

8420/8450 系列
SERIES

高速双针机系列

**HIGH-SPEED TWIN-NEEDLE LOCKSTITCH
SEWING MACHINE SERIES**

使用说明/零件手册
OPERATION MANUAL/PARTS BOOK

开头语

衷心感谢您购买本公司产品！使用缝纫机之前，请认真阅读此说明书。本说明书介绍了缝纫机日常使用、维护与安全的有关注意事项。请您仔细加以保管，以便日后查阅。如产品规格或外观经过改良可能会与说明书略有不同，恕不另行通知。

PROLOGUE

Thanking you for your purchase our products sincerely, please reading the manual book before operation, the book introduce some points how to operate, maintenance, and safe. Please keep it carefully for reading in the further; you will be not informed if the file has been revised. Please set sample as standard.

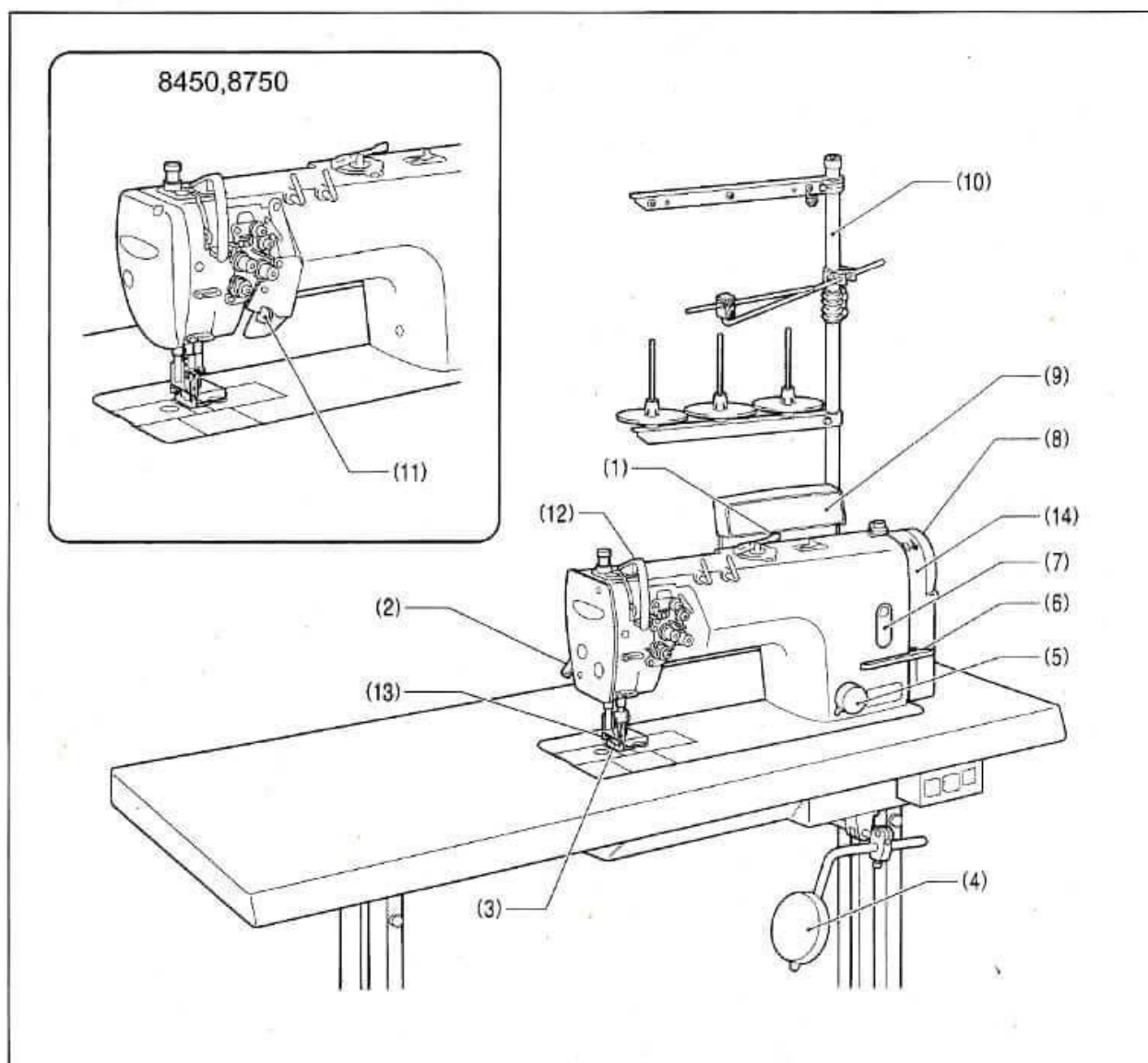
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1. 各部件名称



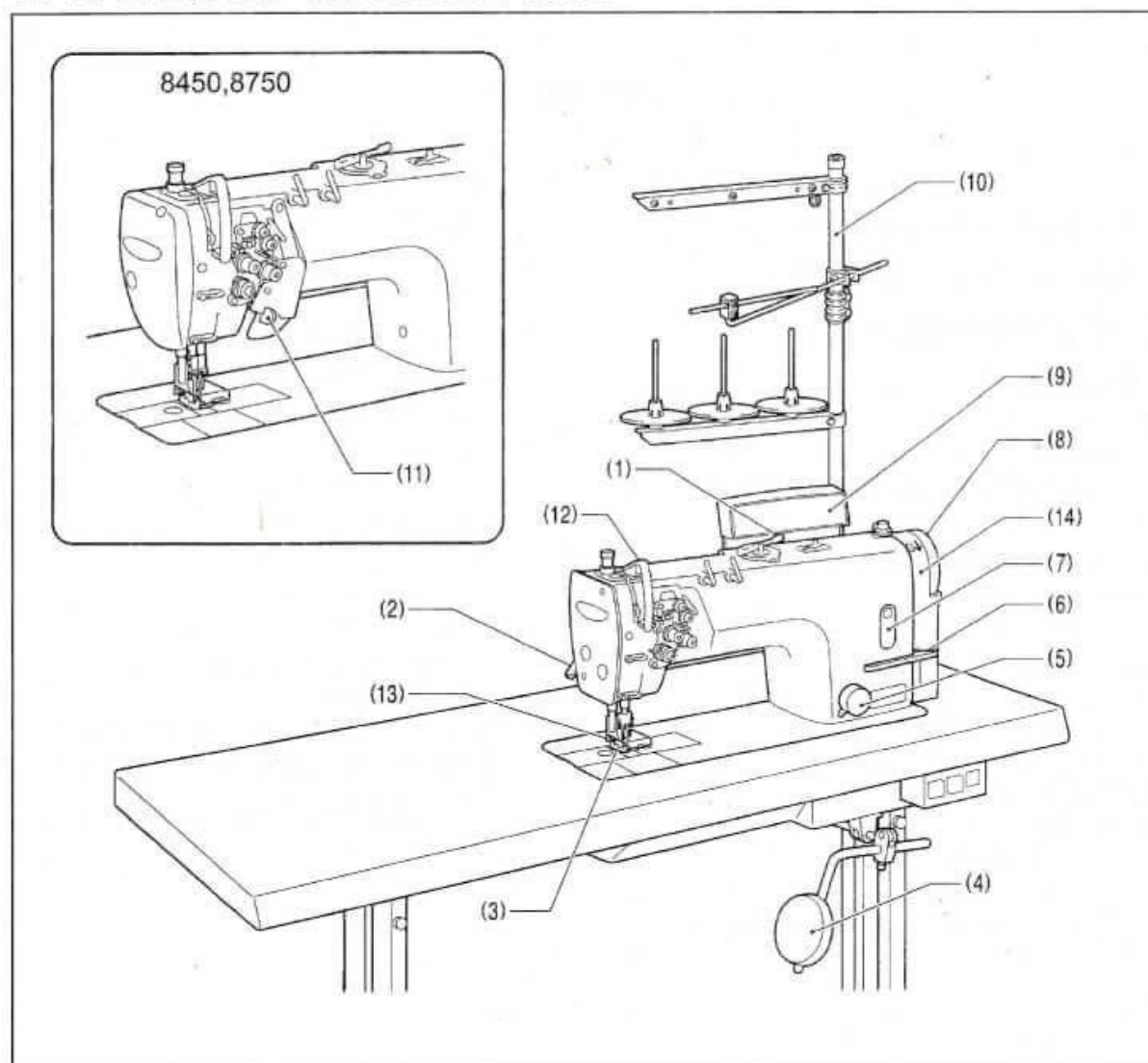
- | | |
|----------------------|-----------|
| (1) 梭芯绕线装置 | (2) 压脚扳手 |
| (3) 压脚 | (4) 膝控碰块 |
| (5) 针距旋扭 | (6) 倒缝扳手 |
| (7) 油量计视窗 | (8) 缝纫机手轮 |
| (9) 警报器 (针杆无型) | (10) 线架 |
| (11) 定位杆(8450, 8750) | |

安全保护装置

- | | |
|-------------|----------|
| (12) 挑线杆防护罩 | (13) 护指器 |
| (14) 皮带罩 | |

1. NAMES OF MAJOR PARTS

1. NAMES OF MAJOR PARTS



- (1) Bobbin winder
- (3) Presser foot
- (5) Stitch length dial
- (7) Oil gauge window
- (9) Alarm display (semi dry type)
- (11) Stop lever (8450, 8750)

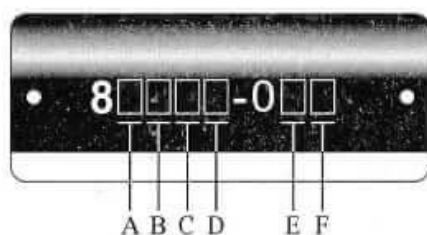
- (2) Lifting lever
- (4) Knee lifter assembly
- (6) Reverse lever
- (8) Machine pulley
- (10) Cotton stand

Safety devices

- (12) Thread take-up cover
- (14) Belt cover

- (13) Finger guard

2. 缝纫机规格

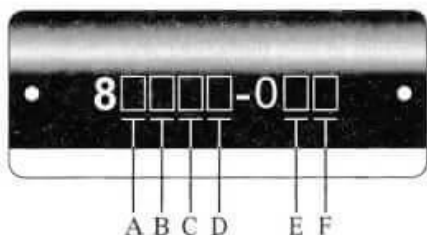


A		4	7	
	旋梭	标准旋梭	大旋梭	
B		2	5	
	缝制类型	标准	角缝	
C		—	D	
	驱动公式	—	直驱	
D		4	T	
	倒缝装置	○	○	
	扫线装置	○	—	
	切线装置	○	○	
E		0	3	
	注油类型	微油	针针无油	
F		F	3	5
	用途	女式内衣用	适用于较薄的和中厚的面料	适用于较厚的面料

机器规格

型号	最高转速(rpm)	最大针距	压脚高度		送布牙高度	机针 (DP x 5)
			扳手	膝控		
8420-003	4000	4	7	13	1	#11-#16
8420-005	3000	5	7	13	1	#14-22#
8450-003	3000	5	7	13	1	#11-#16
8450-005	3000	5	7	13	1	#14-22#
8720-003	3000	7	7	13	1	#11-#16
8720-005	3000	7	7	13	1	#14-22#
8750-003	3000	7	7	13	1	#11-#16
8750-005	3000	7	7	13	1	#14-22#
8422-403	4000	4	7	13	1	#11-#16
8422-405	3000	5	7	13	1	#14-22#
8452-403	3000	5	7	13	1	#11-#16
8452-405	3000	5	7	13	1	#14-22#
8722-403	3000	7	7	13	1	#11-#16
8722-405	3000	7	7	13	1	#14-22#
8752-403	3000	7	7	13	1	#11-#16
8752-405	3000	7	7	13	1	#14-22#

2. MACHINE SPECIFICATIONS



A		4	7	
	Rotary hook	Standard hook	Large hook	
B		2	5	
	Stitch function	Fixed needle bar	Split needle bar	
C		—	D	
	Drive fashion	—		
D		4	T	
	Quick reverse	○	○	
	Thread wiper	○	—	
	Thread trimmer	○	○	
E		0	3	
	Lubrication	Minimum Lubrication	Semi dry	
F		F	3	5
	USE	For foundation	For light-weight and medium-weight material	For heavy-weight materials

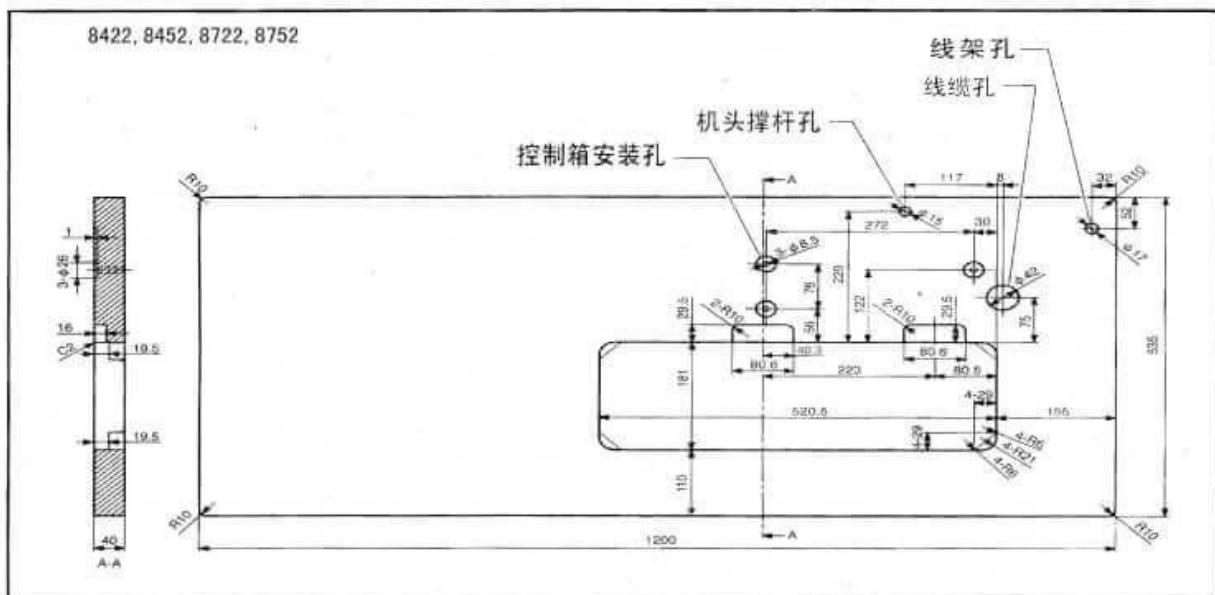
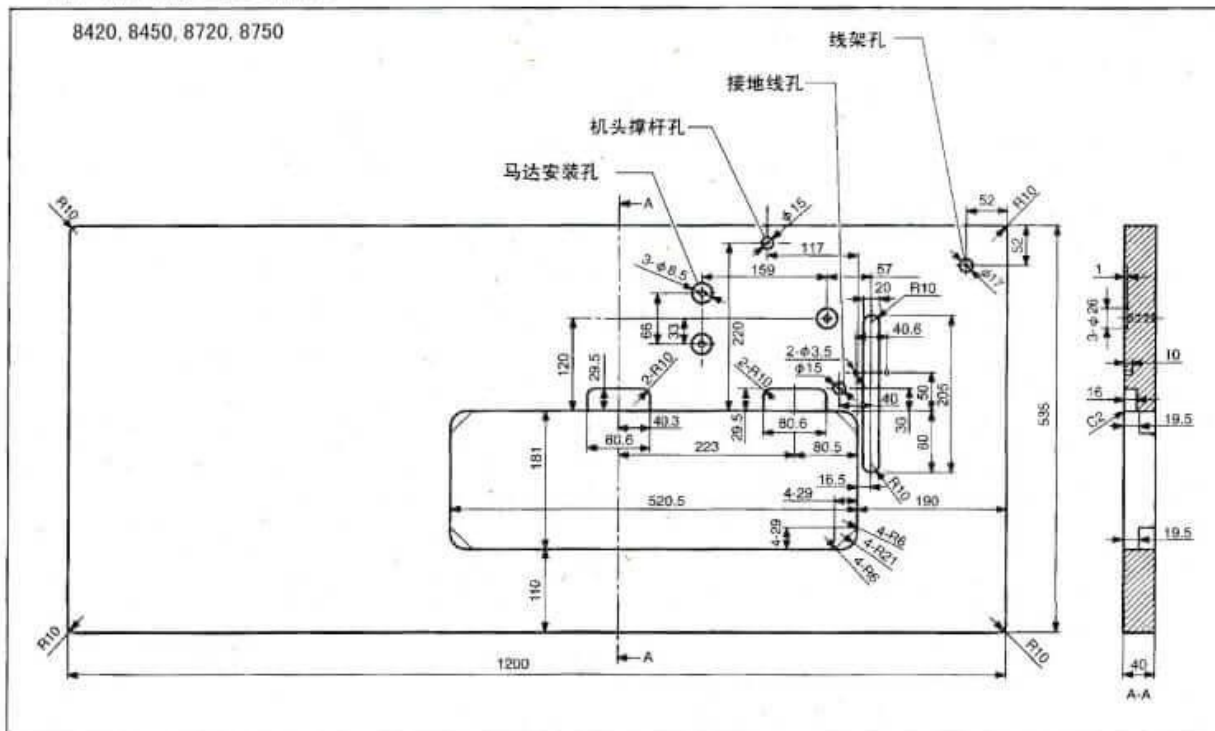
Machine specifications

