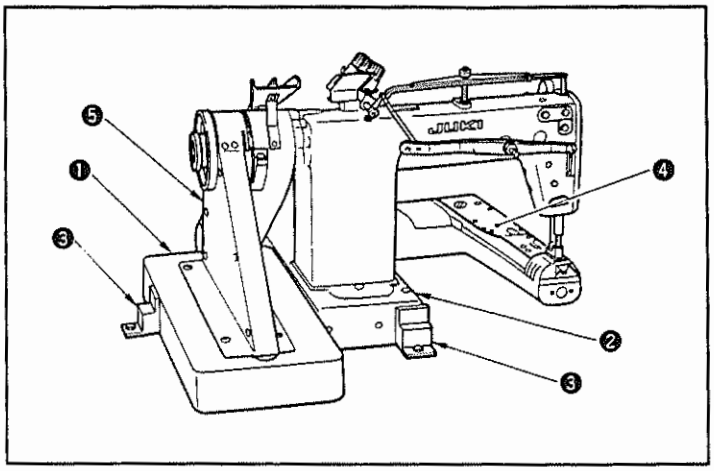
IMPORTANT SAFETY INSTRUCTIONS

1. Never operate your machine unless it has been properly lubricated.
2. The machine normally rotates toward you. Take care not to allow your machine to rotate in the reverse direction. (The machine rotates counterclockwise as observed from the handwheel side.)
3. For the first month after the installation of your machine, run it at a lower speed (approx. 2,800 s.p.m.)

FOR SAFE OPERATION

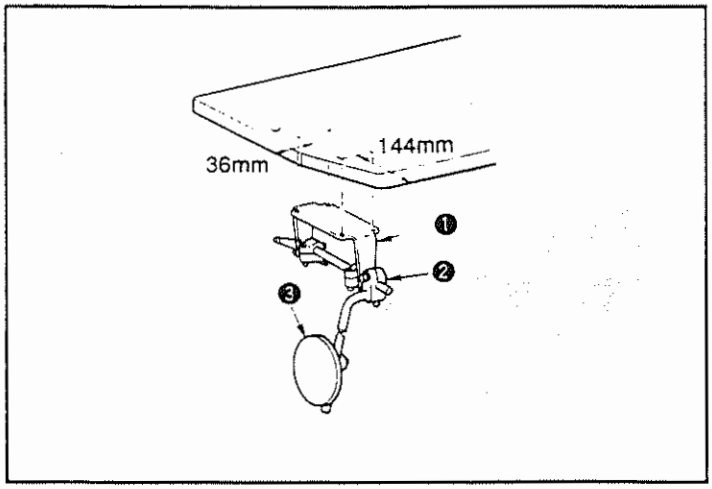
1. **Do not put your hands under the needle while the sewing machine is in operation.**
2. **Keep your hands away from the thread take-up lever while the sewing machine is in operation.**
3. **Operate the handwheel after the sewing machine has completely stopped.**

1. SETTING UP THE SEWING MACHINE



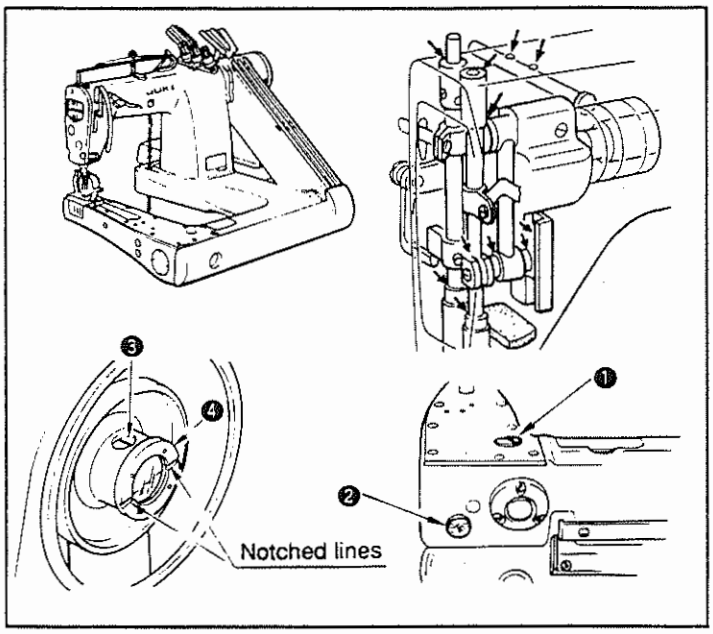
1) Attach belt protector mounting base ❶ to the sewing machine.
2) Put the sewing machine on the table, and determine the position of the sewing machine (belt groove and lifting chain passing hole ❷).
3) Attach two rubber cushions ❸ to the sewing machine and fix them with bolts and nuts.
4) Place a level on side plate ❹ of the bed in the latera direction then in the longitudinal direction to confirm that the sewing machine is horizontally placed on the table.
5) Attach belt protector ❺ to the belt protector mountin base ❶.