Model	speed (rpm)	stitch length	Presser foot height		Feed dog height	Needle (DP x 5)
			Lifting lever	Knee lifter		
8420-003	4000	4	7	13	1	#11- #16
8420-005	3000	5	7	13	1	#14- 22#
8450-003	3000	5	7	13	1	#11- #16
8450-005	3000	5	7	13	1	#14- 22#
8720-003	3000	7	7	13	1	#11- #16
8720-005	3000	7	7	13	1	#14- 22#
8750-003	3000	7	7	13	1	#11- #16
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8422-403	4000	4	7	13	1	#11- #16
8422-405	3000	5	7	13	1	#14- 22#
8452-403	3000	5	7	13	1	#11- #16
8452-405	3000	5	7	13	1	#14- 22#
8722-403	3000	7	7	13	1	#11- #16
8722-405	3000	7	7	13	1	#14- 22#
8752-403	3000	7	7	13	1	#11- #16
8752-405	3000	7	7	13	1	#14- 22#

3. 关于台板和马达

A. 台板加工图

- 台板的厚度应达 40mm，能够承受缝纫机的重量，并经受缝纫机的震动。
- 请在如图所示位置上钻孔。



B. 马达

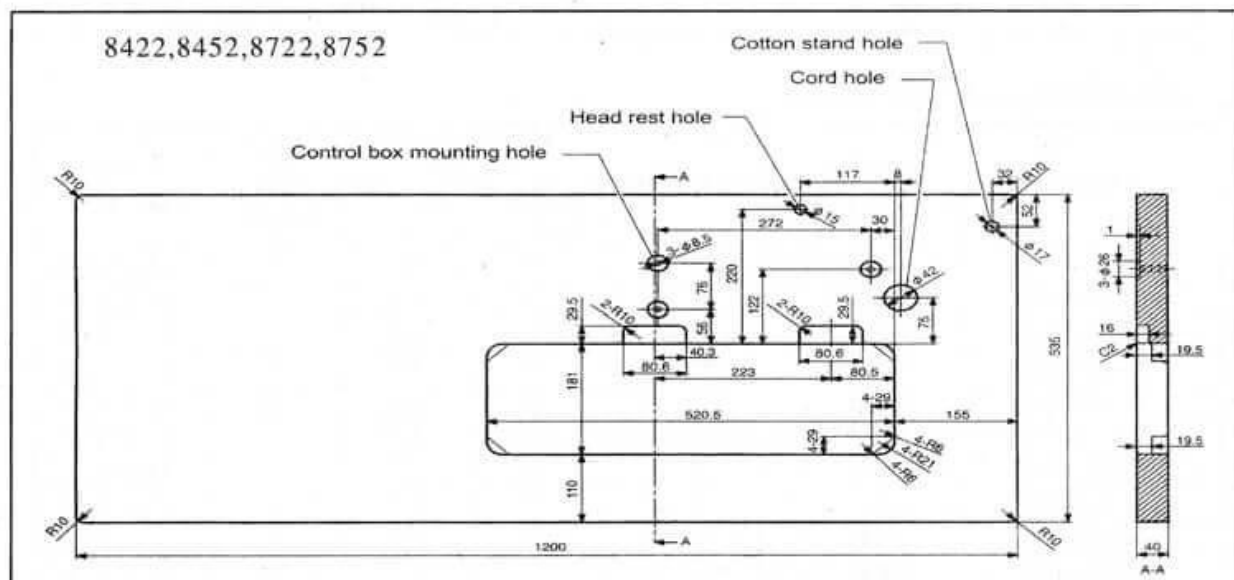
注意



所有电缆应固定在离活动部件至少 25mm 以外处。另外，不要过度弯曲电缆或用卡钉固定得过紧，会引起火灾或触电的危险。



- The top of the table should be 40 mm in thickness and should be strong enough to hold the weight and with-stand the vibration of the sewing machine.
- Drill holes as indicated in the illustration below.



CAUTION



All cords should be secured at least 25 mm away from any moving parts. Furthermore, do not excessively bend the cords or secure them too firmly with staples, otherwise there is the danger that fire or electric shocks could occur.



〈马达〉

- 马达请使用右表所示的离合器马达。
- 关于马达的安装方法和使用方法，请参照马达的使用说明书。

电源	名称
单相	2 极、400W 马达
三相	2 极、400W 马达

〈马达轮和 V 型皮带〉

由于 50Hz 地区和 60Hz 地区的马达轮，V 型皮带有所不同，所以请参考下表进行选择。

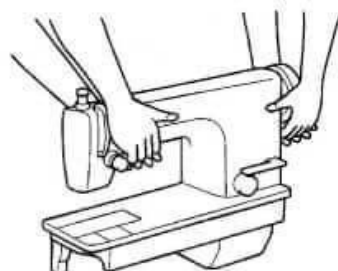
转速	频率	马达轮（外径）	V 型皮带
4,000rpm	50Hz	马达轮 100	46
	60Hz	马达轮 85	45
3,500rpm	50Hz	马达轮 90	45
	60Hz	马达轮 70	44
3,000rpm	50Hz	马达轮 75	44
	60Hz	马达轮 65	43

4. 安装方法

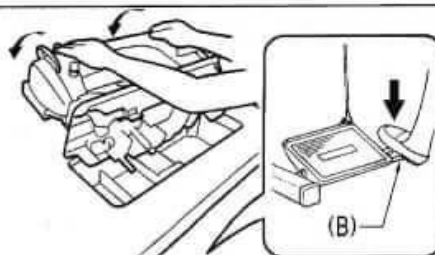
⚠ 注意

- ⊘ 请让受过培训的技术人员来安装缝纫机。
- ⚠ 请委托购买商店或电气专业人员进行电气配线。
- ⚠ 缝纫机重量约 43Kg，安装工作必须由两人以上来完成。
- ⊘ 在安装完成前，请不要连接电源，如果误按启动开关，缝纫机动作会导致受伤。
- ⚠ 缝纫机头倒下或竖起时，请用双手进行操作。单手操作时因缝纫机的重量万一滑落易导致受伤。
- ⚠ 必须接地。
接驳地线不牢固，是造成触电或误动作的原因。

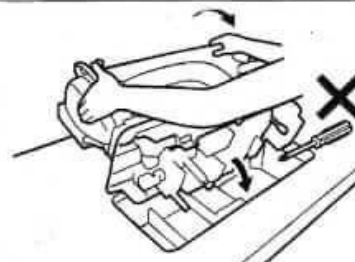
搬运缝纫机



向后倾斜缝纫机头部



将缝纫机头部返回至直立的位置



<Motor>

- Use one of the clutch motors given in the table at right as the motor.
- Refer to the instruction manual for the motor for details on installing and using the motor.

Power	Motor
Single-phase	2-pole, 400 W motor
Three-phase	2-pole, 400 W motor

<Motor pulley and V-belt>

Select the correct motor pulley and V-belt by referring to the table below to suit the power frequency of your area.

Sewing speed	Frequency	Motor pulley (Outer diameter)	V-belt
4,000 rpm	50 Hz	Motor pulley 100	46
	60 Hz	Motor pulley 85	45
3,500 rpm	50 Hz	Motor pulley 90	45
	60 Hz	Motor pulley 70	44
3,000 rpm	50 Hz	Motor pulley 75	44
	60 Hz	Motor pulley 65	43

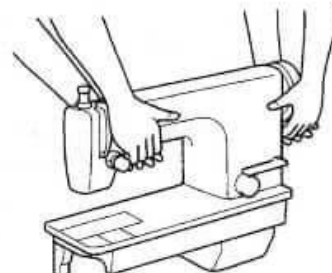
4. INSTALLATION

⚠ CAUTION

-  Machine installation should only be carried out by a qualified technician.
-  Contact your Brother dealer or a qualified electrician for any electrical work that may need to be done.
-  The sewing machine weighs approximately 43 kg. The installation should be carried out by two or more people.
-  Do not connect the power cord until installation is complete. The machine may operate if the treadle is depressed by mistake, which could result in injury.
-  Use both hands to hold the machine head when tilting it back or returning it to its original position. If only one hand is used, the weight of the machine head may cause your hand to slip, and your hand may get caught.
-  Be sure to connect the ground. If the ground connection is not secure, you run a high risk of receiving a serious electric shock, and problems with correct operation may also occur.

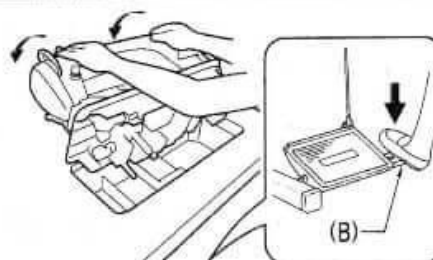
Carrying the machine

- The machine should be carried by the arm by two people as shown in the illustration.
- Make sure that the machine pulley does not turn.



Tilting back the machine head

- Hold section (B) with your foot so that the table does not move, and then push the arm with both hands to tilt back the machine head.

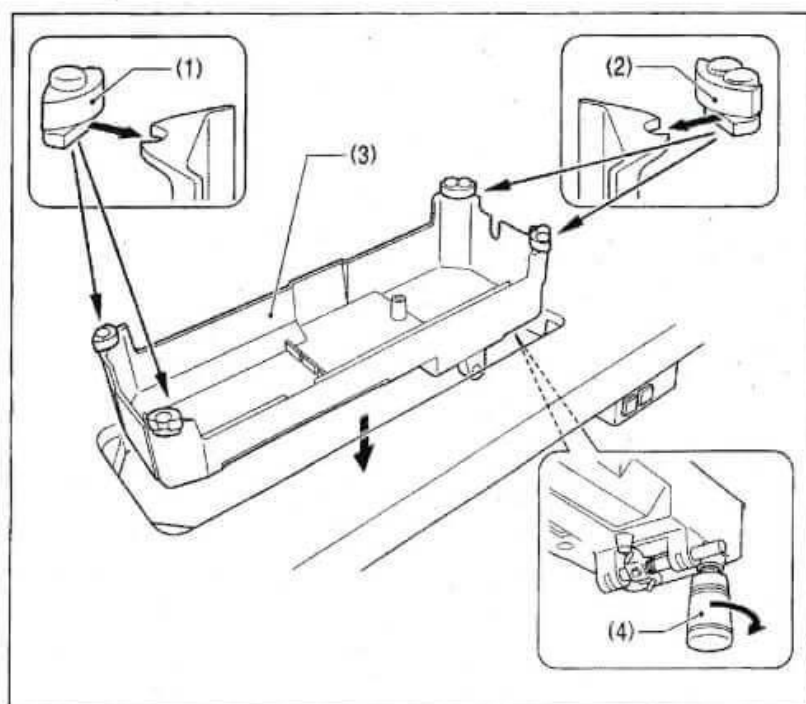


Returning the machine head to the upright position

1. Clear away any tools, etc. which may be near the table holes.
2. While holding the face plate with your left hand, gently return the machine head to the upright position with your right hand.

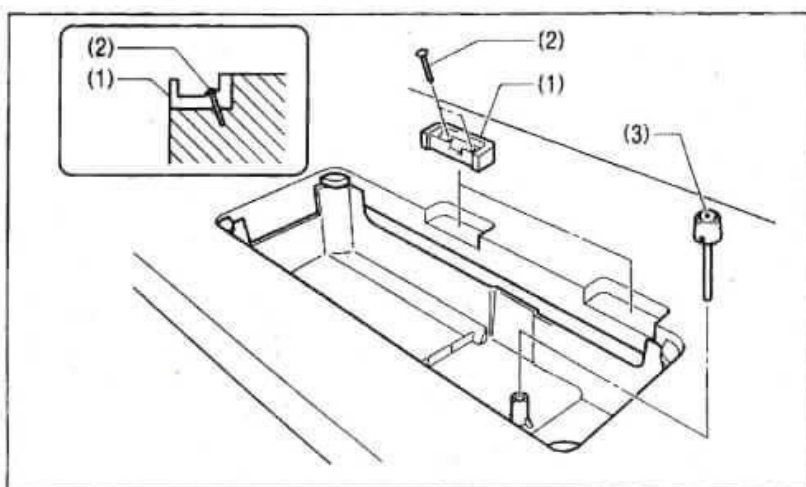


4-1. 安装方法



1. 油盘

- (1) 头部防震垫块·(左) (2 个)
- (2) 头部防震垫块·(右) (2 个)
- (3) 油盘
- (4) 注油器

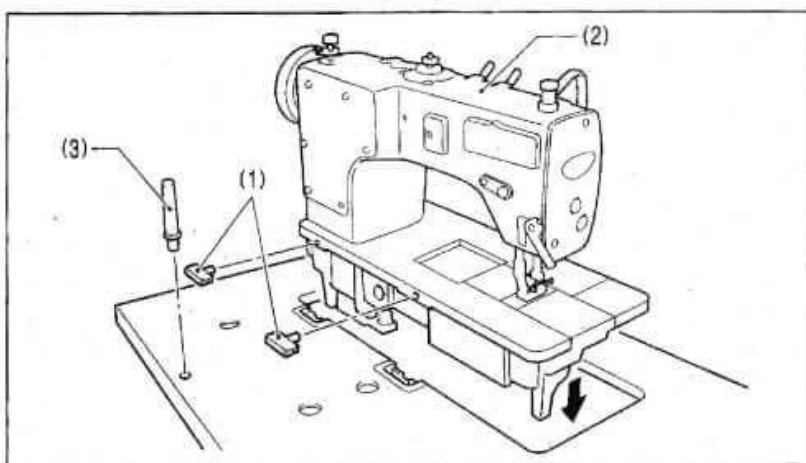


2. 机壳铰链

- (1) 机壳铰链套 (2 个)
- (2) 钉 (4 个)

3. 膝控提升顶杆

- (3) 膝控提升顶杆



4. 缝纫机头部

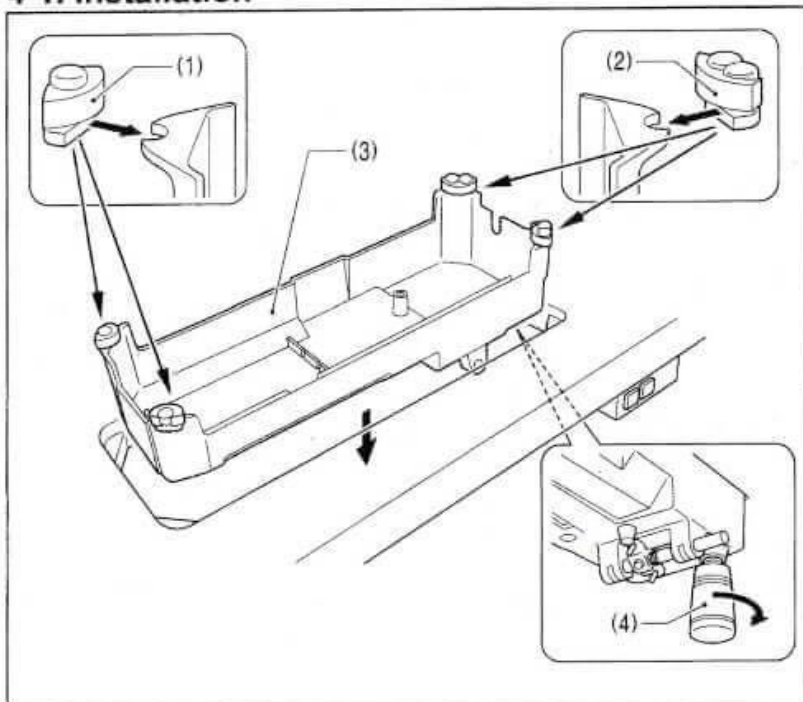
- (1) 机壳铰链 (2 个)
- (2) 缝纫机头部
- (3) 机头撑杆

注意

将机头撑杆 (3) 安全、稳定地插入台板开孔。如果机头撑杆 (3) 未被插入到位, 则缝纫机头部在向后倾斜时因不够稳定而发生危险。

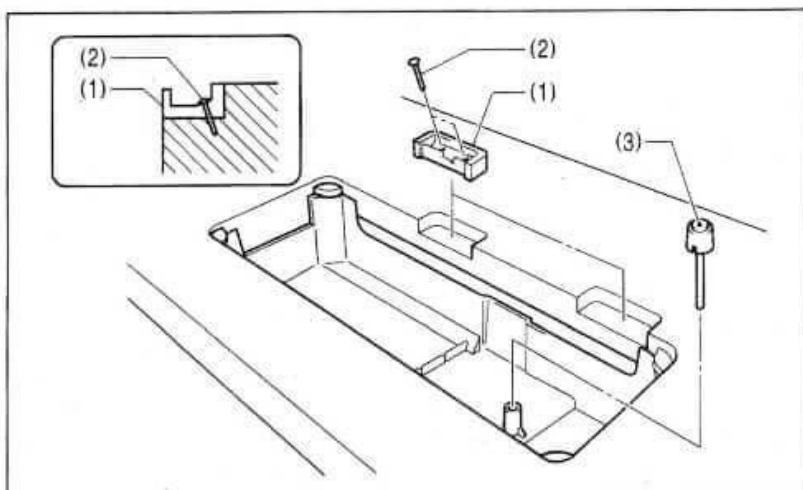
4. INSTALLATION

4-1. Installation



1. Oil pan

- (1) Head cushions (left) [2 pcs]
- (2) Head cushions (right) [2 pcs]
- (3) Oil pan
- (4) Oiler