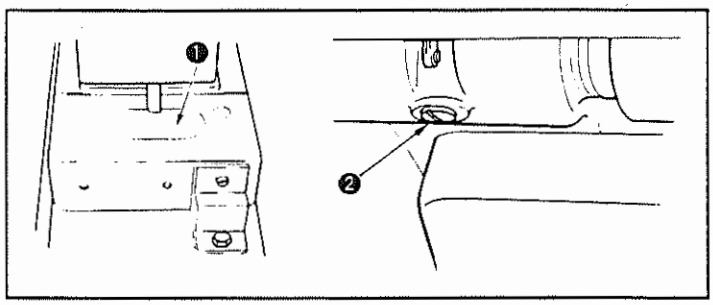
2. INSTALLING THE KNEE LIFTER



1) Fix knee-lifter mounting base (asm.) ❶ on the underside of the table using wooden screws.
2) Assemble knee pad vertical shaft (asm.) ❸ to knee pad vertical shaft mounting arm ❷. Then fix them in the position where you can operate the knee pad with ease.

3. LUBRICATION

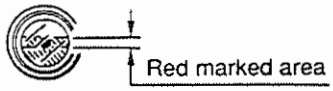




★Before operating the sewing machine

1) Remove screw ❶ from the lubrication hole. Pour New Defrix Oil No. 1 from the hole until the oil surface reaches the mark on oil sight window ❷.
2) Turn the handwheel until the notched lines on the oil cup ❹ are leveled. Now, remove screw ❸ from the lubrication hole, and pour the oil until the oil surface reaches the notched lines on the oil cup (approx. a half of the oil capacity of the cup.)
3) Run the sewing machine for a few minutes, then check the amount of oil again. If the amount of oil is insufficient, pour the oil further until the machine is filled with a proper amount of oil.
4) If the sewing machine has not been used for a long time, lubricate the section marked with an arrow (⬅) with a few drops of oil.

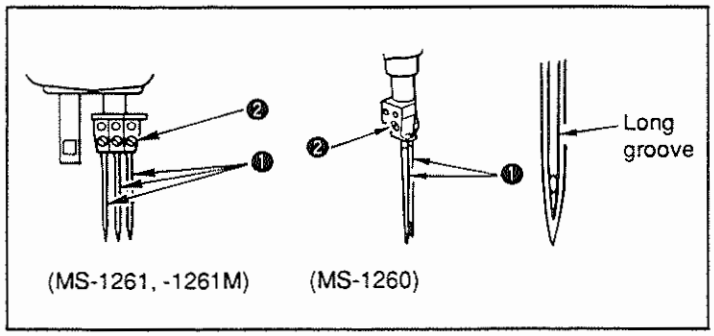
(Caution) To operate the sewing machine for the first time after the set-up of the machine or after it has not been used for a long time, fill the oil cup fully with the oil. Check that the oil level is always held within the red marked area on the oil sight window.



★Draining oil

1) If the oil has gathered in groove ❶ of the oil reservoir, wipe it off with rags.
2) Extract the oil which has gathered in the bed, from time to time, by removing cover ❷ from the draining hole in the hook driving shaft.

4. ATTACHING A NEEDLE



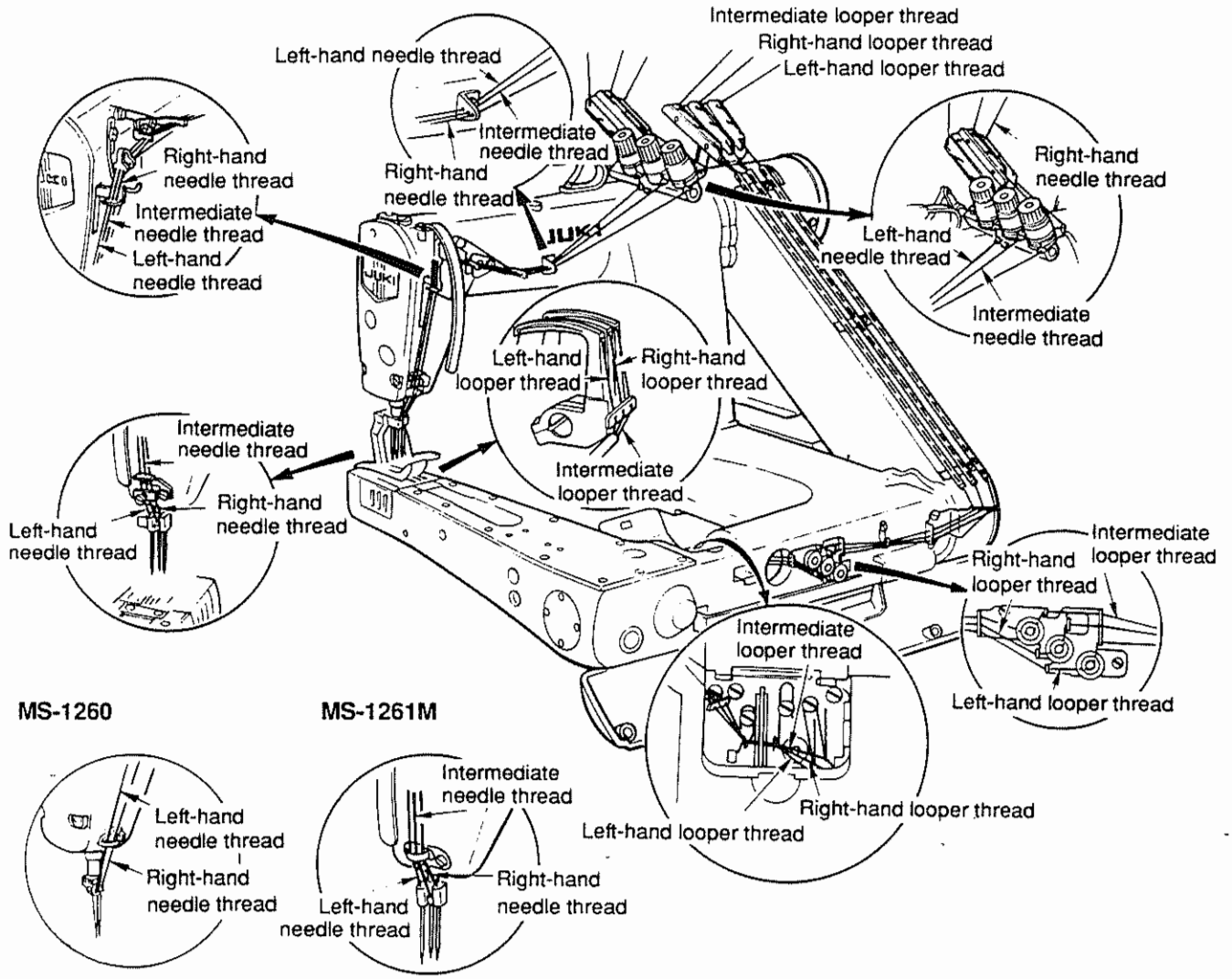
★Turn OFF the power to the motor.

Make a choice of the needle count in accordance with thickness of the thread and type of the material to be used.

1) Turn the handwheel until the needle bar reaches to the highest position of its stroke.
2) Loosen screw ❷ in the needle clamp, and turn needles ❶ so that the long groove on the respective needles is brought in front of you.
3) Insert the needles into the needle clamp hole until they will go no further.
4) Securely tighten needle clamp screw ❷.

5. THREADING THE MACHINE HEAD

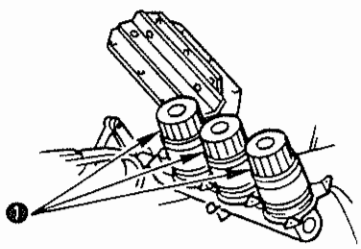
MS-1261

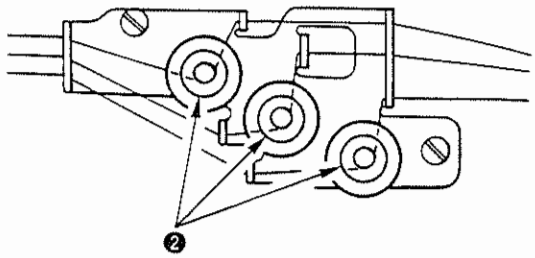


Thread the machine head in the order shown in the figure.

For the MS-1260, thread the machine head only with the right- and left-hand threads.