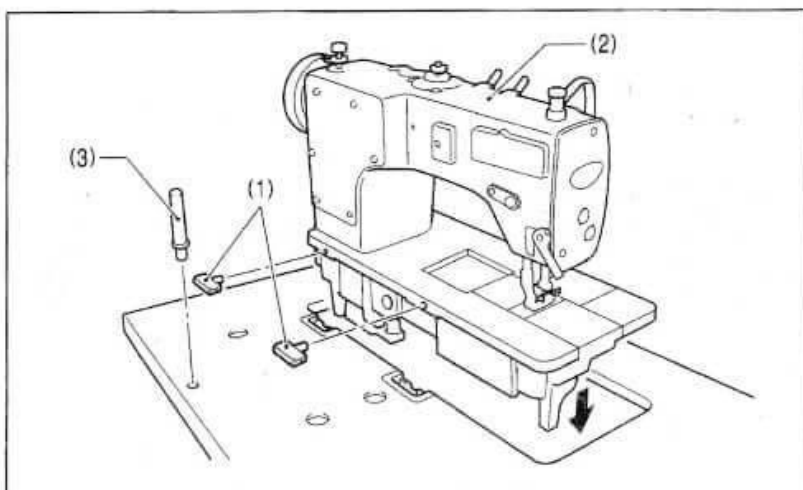


2. Rubber cushions

- (1) Rubber cushions [2 pcs]
- (2) Nails [4 pcs]

3. Knee lifter complying bar

- (3) Knee lifter complying bar



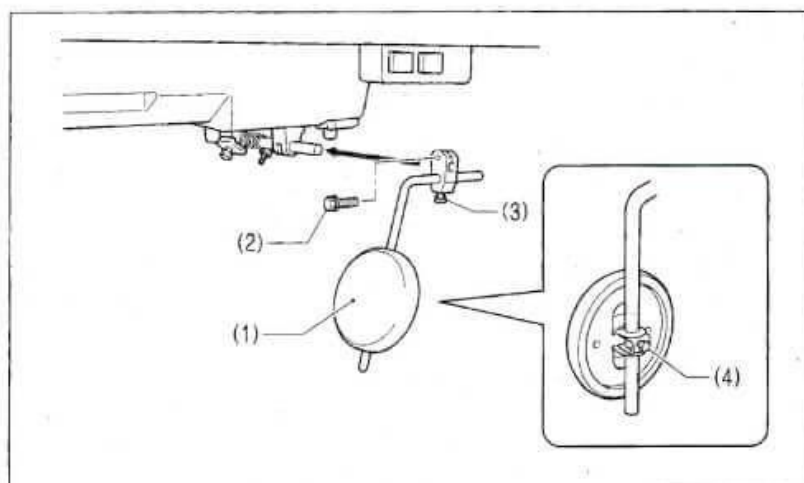
4. Machine head

- (1) Hinges [2 pcs]
- (2) Machine head
- (3) Head rest

NOTE:

Tap the head rest (3) securely into the table hole. If the head rest (3) is not pushed in as far as it will go, the machine head will not be sufficiently stable when it is tilted back.

5. 膝控碰块



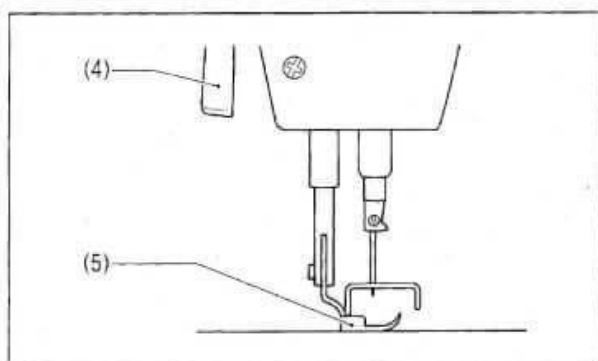
(1) 膝控碰块

(2) 螺栓

(1) 膝控碰块

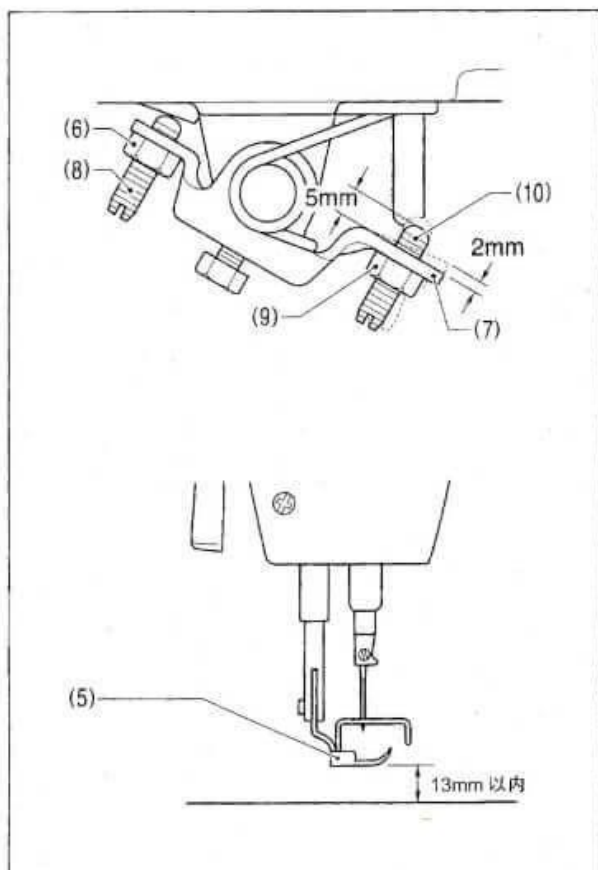
(2) 螺栓

* 松开螺栓 (3) 和螺栓 (4)，将膝控碰块 (1) 移至易于使用的位置。



<调整抬压杠杆>

1. 转动手轮以便送布牙处于针板的下方。
2. 用压脚扳手 (4) 放下压脚 (5)。

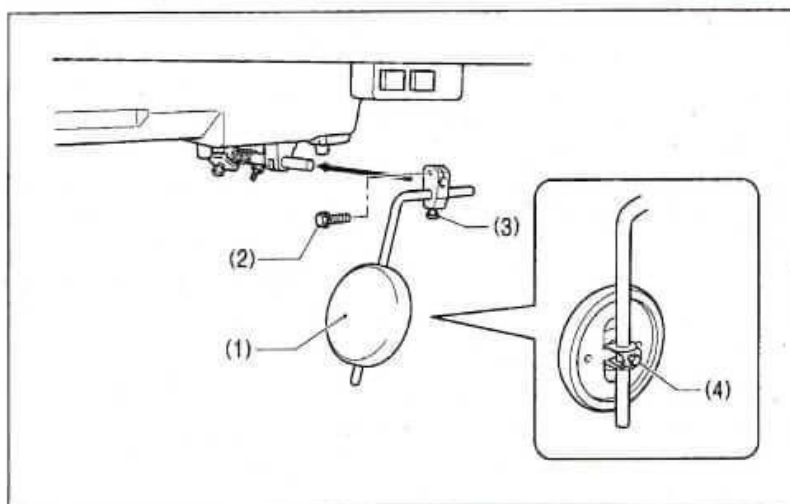


3. 松开螺母 (6)。
4. 转动螺钉 (8) 进行调节，以便用手在轻压膝控碰块 (1) 时抬压杠杆 (7) 游隙量约为 2mm。
5. 拧紧螺母 (6)。
6. 松开螺母 (9)。
7. 转动螺钉 (10) 直至螺钉头与抬压杠杆 (7) 的间距约为 5mm。
8. 转动调节螺钉 (10) 进行调节，以便在完全压下膝控碰块 (1) 时，压脚 (5) 处在针板上方 13mm 范围内的位置。
9. 完成调节后，将螺母 (9) 拧紧。

5. Knee lifter plate

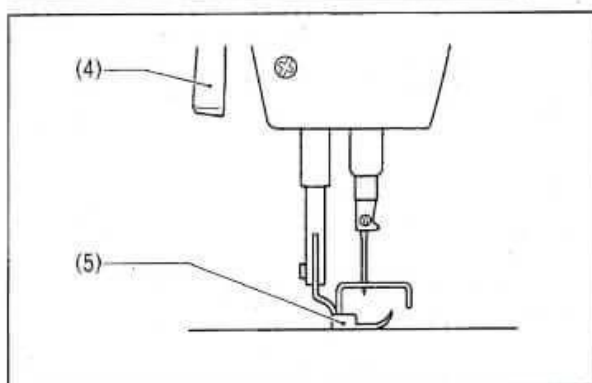
- (1) Knee lifter plate
(2) Bolt

* Loosen the bolt (3) and the bolt (4), and move the knee lifter plate (1) to a position where it is easy to use.

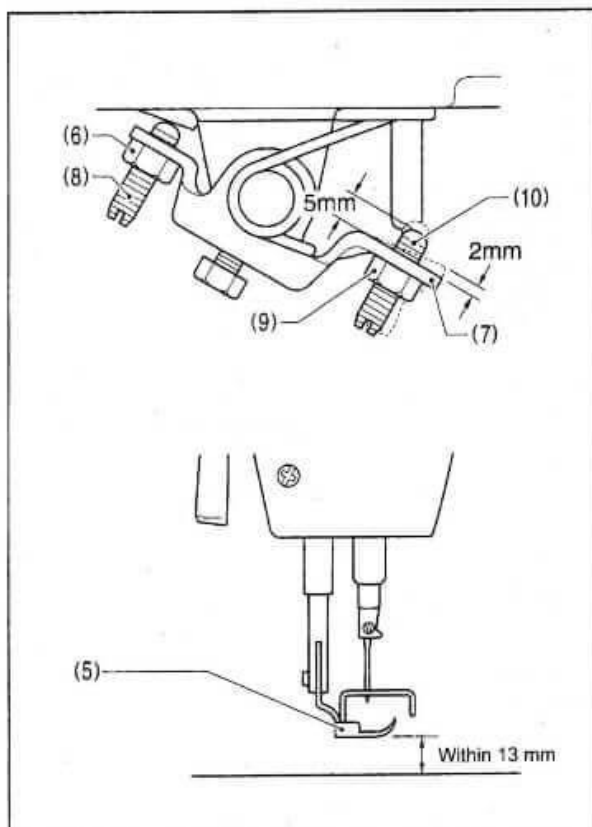


<Knee lifter adjustment>

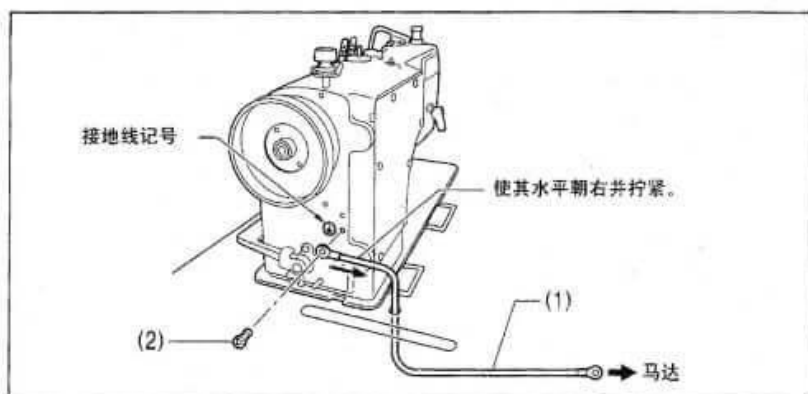
1. Turn the machine pulley so that the feed dog is below the top of the needle plate.
2. Lower the presser foot (5) by using the lifting lever (4).



3. Loosen the nut (6).
4. Turn the screw (8) to adjust so that the amount of play in the knee lifter (7) is approximately 2 mm when the knee lifter plate (1) is gently pressed.
5. Securely tighten the nut (6).
6. Loosen the nut (9).
7. Turn the screw (10) until the distance between the end of the screw (10) and the knee lifter (7) is approximately 5 mm.
8. Turn the adjusting screw (10) to adjust so that the presser foot (5) is at the desired position within a distance of 13 mm of the needle plate when the knee lifter plate (1) is fully pressed.
9. After adjustment is completed, securely tighten the nut (9).



4. 安装方法



6. 地线

(1) 地线

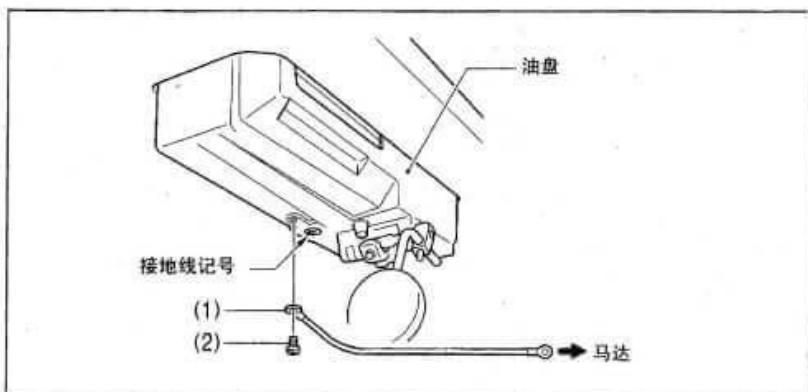
(2) 螺钉

<针杆无油型>

请务必使用随带的接地线 (1) 将其连接到马达上。

<微油型>

准备好合适的接地线。

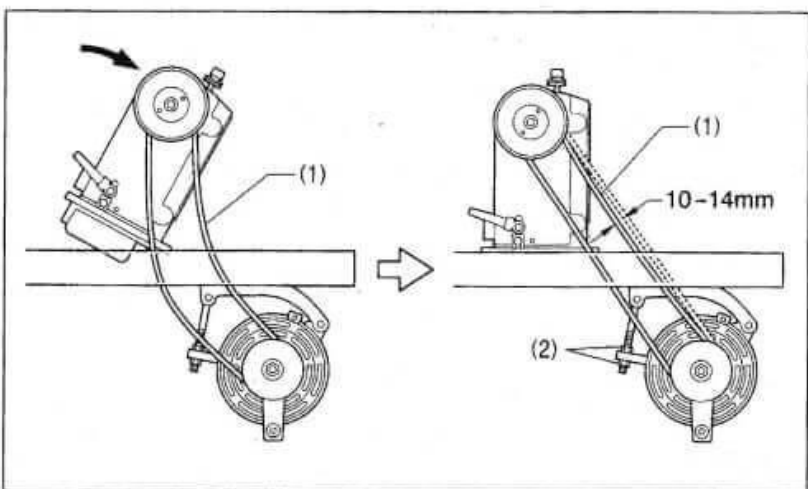


7. 地线

准备好合适的接地线。

(1) 地线

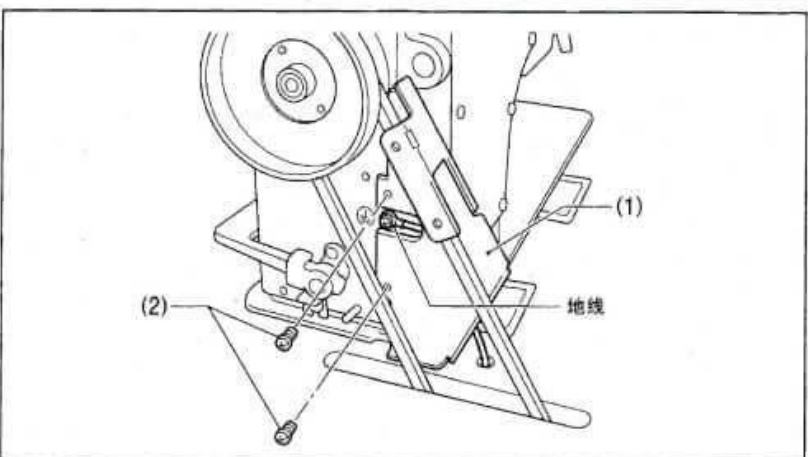
(2) 螺钉



8. V型皮带

(1) V型皮带

用5N的力按压V型皮带(1)的中央，转动螺母(2)〔2个〕进行调整，将挠度调整到10~14mm左右。

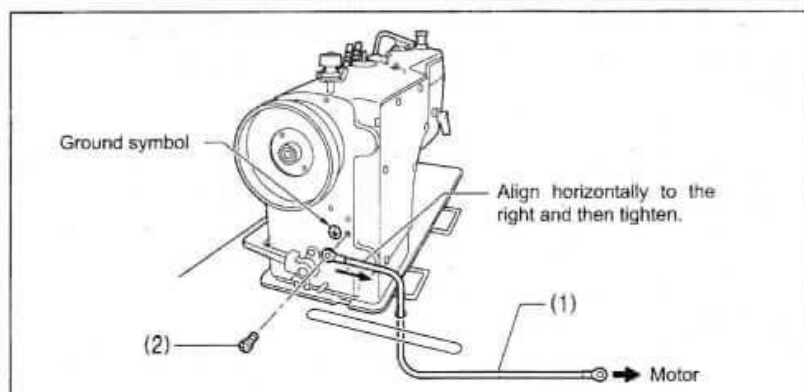


9. 皮带罩垫片

(1) 皮带罩垫片

(2) 螺钉(2个)

4. INSTALLATION



6. Ground wire

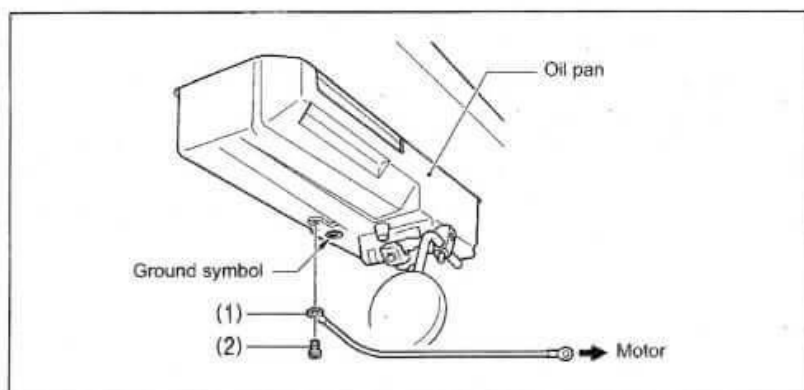
- (1) Ground wire
- (2) Screw

<Semi dry type>

Be sure to connect the accessory ground wire (1) to the motor.