6. THREAD TENSION





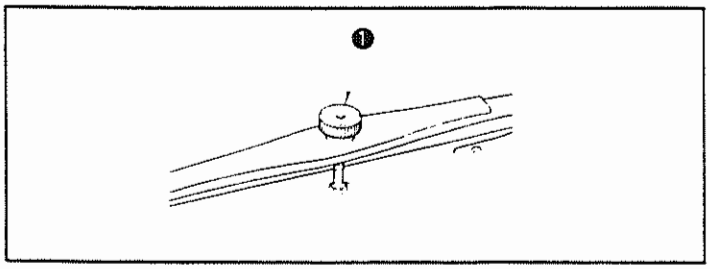
(1) Adjusting the needle thread tension

Turning tension nuts ❶ clockwise increases the needle thread tension. Turning it counterclockwise decreases the needle thread tension.

(2) Adjusting the looper thread tension

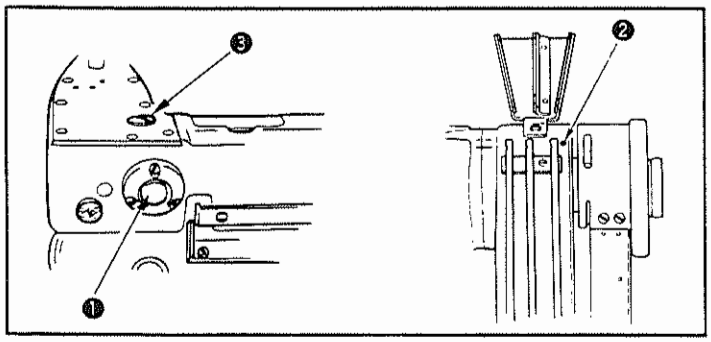
Turning looper thread tension adjusting knobs ❷ clockwise increases the looper thread tension. Turning it counterclockwise decreases the looper thread tension.

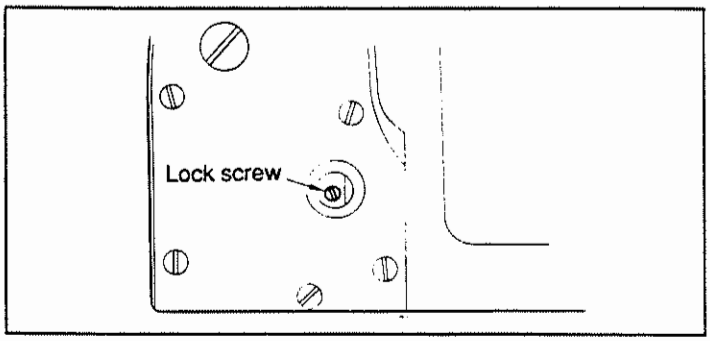
7. ADJUSTING THE PRESSURE OF THE PRESSER FOOT



Turning presser spring regulator ❶ clockwise increases the pressure of the presser foot. Turning it counterclockwise decreases the pressure.

8. ADJUSTING THE STITCH LENGTH

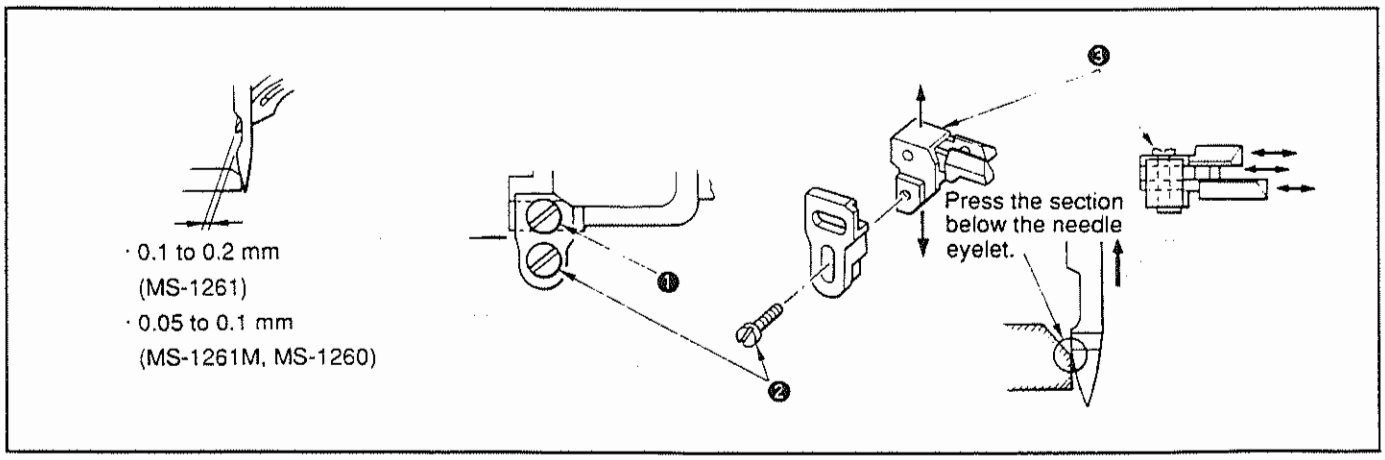




1) Remove screw ❸, and loosen the lock screw in the feed rock cam.
2) Lightly pressing push-button ❶, turn the handwheel by hand.
3) When push-button ❶ bites, the sewing machine will stop running.
4) In the aforementioned state, further pressing the push-button ❶, turn the handwheel by hand.
5) Align the division (indicating the desired value) with marker dot ❷ engraved on the sprocket gear cover. Then, release the push-button ❶.
6) Tighten the lock screw in the feed rock cam.
7) Attach screw ❸ in place.

(Caution) 1. Never press the push-button ❶ while the sewing machine is in operation.
2. Be sure to operate the sewing machine after tightening the lock screw.
3. Never operate the machine with screw ❸ removed.

9. ADJUSTING THE NEEDLE GUARD



The needle guard has been mounted on the feed dog. It therefore necessary to adjust the needle guard whenever the feed amount is changed.

(Adjusting the clearance provided between the needle and the looper)

1) Turn the handwheel to make the top end of the looper align with the center of the needle.
2) Loosen screw ❶, move the entire unit of the needle guard to the right or left to make the needle guard press the needle so that the clearance of 0.1 to 0.2 mm is provided between the looper and the needle. (0.05 to 0.1 mm for MS-1261M, -1260)

(Adjusting the vertical position of the needle guard)

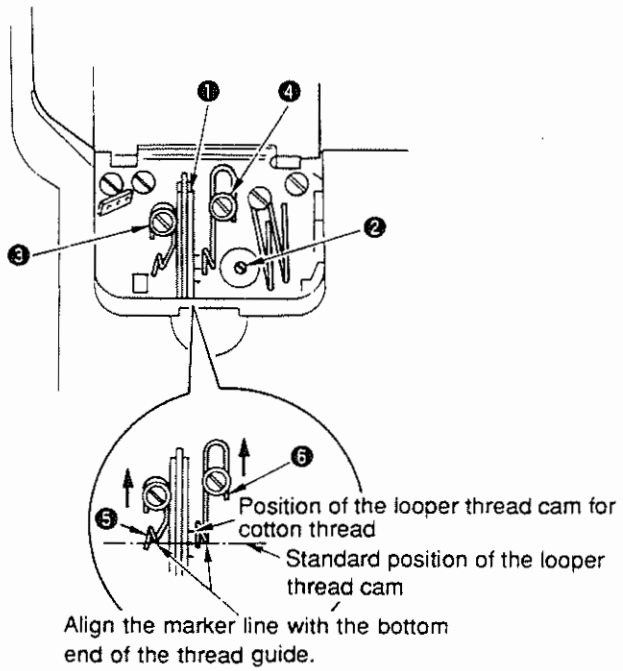
1) Turn the handwheel to bring the needle guard at a position where the needle guard starts pressing the needle.
2) Loosen screw ❷, and move the entire unit of the needle guard up or down so that the needle guard is located at a position where it does not press and deform needle thread loops (just below the needle eyelet).

(Adjusting the clearances between the respective needles and loopers)

If the clearances between the respective loopers and needles are not equal after the clearance between each needle and looper has been adjusted by moving the entire unit of the needle guard, adjust so that the equal clearance is provided between the respective loopers and needles following the steps described below.

1) Turn the handwheel to make the top end of the looper align with the center of the needle.
2) Loosen screw ❸, move the respective needle guards to adjust so that the equal clearance is provided between the respective needles and loopers.