< Minimum lubrication type>

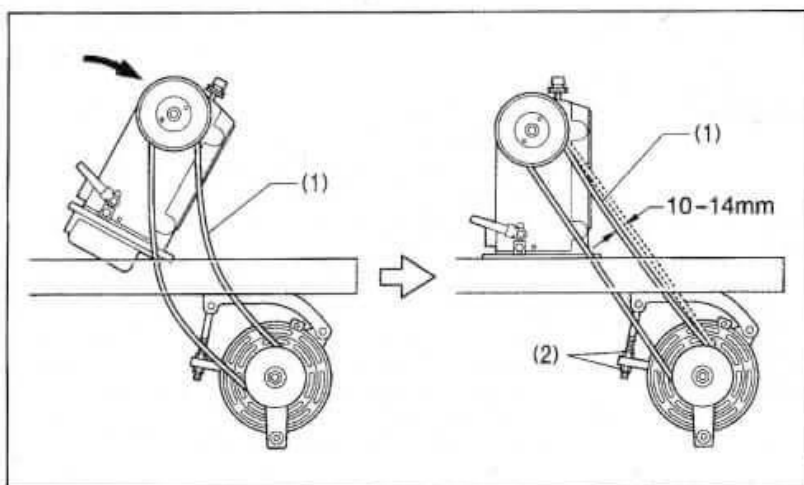
Use a suitable ground wire.



7. Ground wire

Use a suitable ground wire.

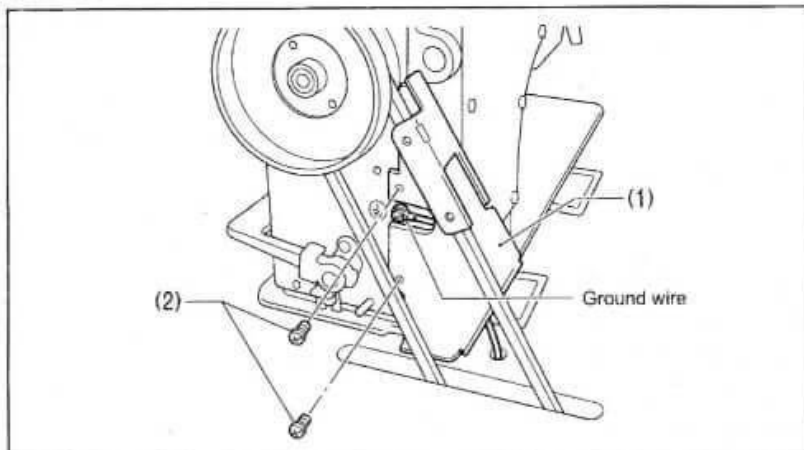
- (1) Ground wire
- (2) Screw



8. V-belt

- (1) V-belt

Turn the two nuts (2) to adjust so that there is 10-14 mm of deflection in the V-belt (1) when it is pressed at the midway point with a force of 5 N.

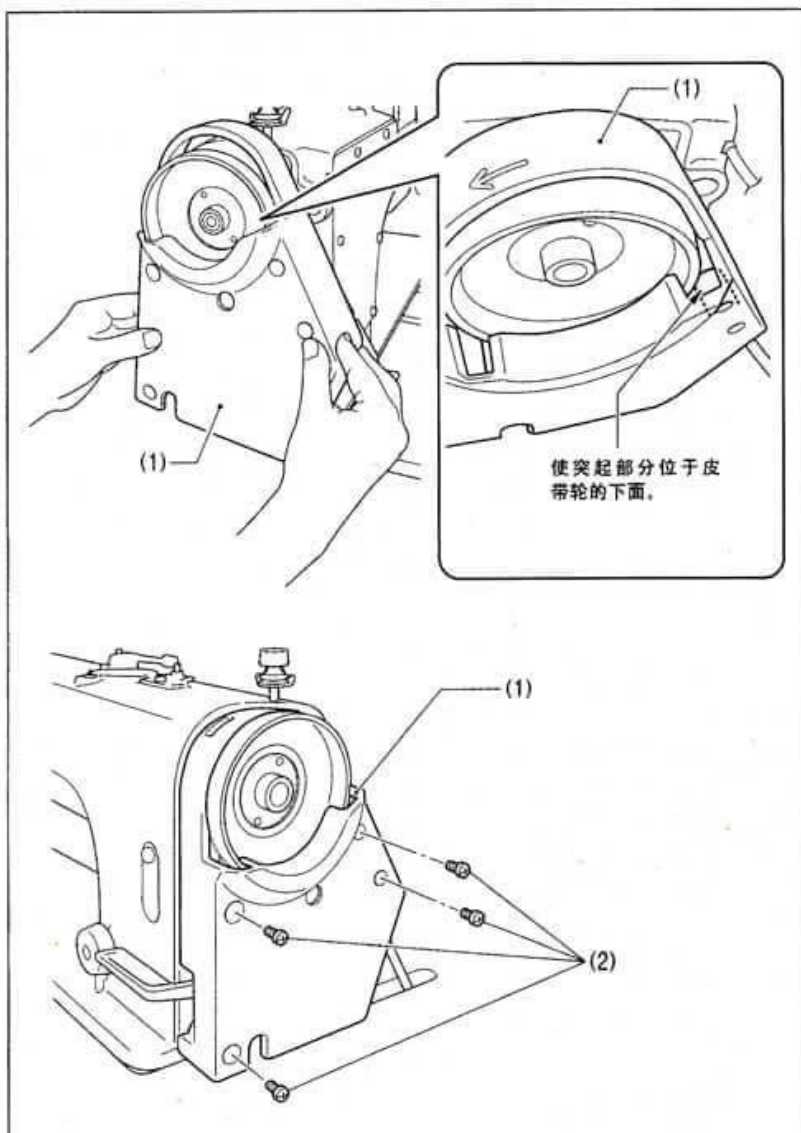


9. Belt cover bracket

- (1) Belt cover bracket
- (2) Screws [2 pcs]

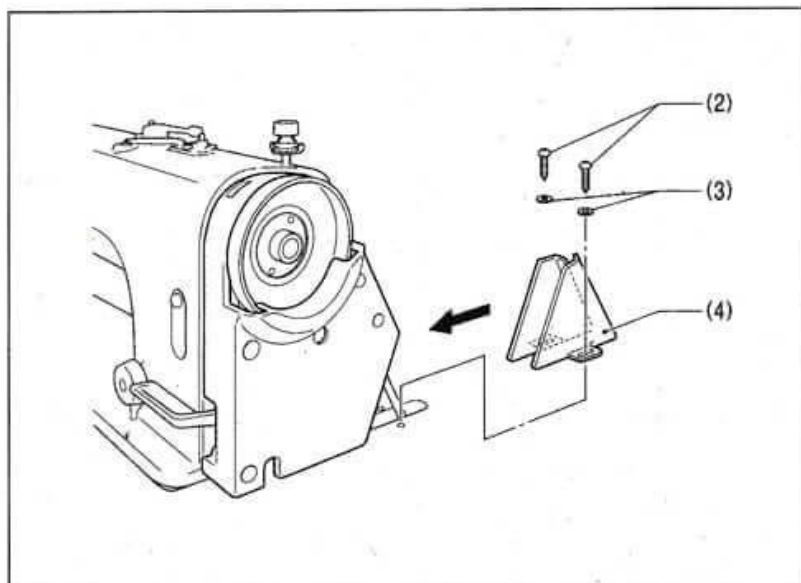
10. U型皮带罩

- (1) U型皮带罩
- (2) 螺钉 (4个)



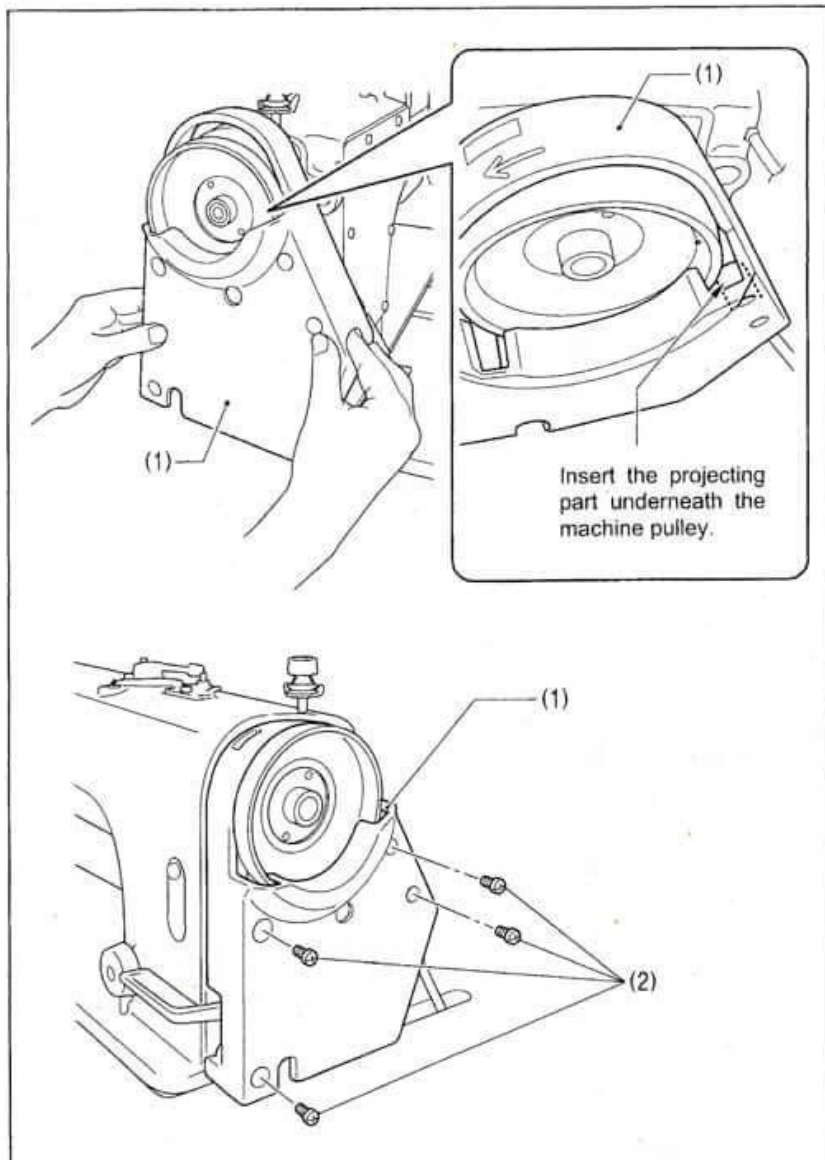
11. D型皮带罩

- (1) D型皮带罩
- (2) 木螺钉 [2个]
- (3) 垫圈 [2片]

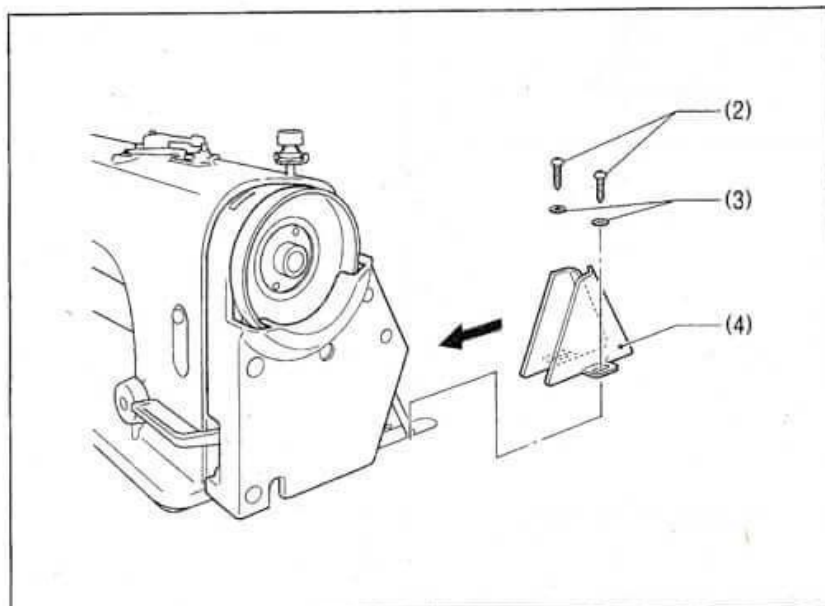


10. Belt cover U

- (1) Belt cover U
- (2) Screws [4 pcs]

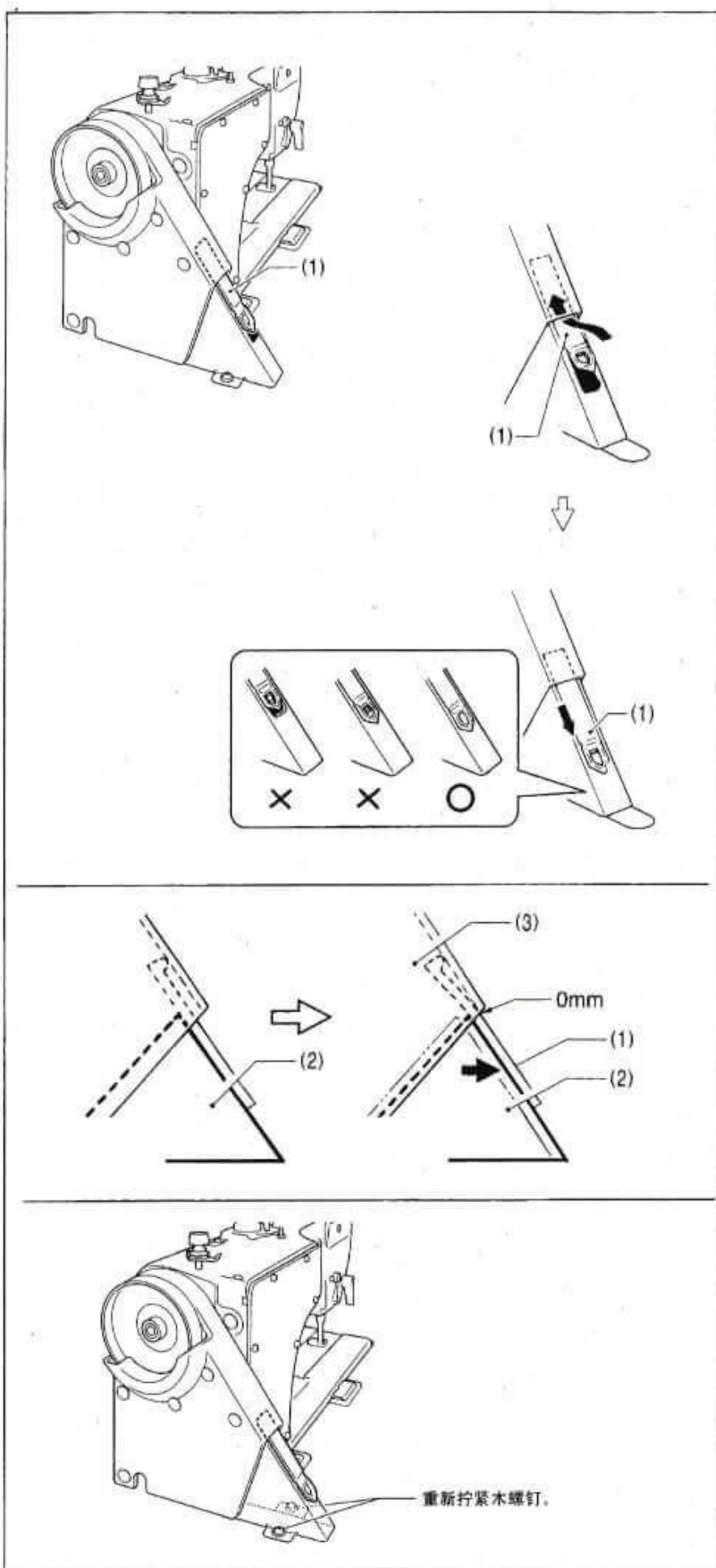
**11. Belt cover D**

- (1) Belt cover D
- (2) Wood screws [2 pcs]
- (3) Washers [2 pcs]



12. 皮带罩D盖

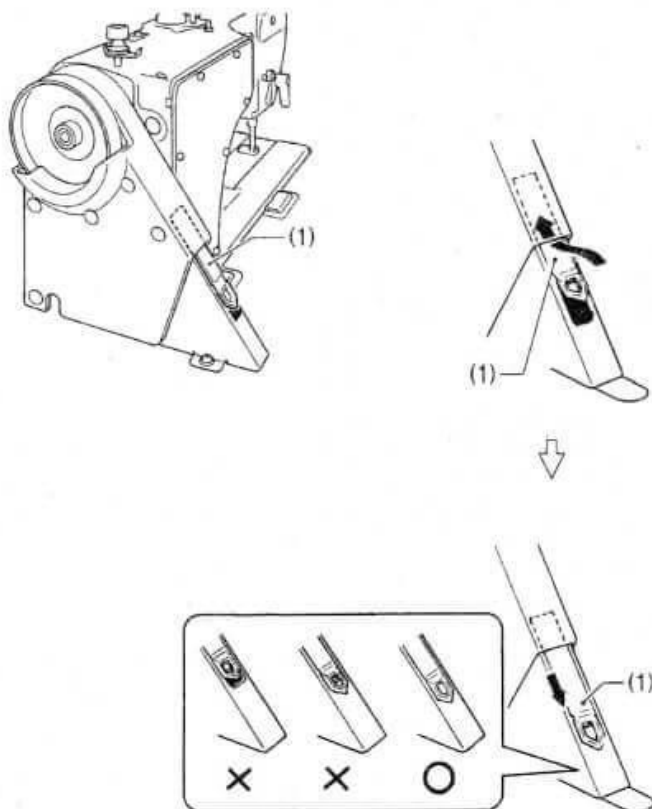
(1) 皮带罩D盖



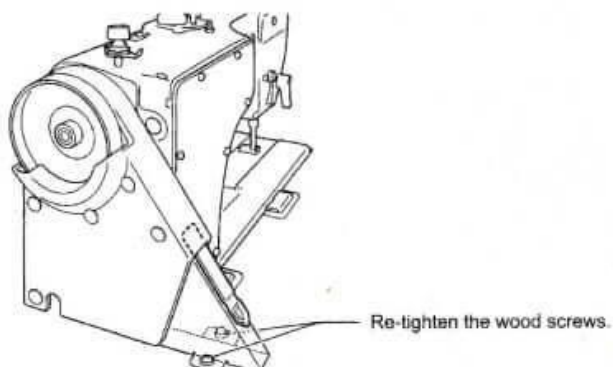
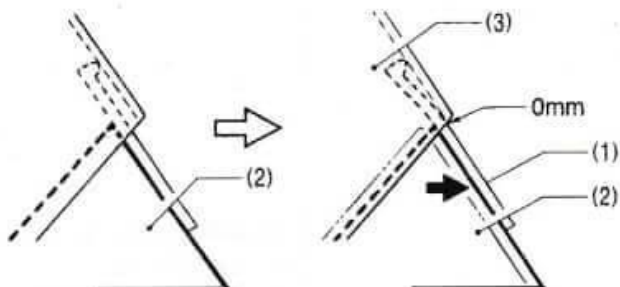
将皮带罩D (2) 朝身边方向拉，以消除皮带罩U (3) 与皮带罩D盖 (1) 之间的间隙。

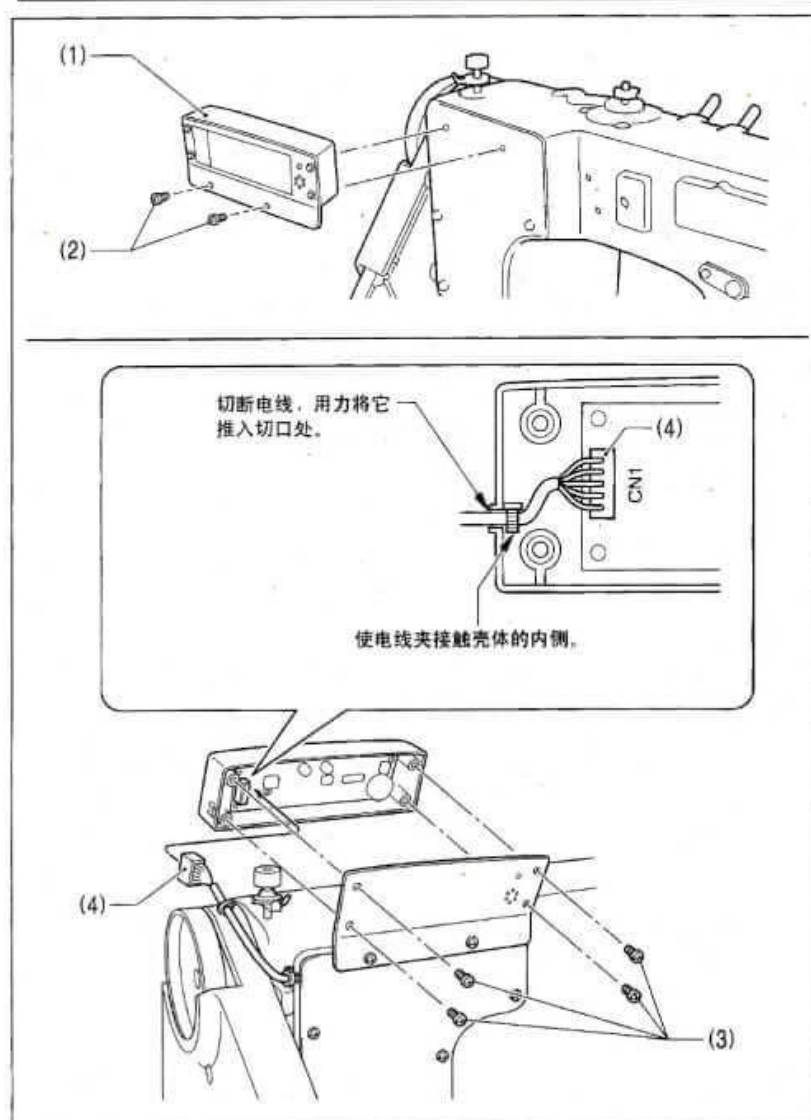
12. Belt cover D lid

(1) Belt cover D lid



Pull belt cover D (2) forward to adjust so that there is no gap between belt cover U (3) and the belt cover D lid (1).



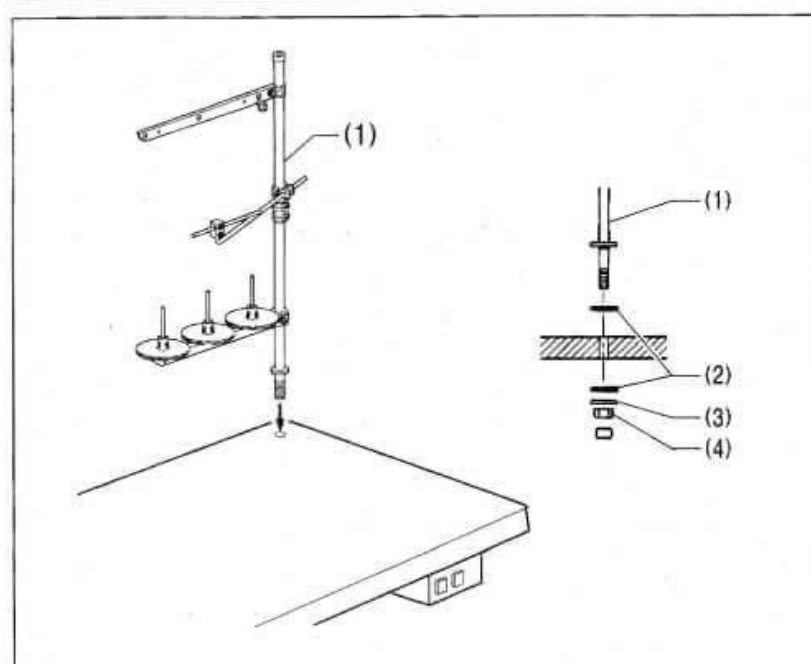


1 3. 警报器（针杆无型）

- (1) 警报器（针杆无型）
 (2) 螺钉（2个）
 （用螺钉将后盖拧紧）

- (3) 固定螺钉 [4个：拧下]
 (4) 插头

在将插头（4）连接到警报器（1）的基板插座〔CN1〕上后，用固定螺钉（3）将警报器（1）安装到原来位置。

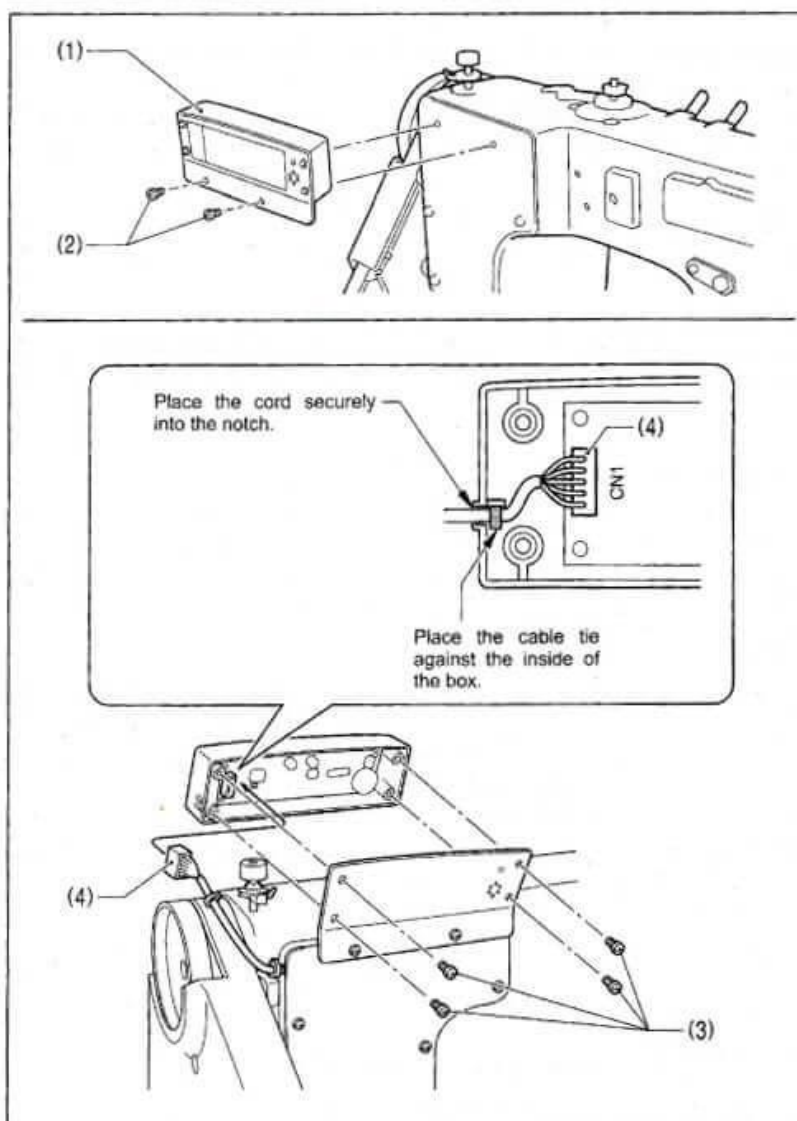


1 4. 线架

- (3) 线架

注意：

将螺母（4）拧紧以便将两个机壳铰链套（2）和垫圈（3）夹紧，使线架（1）不会移动。

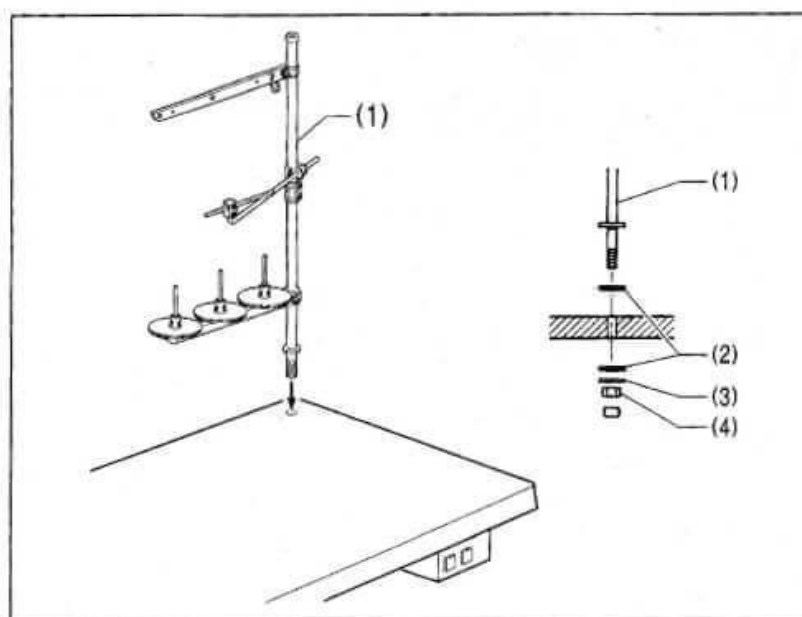


13. Alarm display (semi dry type)

- (1) Alarm display
- (2) Screws [2 pcs]
(Use for tightening rear cover)

- (3) Screws [4 pcs: removed]
- (4) Connector

After connecting the connector (4) to connector <CN1> on the P.C.B. of the alarm display (1), return the alarm display (1) to its original position and then tighten the screws (3).



14. Cotton stand

- (1) Cotton stand

NOTE:

Securely tighten the nut (4) so that the two rubber cushions (2) and the washer (3) are securely clamped and so that the cotton stand (1) does not move.

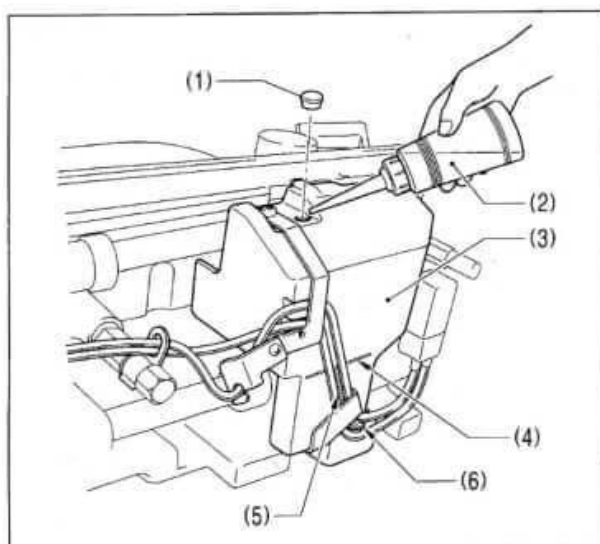
4. 安装方法

4-2. 加油方法

⚠ 注意

- ⊘ 在加油未完成前，请勿插上电源。
当误按动起动开关时，缝纫机动作会导致人员受伤。
- ⊘ 使用润滑油和黄油时，务必戴好保护眼镜和保护手套等，以防润滑油落入眼中或沾在皮肤上，这是引起发炎的原因。
另外，润滑油或黄油不能饮用，否则会引起呕吐和腹泻。
将油放在小孩拿不到的地方。

- 必须经常润滑缝纫机，第一次使用缝纫机或长时间未使用缝纫机时，要补充机油。
- 请使用本公司指定的 [HIGH SPEED SEWING MACHINE OIL] (ISO 粘度与 VG22 相同)。



<给油盖添加机油>

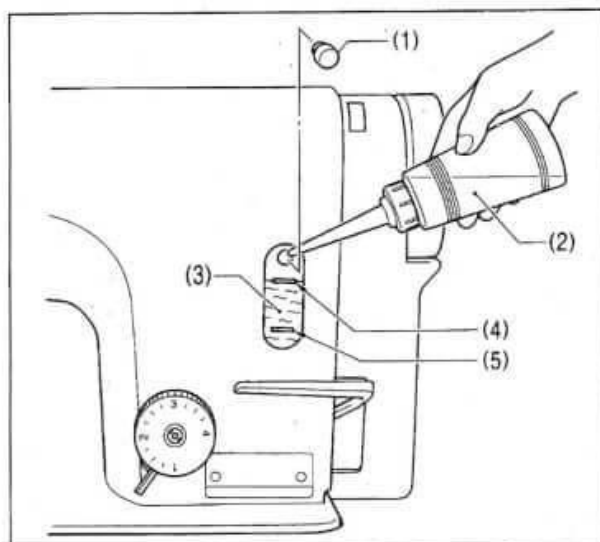
1. 向后倾斜缝纫机头部。
2. 拆下橡皮塞 (1)。
3. 用随带的油壶 (2) 给油盖 (3) 添加润滑油，直至液位达到基准线 (4) 位置。

注意：

添加润滑油时请不要超过基准线 (4)。否则当缝纫机头部倒下时，润滑油可能会溢出。

4. 将橡皮塞 (1) 装回原处。
5. 将缝纫机头部返回至原位。

* 当润滑油的液位下降到油量表视窗 (5) 的下部 (6) 以下时，请务必补充润滑油。



<给油箱添加机油>

1. 拆下橡皮塞 (1)。
2. 用随带的油壶 (2) 添加润滑油，直至液位达到油量表视窗 (3) 的上基准线 (4) 位置。
3. 将橡皮塞 (1) 装回原处。

* 当润滑油的液位下降到下基准线 (5) 以下时，请务必补充润滑油。

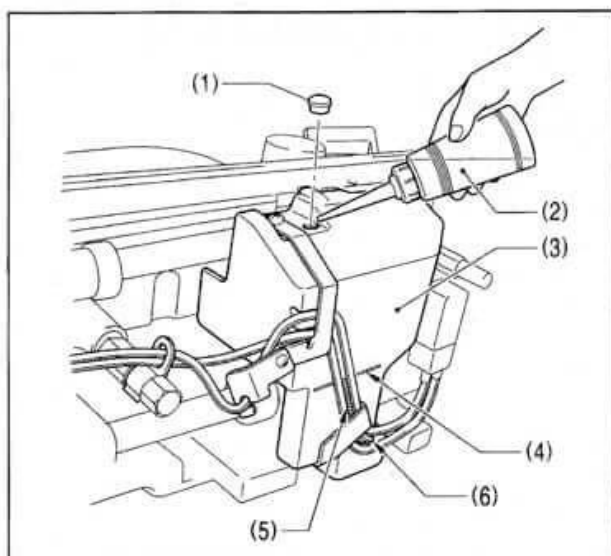
4. INSTALLATION

4-2. Lubrication

⚠ CAUTION

- ⊘ Do not connect the power cord until lubrication has been completed, otherwise the machine may operate if the treadle is depressed by mistake, which could result in injury.
- ⊘ Be sure to wear protective goggles and gloves when handling the lubricating oil and grease, so that they do not get into your eyes or onto your skin, otherwise inflammation can result. Furthermore, do not drink the oil or eat the grease under any circumstances, as they can cause vomiting and diarrhea. Keep the oil out of the reach of children.