10. ADJUSTING THE LOOPER THREAD CAM

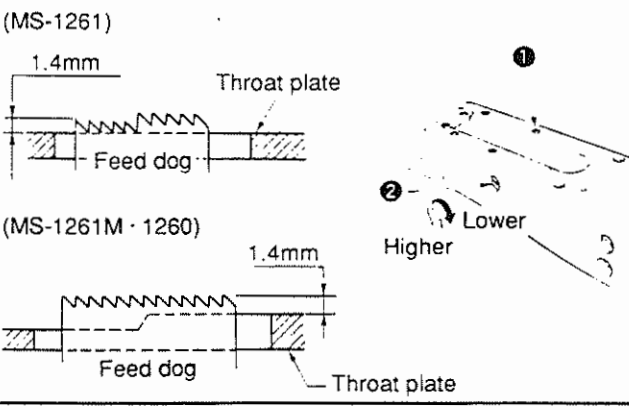


Loosen screw ❷, and adjust looper thread cam ❶ so that the looper starts drawing the thread when it starts returning to its home position after it has projected the most.

(1) Adjusting the looper thread cam thread guide

1) Align the end face of thread guide ❻ to the marker line on thread guide ❻. Then adjust thread guide ❺ so that its end face is flush with the end face of thread guide ❻.
2) The standard position of the thread guide is obtained when the end face of the thread guide is aligned with the center marker line.
3) When using a cotton thread, loosen screws ❸ and ❹, and align the end faces of thread guides ❺ and ❻ to the marker line located far side. At this time, it is not necessary to readjust the looper thread cam timing.

11. HEIGHT OF THE FEED DOG



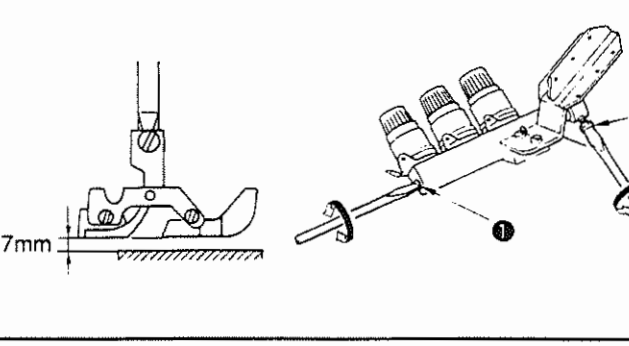
The top end of the feed dog should rise 1.4 mm above the surface of the throat plate when the feed dog is in the highest position of its stroke.

(1) Adjusting the feed dog height

1) Loosen screw ❶ in the side plate of the bed and remove it.
2) Remove the screw ❶, and loosen a hexagon socket head screw under the screw ❶ with an L-shaped hexagon wrench key.
3) Adjust the feed dog height by turning feed driving amount adjusting shaft ❷.
4) Fix the shaft with the hexagon socket head screw and tighten screw ❶.

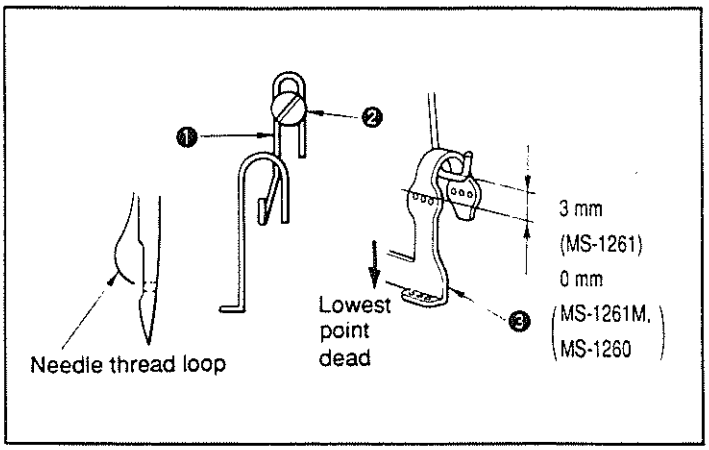
(Caution) It is not necessary to firmly fix the feed driving amount adjusting shaft ❷.

12. TIMING TO RELEASE THE NEEDLE THREAD TENSION



Adjust so that the needle thread tension is released when the presser foot is lifted by 7 mm above the surface of the throat plate. Loosen screw ❷ in thread tension releasing shaft ❶, and adjust the timing to release the needle thread tension by turning the shaft clockwise or counterclockwise.