- The sewing machine should always be lubricated and the oil supply replenished before it is used for the first time, and also after long periods of non-use.
- Use only the lubricating oil.



<Lubricating via the oil cover>

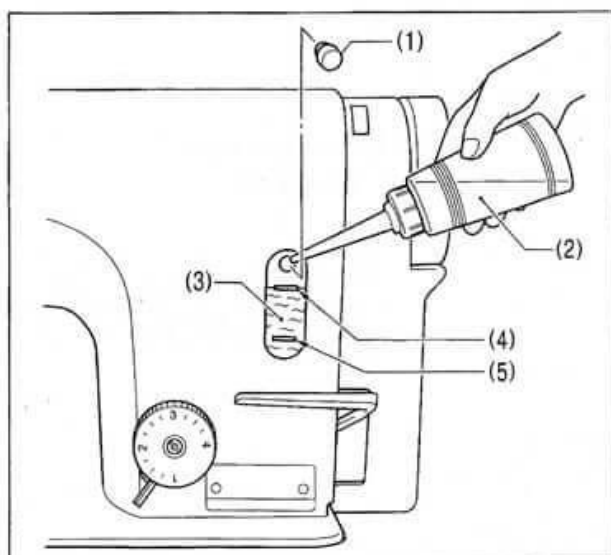
1. Tilt back the machine head.
2. Remove the rubber cap (1).
3. Use the accessory oiler (2) to pour lubricating oil into the oil cover (3) until the oil level reaches the reference line (4).

NOTE:

Do not fill with lubricating oil past the reference line (4). If you pour in too much lubricating oil, it may spill out when the machine head is tilted back.

4. Replace the rubber cap (1).
5. Return the machine head to its original position.

- If the lubricating oil level drops below the bottom (6) of the oil gauge window (5), be sure to add more oil.



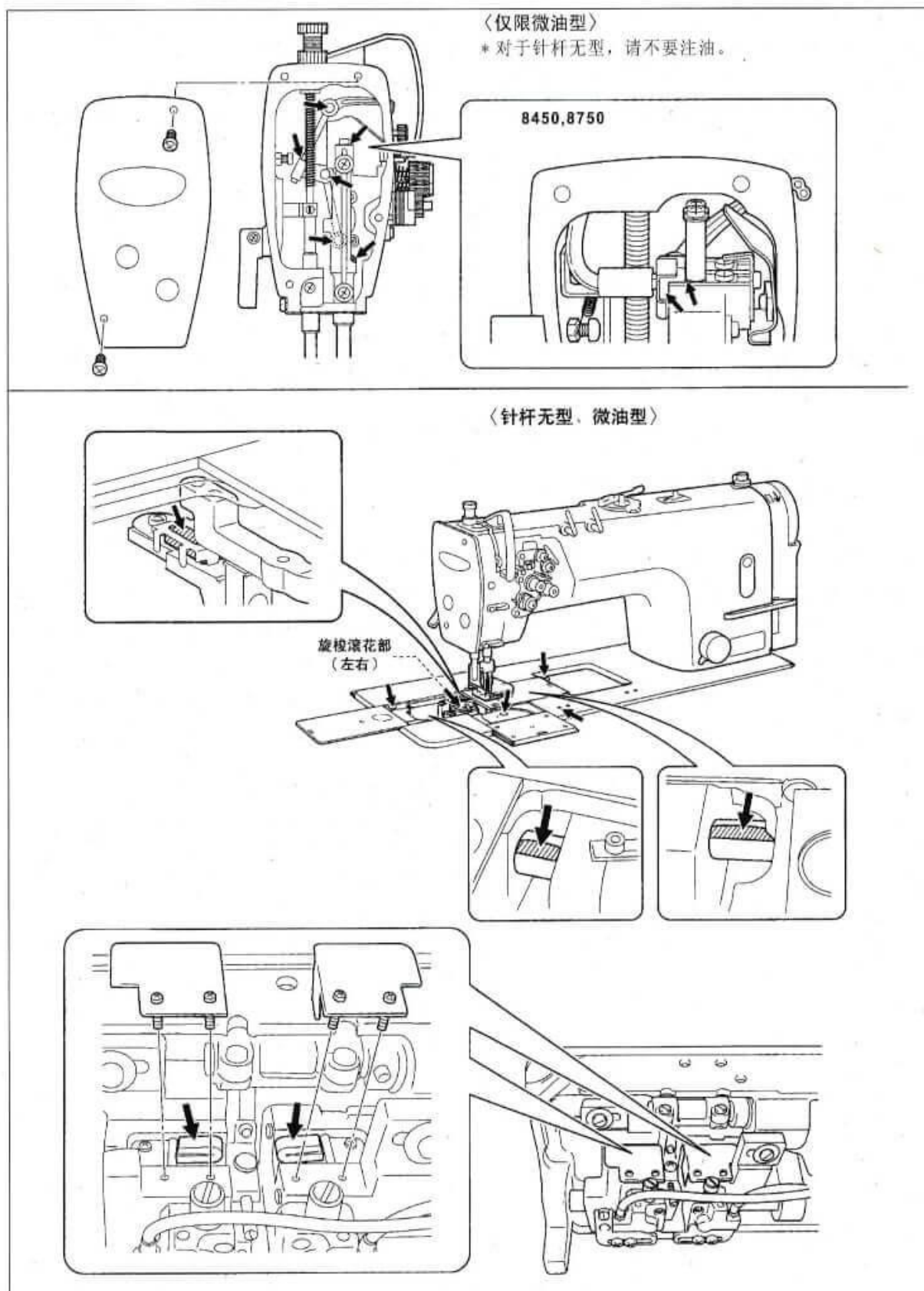
<Lubricating via the oil tank>

1. Remove the rubber cap (1).
2. Use the accessory oiler (2) to pour in lubricating oil until the oil level reaches the top reference line (4) of the oil gauge window (3).
3. Replace the rubber cap (1).

- If the lubricating oil level drops below the bottom reference line (5), be sure to add more oil.

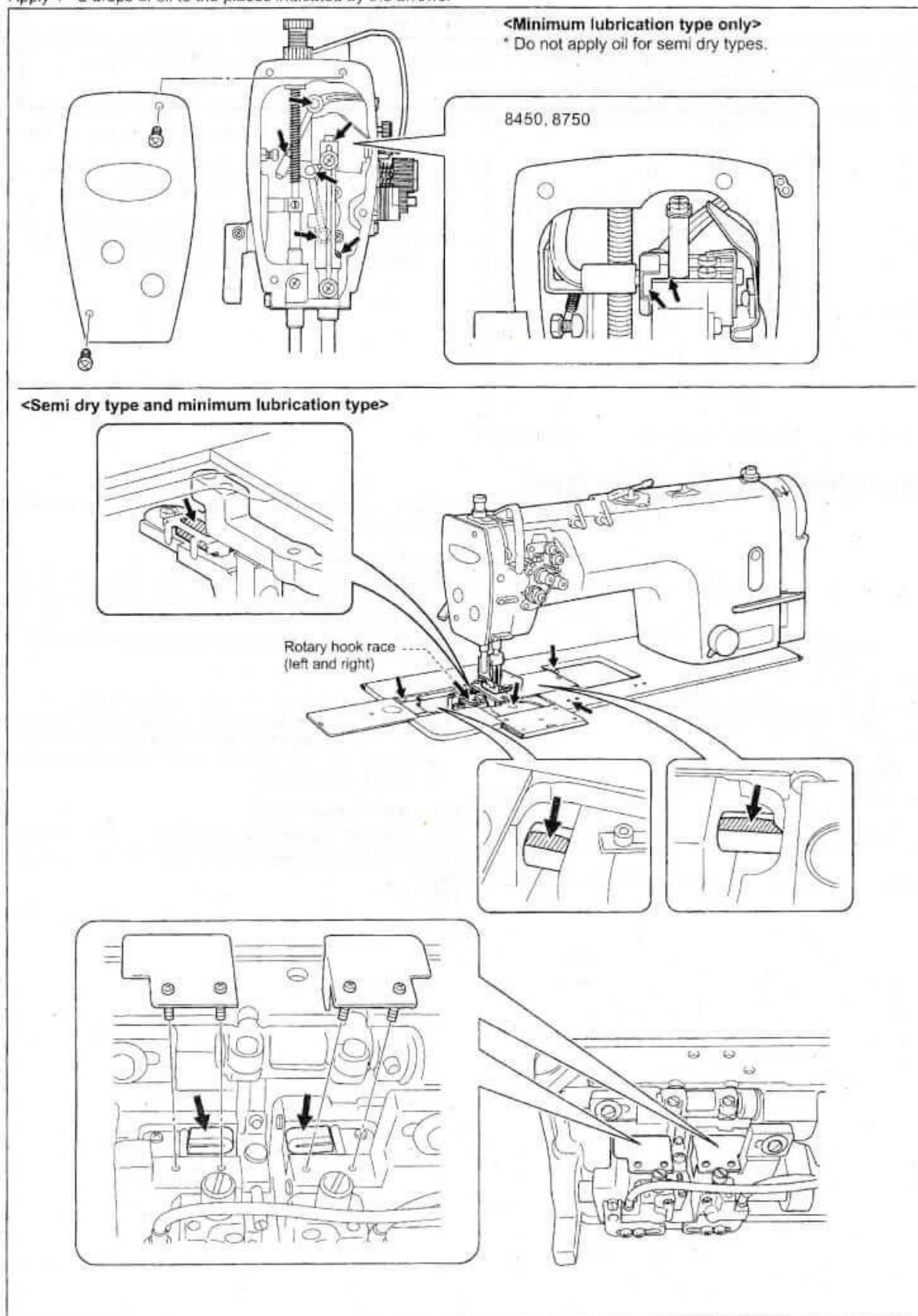
■注油

在每个箭头标记处注入1~2滴润滑油。



■ Lubrication

Apply 1 - 2 drops of oil to the places indicated by the arrows.

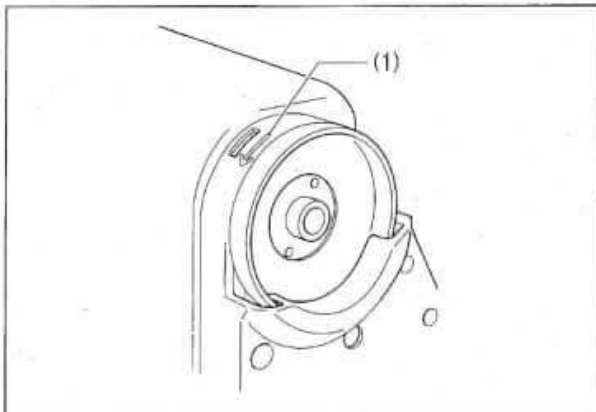


4-3. 缝纫手轮旋转方向的确认

! 注意



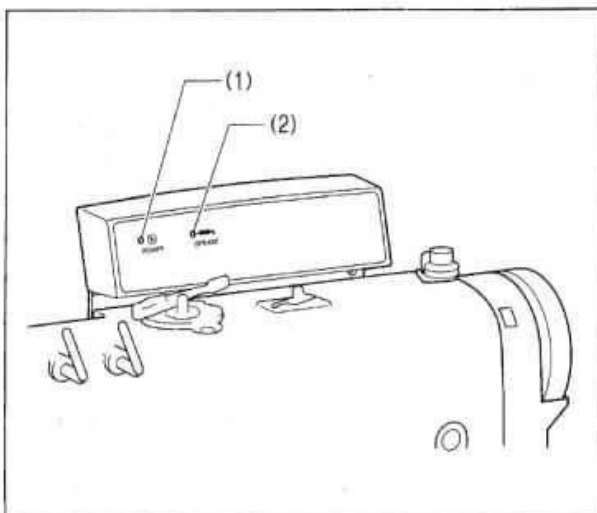
缝纫过程中，不要触摸任何运动部件或将物件靠在运动部件上，因为这会导致人员受伤或缝纫机损坏。



1. 将电源插头插入电源插座，打开电源开关。
2. 逐渐地往下踩踏板，确认缝纫手轮应开始朝箭头 (1) 的方向旋转。

* 如果缝纫手轮的旋转方向相反，则请参照马达的使用说明书来校正旋转方向。

4-4. 关于警报器（针杆无型）



警报器是用于通知润滑脂补充时间的装置。

(1) POWER 指示灯（绿色）

POWER 指示灯 (1) 仅在缝纫机工作时点亮。

当缝纫机停止工作时，指示灯不点亮。

（警报器将累计 POWER 指示灯 (1) 点亮时的时间。

注意：

当缝纫机转速较低时，或者当停止数分钟后又开始工作时，POWER 指示灯 (1) 可能会不点亮，但这不属于故障。

(2) GREASE 指示灯（红色）

如果每次踩下踏板，GREASE 指示灯 (2) 就点亮、蜂鸣器鸣响，则请补充润滑脂。

（参照第 30 页）

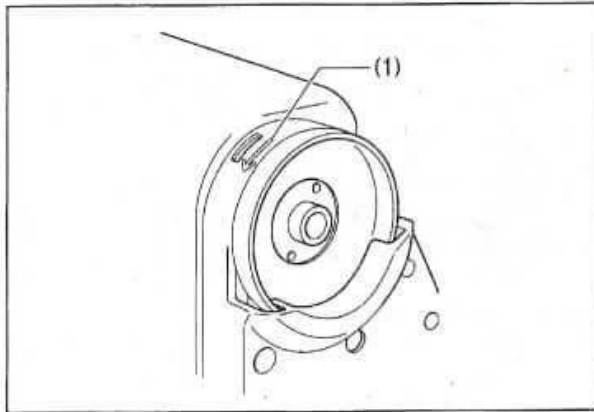
4. INSTALLATION

4-3. Checking the machine pulley rotating direction

⚠ CAUTION



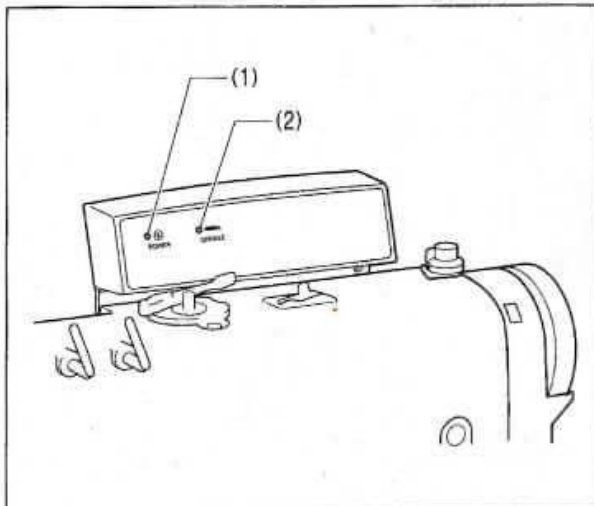
Do not touch any of the moving parts or press any objects against the machine while sewing, as this may result in personal injury or damage to the machine.