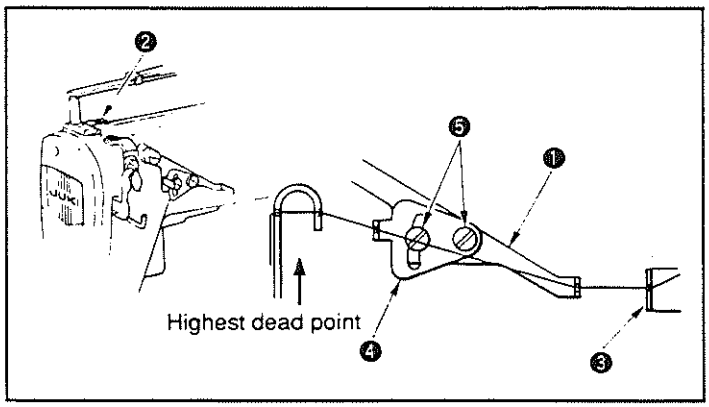
13. ADJUSTING THE TAKE UP THREAD TENSION CONTROL LEVER



Needle thread loop size is determined by adjusting the position of take-up thread tension control lever ❶.
The needle thread loop size changes in accordance with the thread and material used. So, adjust the thread loop size upon occasion.

1) Loosen two screws ❷, and adjust the position of the thread take-up lever guide by moving it up or down.
2) Adjust so that, when the needle bar is in the lowest dead point, the top end of the thread tension control lever is positioned 3 mm above the top end of thread hole in needle bar thread take-up lever ❸. (0 mm for MS-1261M, -1260)
3) Lowering thread tension control lever ❶ decrease the loop size. Lifting the lever increases it.

14. POSITION OF THE INTERMEDIATE THREAD TENSION RELEASING LEVER AND THREAD GUIDE OF THE NEEDLE THREAD TENSION CONTROLLER



Adjust the position of intermediate thread tension releasing lever ❶ and thread guide ❹ of the needle thread tension controller as described below.

1) Turn the handwheel to bring the needle bar to the highest dead point.
2) Loosen screw ❷, and adjust the position of intermediate thread tension releasing lever ❶ so that the thread coming from intermediate needle thread guide ❸ is in parallel to the intermediate thread tension releasing lever.
3) Then, loosen two screws ❺, and adjust the position of thread guide ❹ of the needle thread tension controller so that the thread coming from intermediate thread tension releasing lever ❶ makes a beeline.

15. MOTOR PULLEY AND BELT

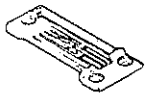
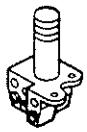
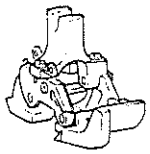
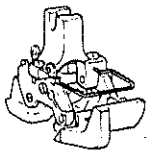
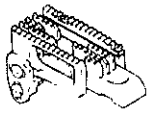
1) Use a clutch motor of 3-phase and 400 W (1/2 HP).
   For a servo-motor, a synchronizer mounting base is optionally available.
2) Use an M type V-belt.
3) The table below shows the relation of the motor pulley, belt length and the sewing speed.

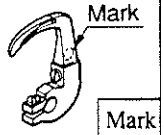
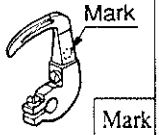
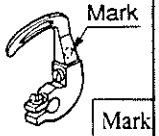
Frequency	Sewing speed	Outside diameter of motor pulley	Part No. of motor pulley	Belt length	Part No. of belt
50Hz	3,607 s.p.m.	90mm	MTK-P0085000	43"	MTJVM004300
	2,970 s.p.m.	75mm	MTK-P0070000	42"	MTJVM004200
60Hz	3,562 s.p.m.	75mm	MTK-P0070000		
	3,053 s.p.m.	65mm	MTK-P0060000	41"	MTJVM004100

★ The effective diameter of motor pulley is obtained by subtracting 5 mm from its outside diameter.
★ The motor should rotate counterclockwise as observed from the handwheel. Take care not to allow the motor to rotate in the reverse direction.

16. TABLE OF REPLACEABLE GAUGES FOR MS-1261, MS-1261M AND MS-1260

(1) MS-1261 (for extra heavy-weight materials)

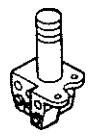
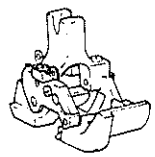
Part name			1 Gauge set	2 Gauge set (with finger guard)	3 Throat plate	4 Needle clamp (asm.)	5 Presser foot (asm.)	6 Presser foot (asm.) (with finger guard)	7 Feed dog (asm.)
Needle gauge									
Code	Inch	mm							
E	7/32	5.6	12954053	12954061	12954004	12956355	12957155	12957163	12965158
F	1/4	6.4	12953956	12953964	12953907	12956256	12957056	12957064	12965059
G	9/32	7.2	12954152	12954160	12954103	12956454	12957254	12957262	12965257
H	5/16	8.0	12954251	12954269	12954202	12956553	12957353	12957361	12965356
K	3/8	9.5	12954350	12954368	12954301	12956652	12957452	12957460	12965455

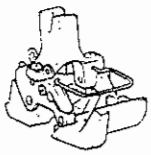
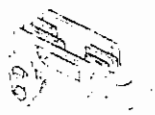
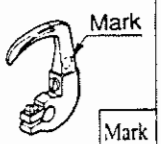
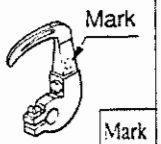
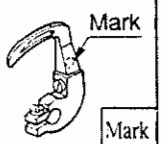
Part name			8 Looper (L) (asm.)		9 Looper (R) (asm.)		10 Looper (C) (asm.)	
Needle gauge								
Code	Inch	mm		Mark No.		Mark No.		Mark No.
E	7/32	5.6	12968558	1	12968855	1	12969150	1
F	1/4	6.4	↑	1	↑	1	↑	1
G	9/32	7.2	↑	1	↑	1	↑	1
H	5/16	8.0	12968657	2	12968954	2	↑	1
K	3/8	9.5	↑	2	↑	2	↑	1

11. Spacer for feed dog (for MS-1261)			
No.	Plate thickness (mm)	Part No.	Part name
(1)	0.3	12976601	Feed dog adjusting plate B
(2)	0.8	12976700	Feed dog adjusting plate C
(3)	1.0	12976809	Feed dog adjusting plate D

A spacer is not included in the gauge set.

(2) MS-1260, -1261M (for medium-weight materials)

Model	Part name			1 Gauge set	2 Gauge set (with finger guard)	3 Throat plate	4 Needle clamp (asm.)	5 Needle clamp (asm.)	6 Presser foot (asm.)
	Needle gauge								
	Code	Inch	mm						
MS-1260	D	3/16	4.8	12977856	12977864	12977807	12925954	———	12977054
MS-1261M	E	7/32	5.6	12954657	12954665	12954608	———	12956355	12956157
	F	1/4	6.4	12954558	12954566	12954509	———	12956256	12956058
	G	9/32	7.2	12954756	12954764	12954707	———	12956454	12956751
	H	5/16	8.0	12954855	12954863	12954806	———	12956553	12956850
	K	3/8	9.5	12954954	12954962	12954905	———	12956652	12956959

Model	Part name			7 Presser foot (asm.) (with finger guard)	8 Feed dog (asm)	9 Looper (L) (asm.)		10 Looper (R) (asm.)		11 Looper (C) (asm.)	
	Needle gauge										
	Code	Inch	mm				Mark No.		Mark No.		Mark No.
MS-1260	D	3/16	4.8	12977062	12978656	12979258	3	12979357	2	———	—
MS-1261M	E	7/32	5.6	12956165	12970059	12968558	1	12968855	1	12969150	1
	F	1/4	6.4	12956066	12969952	〃	1	〃	1	〃	1
	G	9/32	7.2	12956769	12970158	〃	1	〃	1	〃	1
	H	5/16	8.0	12956868	12970257	12968657	2	12968954	2	〃	1
	K	3/8	9.5	12956967	12970356	〃	2	〃	2	〃	1

Part name		12	13	14
		Folder (asm.)		
	Mark	M297	M298	M299
		MH	H	XH
Needle gauge				
Code	Inch / mm			
D	3/16 4.8	MAM2970CCBA	———	———
E	7/32 5.6	MAM2970DDBA	MAM2980AABA	MAM2990AABA
F	1/4 6.4	MAM2970EEBA	MAM2980BBBA	MAM2990BBBA
G	9/32 7.2	MAM2970FFBA	MAM2980CCBA	MAM2990CCBA
H	5/16 8.0	MAM2970GGBA	MAM2980DDBA	MAM2990DDBA
K	3/8 9.5	MAM2970HHBA	MAM2980EEBA	MAM2990EEBA

A folder is not included in the gauge set.

Code of folder

M297 — For medium-weight materials (equipped on MS-1261M, MS-1260 as standard)
— MS-1261M, MS-1260)
M298 — For heavy-weight materials
M299 For extra heavy-weight materials (equipped on MS-1261 as standard)

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To order or for further information, please contact:

Please do not hesitate to contact our distributors or agents in your area for further information when necessary.

※**The description covered in this instruction manual is subject to change for improvement of the commodity without notice.**

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