1. Insert the power cord plug into the wall outlet, and then turn on the power switch.
2. Depress the treadle slightly and check that the machine pulley starts to turn in the direction of the arrow (1).

* If the direction of rotation is reversed, change the direction of rotation to the correct direction while referring to the instruction manual for the motor.

4-4. Alarm display (Semi dry type)



The alarm display is a device that shows the time until the next greasing is required.

(1) POWER indicator (green)

The POWER indicator (1) only illuminates while the sewing machine is operating. It does not illuminate while the sewing machine is stopped.

(The alarm display makes a total of the time that the POWER indicator (1) is lit.)

NOTE:

The POWER indicator (1) may not illuminate at times such as if the sewing machine is operating at a slow speed, or when operation starts again after having been stopped for several minutes, but this is normal and is not the sign of a malfunction.

(2) GREASE indicator (red)

If the GREASE indicator (2) illuminates and the buzzer sounds each time the treadle is depressed, it is time to apply grease.

(See P. 30.)

5. 缝纫前的准备

5-1. 机针的安装方法

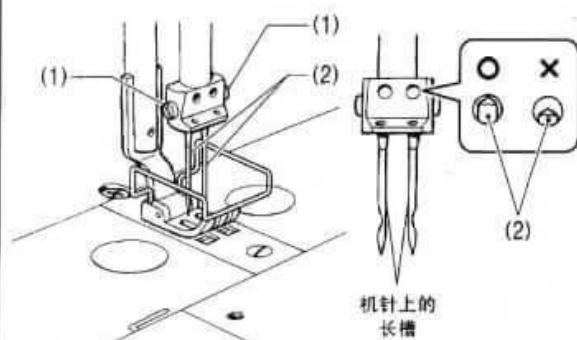
⚠ 注意



安装机针时，请切断电源。但在切断电源后，马达在稍后的一段时间内因惯性仍会继续转动，请在马达完全停止后，再进行作业。

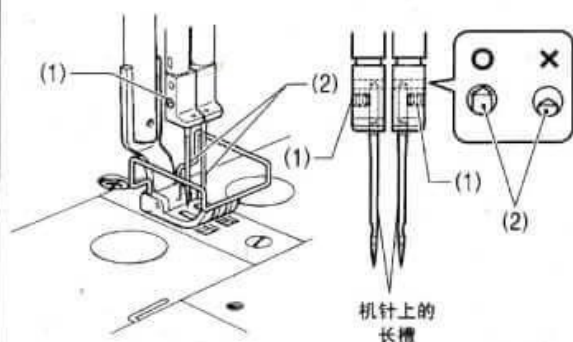
当误按动起动开关时，缝纫机动作会导致人员受伤。

8420, 8720



1. 转动缝纫机手轮，将针杆移至最高位置。
2. 松开螺钉（1）。
3. 将机针（2）上的长槽朝着内侧，笔直插到底并拧紧止动螺钉（1）。

8450, 8750



5. PREPARATION BEFORE SEWING

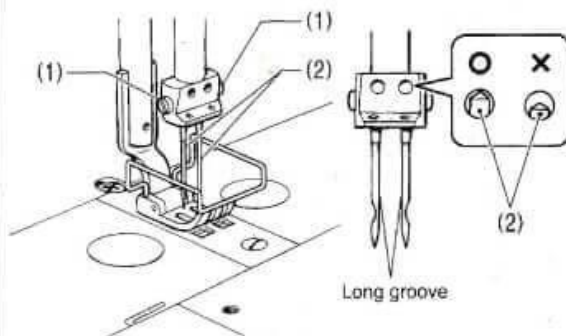
5-1. Installing the needle

⚠ CAUTION



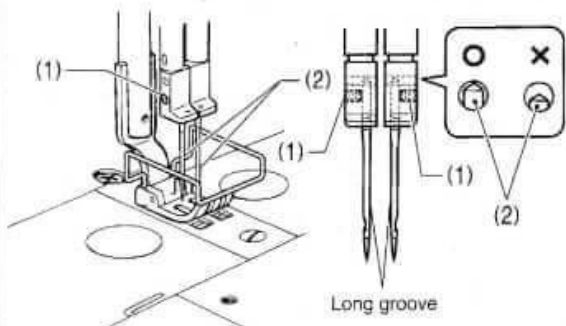
Turn off the power switch before installing the needle. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work.
The machine may operate if the treadle is depressed by mistake, which could result in injury.

8420, 8720



1. Turn the machine pulley to move the needle bar to its highest position.
2. Loosen the screws (1).
3. Insert the needle (2) straight in as far as it will go so that the long groove is facing inward, and then securely tighten the screws (1).

8450, 8750



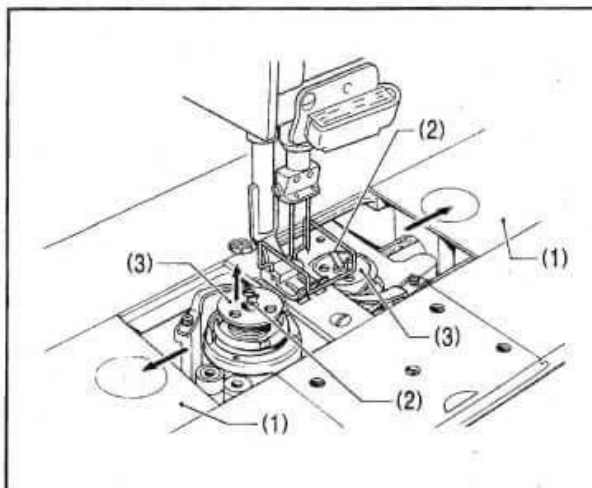
5-2. 梭芯的装拆方法

! 注意



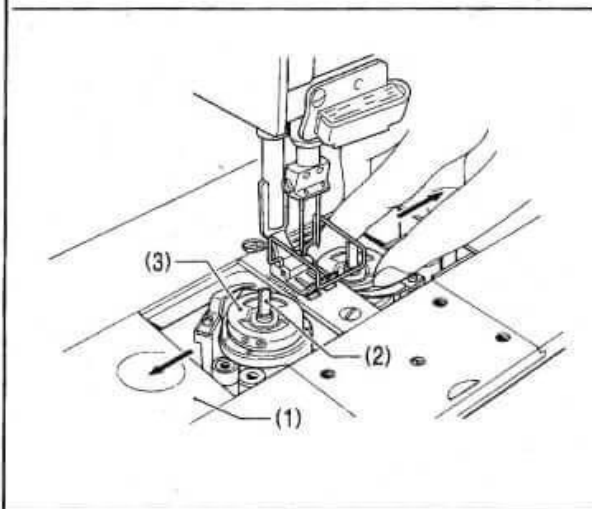
取出梭芯时，请切断电源。但在切断电源后，马达在稍后的一段时间内因惯性仍会继续转动，请在马达完全停止后，再进行作业。

当误按动起动开关时，缝纫机动作会导致人员受伤。



<挂钩式>

1. 将滑板(1)左右分开。
2. 将旋梭的捏手(2)提起之后，取出梭芯(3)。



<梭芯套式>

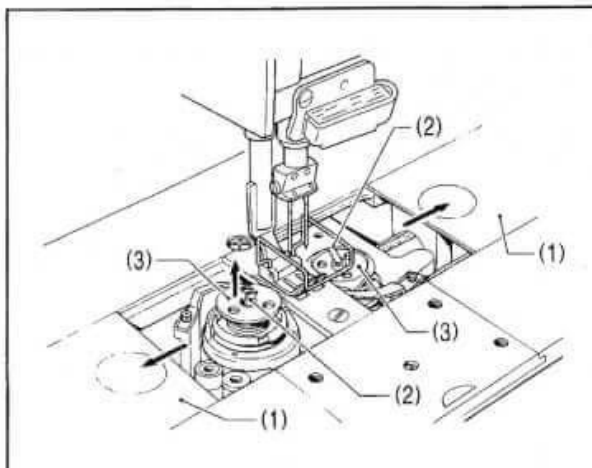
1. 将滑板(1)左右分开。
2. 将旋梭的捏手(2)提起之后，取出梭芯套(3)。
3. 取出梭芯。

5-2. Removing the bobbin

CAUTION

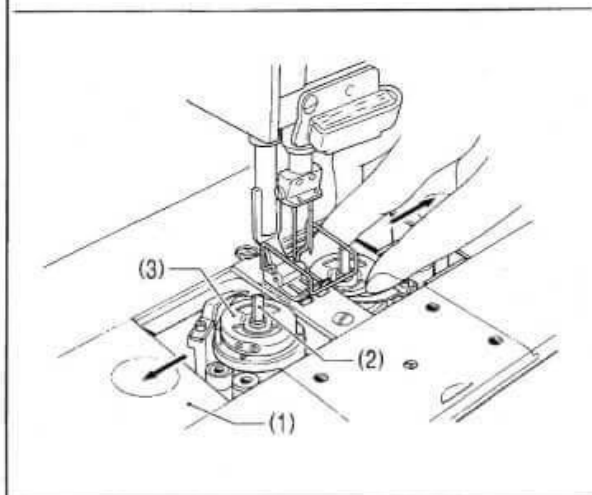


Turn off the power switch before removing the bobbin. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work.
The machine may operate if the treadle is depressed by mistake, which could result in injury.



<Latch type>

1. Open the slide plates (1) by moving them to the right and left.
2. Pull the rotary hook latches (2) upward, and then remove the bobbins (3).



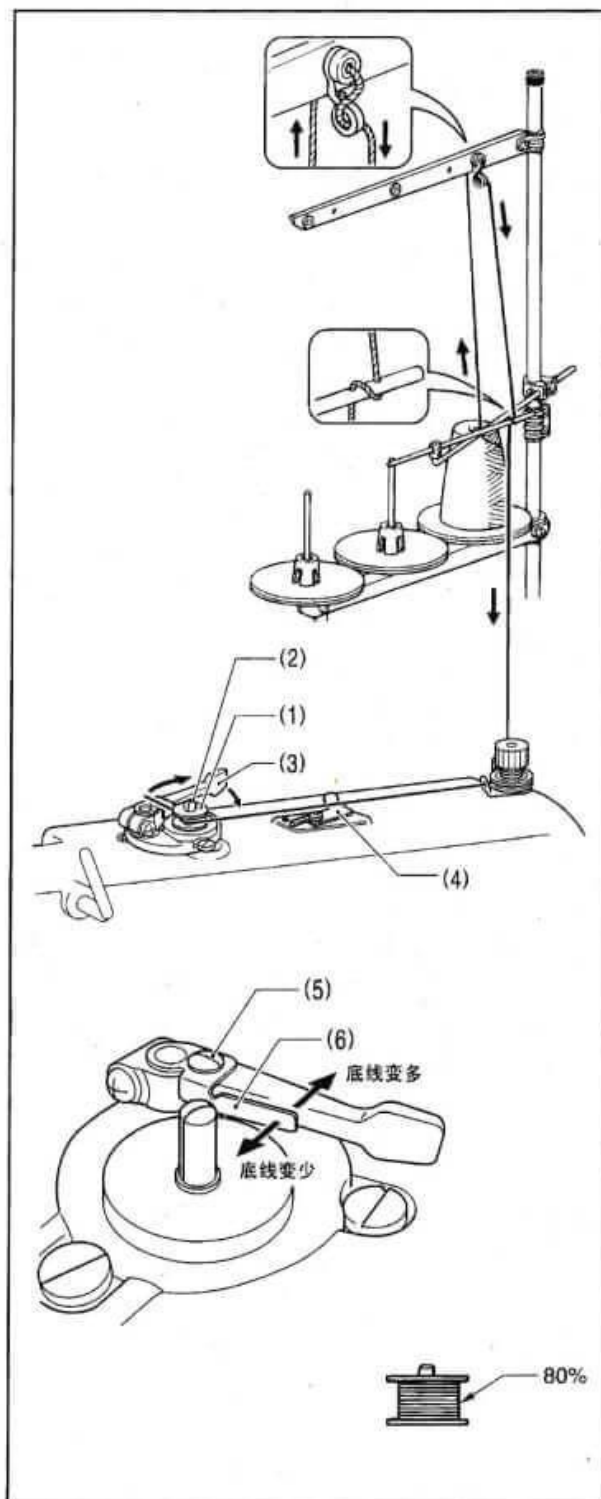
<Bobbin case type>

1. Open the slide plates (1) by moving them to the right and left.
2. Lift up the latch (2) of the rotary hook, and then remove the bobbin case (3).
3. Remove the bobbin.

5-3. 底线的绕线方法

! 注意

在卷线过程中，不要触摸任何运动部件或将物件靠在运动部件上，因为这会导致人员受伤或缝纫机损坏。



1. 打开电源开关。
2. 将梭芯(1)置于梭芯卷线轴(2)上。
3. 按箭头所示的方向将线在梭芯(1)上卷绕几次。
* 请确认各部分的机线应没有松弛。
4. 将梭芯压臂柄(3)推向梭芯(1)。
5. 用压脚扳手将压脚抬起。
6. 踏下脚踏板，随即开始卷绕底线。
7. 底线卷绕一旦完成，梭芯压臂柄(3)将自动返回。
8. 底线卷绕之后，将梭芯拆下，用切刀(4)将线剪断。

* 松开螺钉(5)，移动梭芯压杆(6)调节卷绕在梭芯上的底线量。

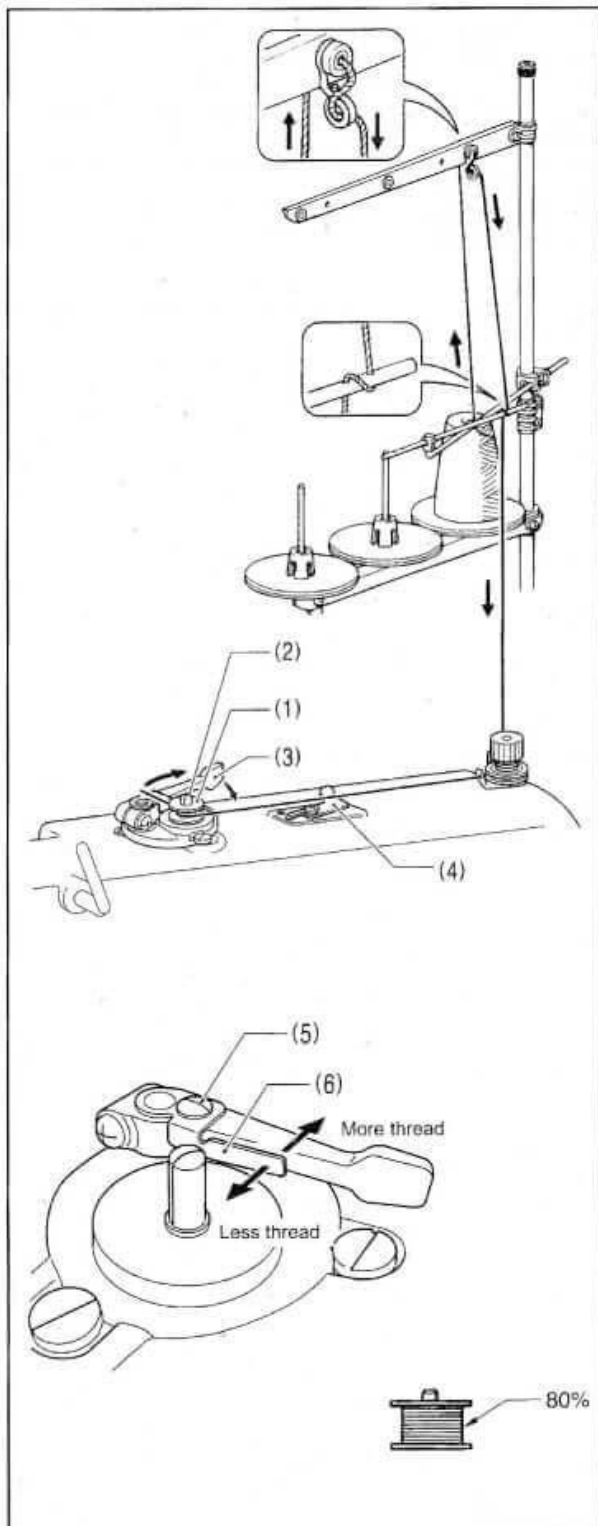
注意：

卷绕在梭芯上的底线量最多应为梭芯容量的80%。

5-3. Winding the lower thread

CAUTION

Do not touch any of the moving parts or press any objects against the machine while winding the lower thread, as this may result in personal injury or damage to the machine.



1. Turn on the power switch.
2. Place the bobbin (1) onto the bobbin winder shaft (2).
3. Wind the thread several times around the bobbin (1) in the direction indicated by the arrow.
 - * Check that the thread is not loose anywhere along the thread path.
4. Push the bobbin presser arm (3) toward the bobbin(1).
5. Raise the presser foot with the lifting lever.
6. Depress the treadle. Lower thread winding will then start.
7. Once winding of the lower thread is completed, the bobbin presser arm (3) will return automatically.
8. After the thread has been wound on, remove the bobbin and cut the thread with the knife (4).

- * Loosen the screw (5) and move the bobbin presser (6) to adjust the amount of thread wound onto the bobbin.

NOTE:

The amount of thread wound onto the bobbin should be a maximum of 80 % of the bobbin capacity.

5-4. 梭芯的装取方法

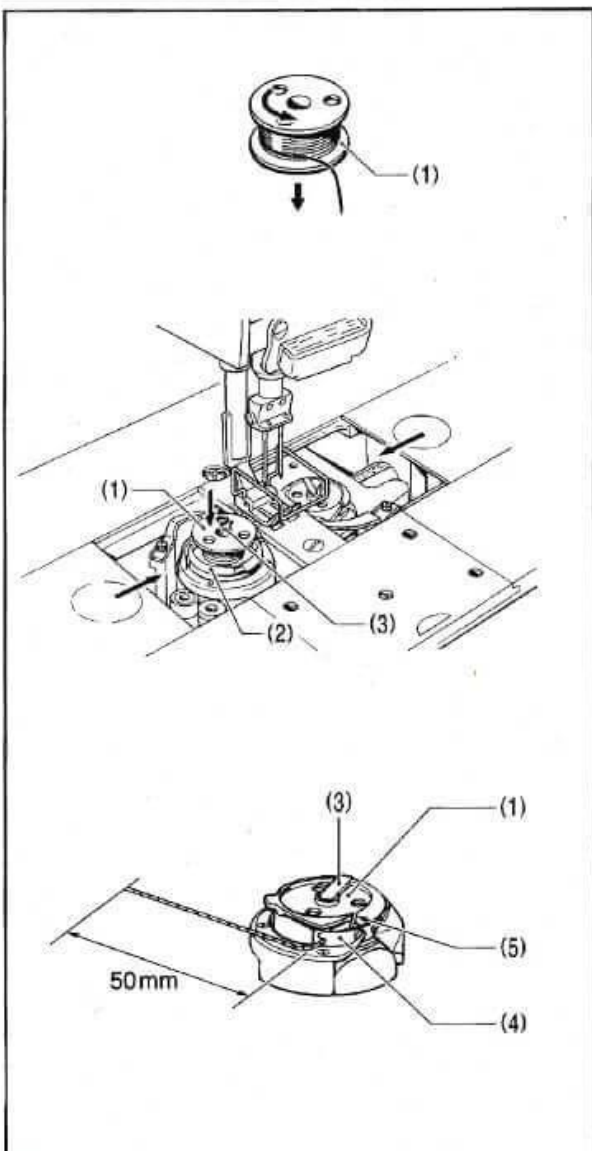
⚠ 注意



取出梭芯时，请切断电源。但在切断电源后，马达在稍后的一段时间内因惯性仍会继续转动，请在马达完全停止后，再进行作业。
当误按动起动开关时，缝纫机动作会导致人员受伤。

<挂钩式>

1. 将线的绕向置于如图所示的方向，然后将梭芯(1)放入旋梭(2)内。
2. 将旋梭的握手(3)倒下。
3. 转动缝纫机的皮带轮，使旋梭(2)转到能见到张力弹簧(4)的位置。
4. 将线穿过旋梭的线槽(5)，使它通过张力弹簧(4)的下面。
5. 将线拉出约 50mm。
6. 关闭滑板。

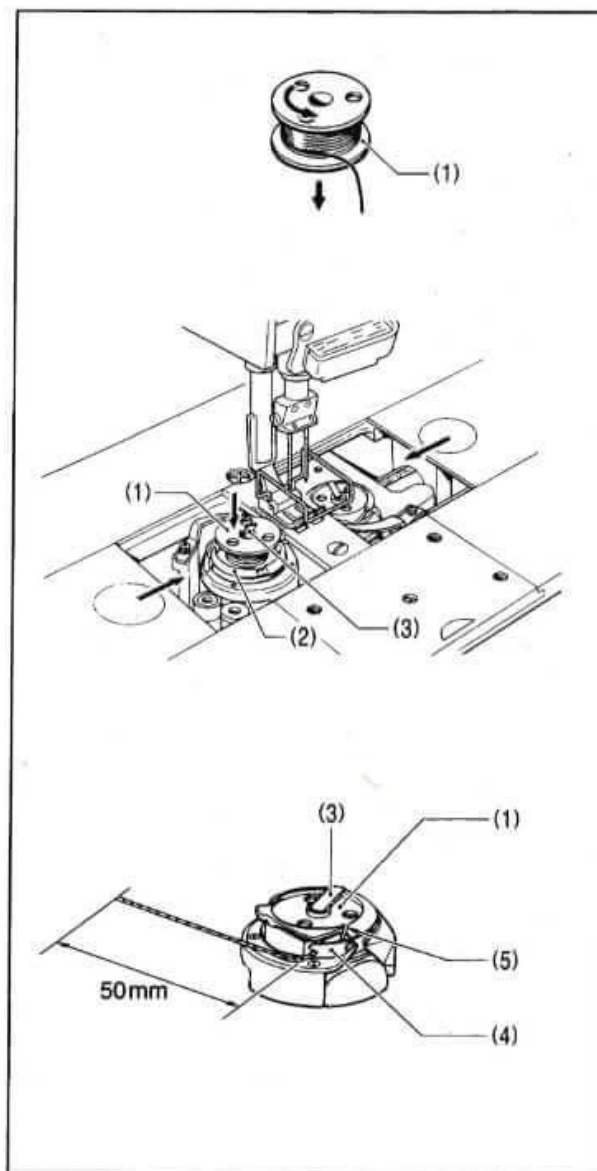


5-4. Installing the bobbin

⚠ CAUTION



Turn off the power switch before installing the bobbin. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work.
The machine may operate if the treadle is depressed by mistake, which could result in injury.

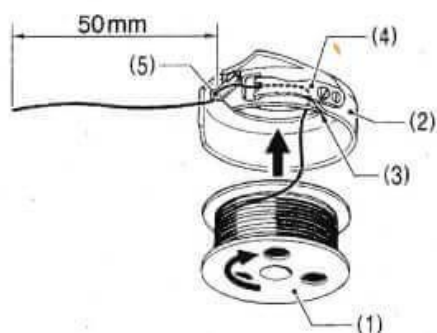


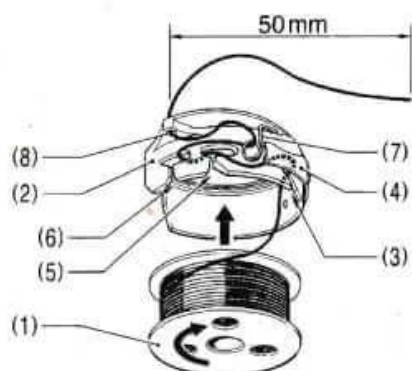
<Latch type>

1. Insert the bobbin (1) into the rotary hook (2) so that the winding direction is as shown in the illustration.
2. Return the rotary hook latch (3) to its original position.
3. Turn the machine pulley to rotate the rotary hook (2) until the tension spring (4) is visible.
4. Pass the thread through slit (5) in the rotary hook and then pass it under the thread tension spring.
5. Pull out the thread to a length of approximately 50 mm.
6. Close the slide plates.

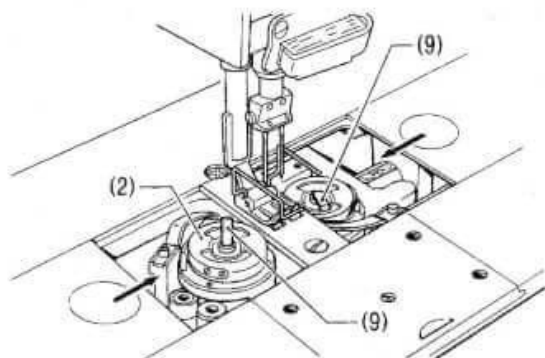
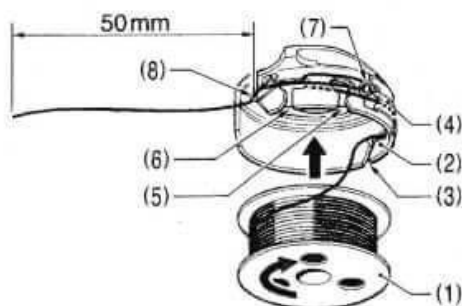
- Use bobbins (1) made of light alloy as specified by BROTHER.

<A>





<C>



<梭芯套式>

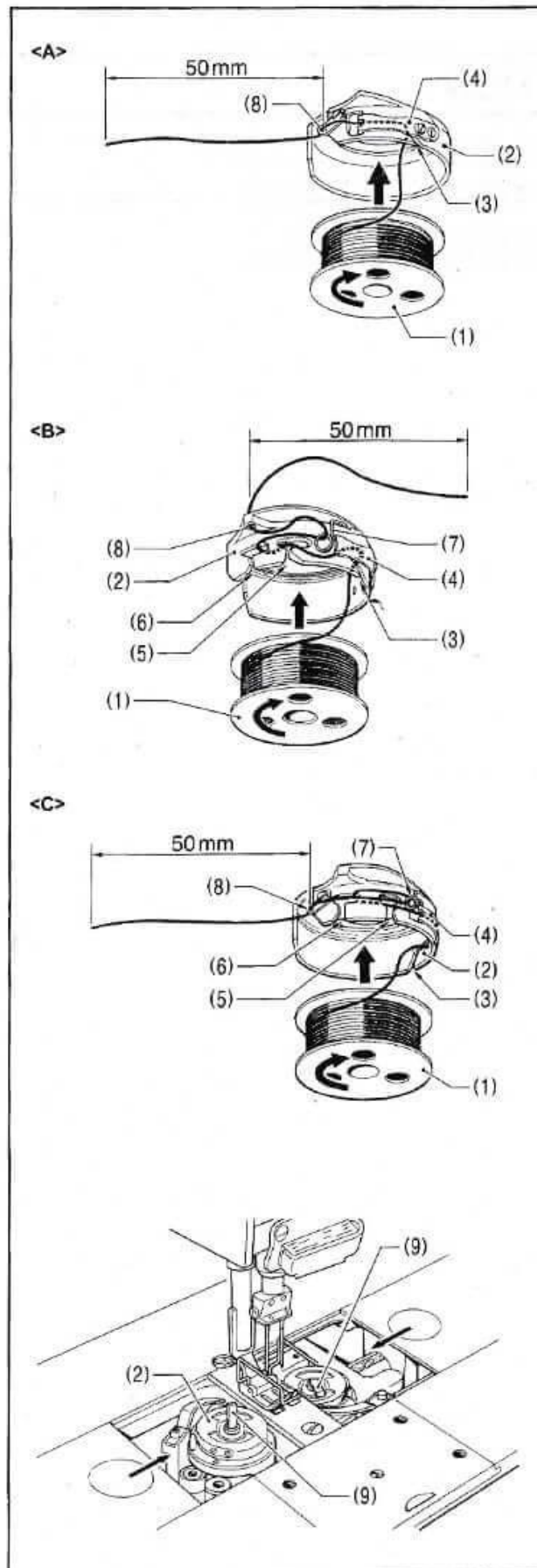
1. 将线的绕向置于如图所示的方向，然后将梭芯(1)放入梭芯套(2)内。
2. 梭芯套(2)有<A>、、<C>三种。
请根据所使用的梭芯套(2)的形状，按下述进行穿线。

<A>

- 1) 将线穿过线槽(3)，使它通过张力弹簧(4)的下面。
- 2) 将线穿过线孔(8)，并拉出约50mm。

 <C>

- 1) 将线穿过线槽(3)，使它通过张力弹簧(4)的下面。
 - 2) 将线穿过线槽(5)、(6)，使它钩在底线张力弹簧(7)上。
 - 3) 将线穿过线孔(8)，并拉出约50mm。
3. 将梭芯套(2)放入旋梭内。
 4. 将旋梭的捏手(9)倒下。
 5. 关闭滑板。



<Bobbin case type>

1. Insert the bobbin (1) into the bobbin case (2) so that the winding direction is as shown in the illustration.
2. There are three types of cap (2) (<A>, and <C>). Thread the thread by one of the following methods in accordance with the shape of the bobbin case (2) being used.

<A>

- 1) Pass the thread through slot (3) and under the thread tension spring (4).
- 2) Pass the thread through the thread hole (8) and pull out about 50 mm.

 <C>

- 1) Pass the thread through slot (3) and under the thread tension spring (4).
 - 2) Pass the thread through slots (5) and (6), and then through the spring (7).
 - 3) Pass the thread through the thread hole (8) and pull out about 50 mm.
3. Insert the bobbin case (2) into the rotary hook.
 4. Push latch (9) of the rotary hook flat.
 5. Close the slide plates.

- Use bobbins (1) made of light alloy as specified by BROTHER.

5-5. 面线的穿法



在穿线过程中, 请切断电源。但在切断电源后, 马达在稍后的一段时间内因惯性仍会继续转动, 请在马达完全停止后, 再进行作业。
当误按动起动开关时, 缝纫机动作会导致人员受伤。

- 在穿引面线之前转动手轮, 抬高挑线杆(1)。这样会使穿引更加容易, 并防止面线在缝纫开始时脱落。
- 先穿左侧的线。

5. PREPARATION BEFORE SEWING

5-5. Threading the upper thread

CAUTION

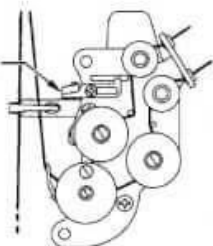


Turn off the power switch before threading the upper thread. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work.
The machine may operate if the treadle is depressed by mistake, which could result in injury.

- Turn the machine pulley and raise the thread take-up (1) before threading the upper thread.
This will make threading easier and it will prevent the thread from coming out at the sewing start.
- Thread the left-side thread first.

<女式内衣规格以外>

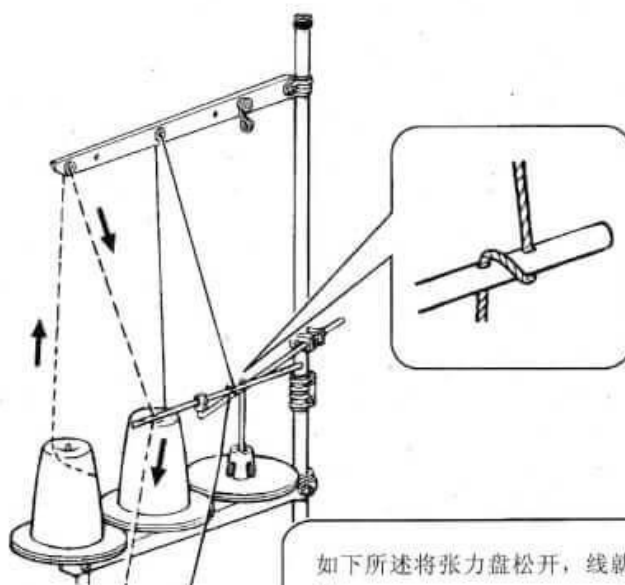
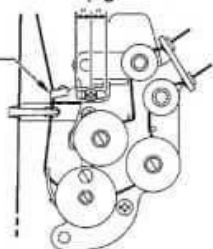
线不穿过



<女式内衣规格>

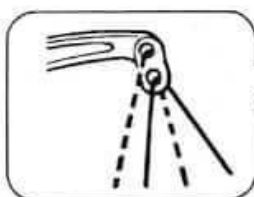
线穿过

中心

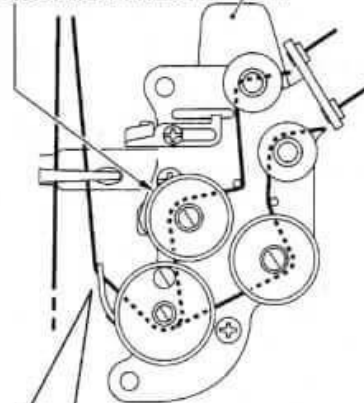


如下所述将张力盘松开，线就容易穿过。

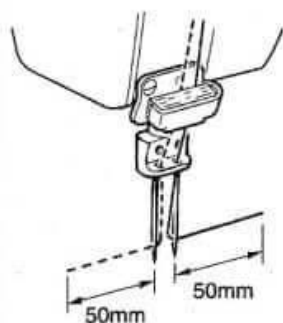
- 按下松线板(2)。
- 者用压脚扳手或膝腔将压脚抬起。



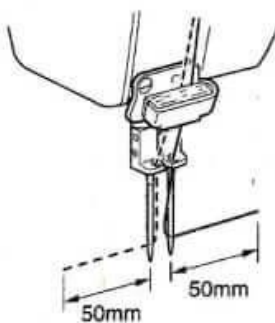
切实使线通过各张力盘之间。(2)



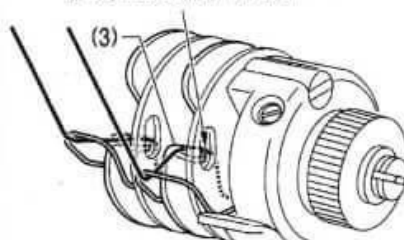
8420,8720

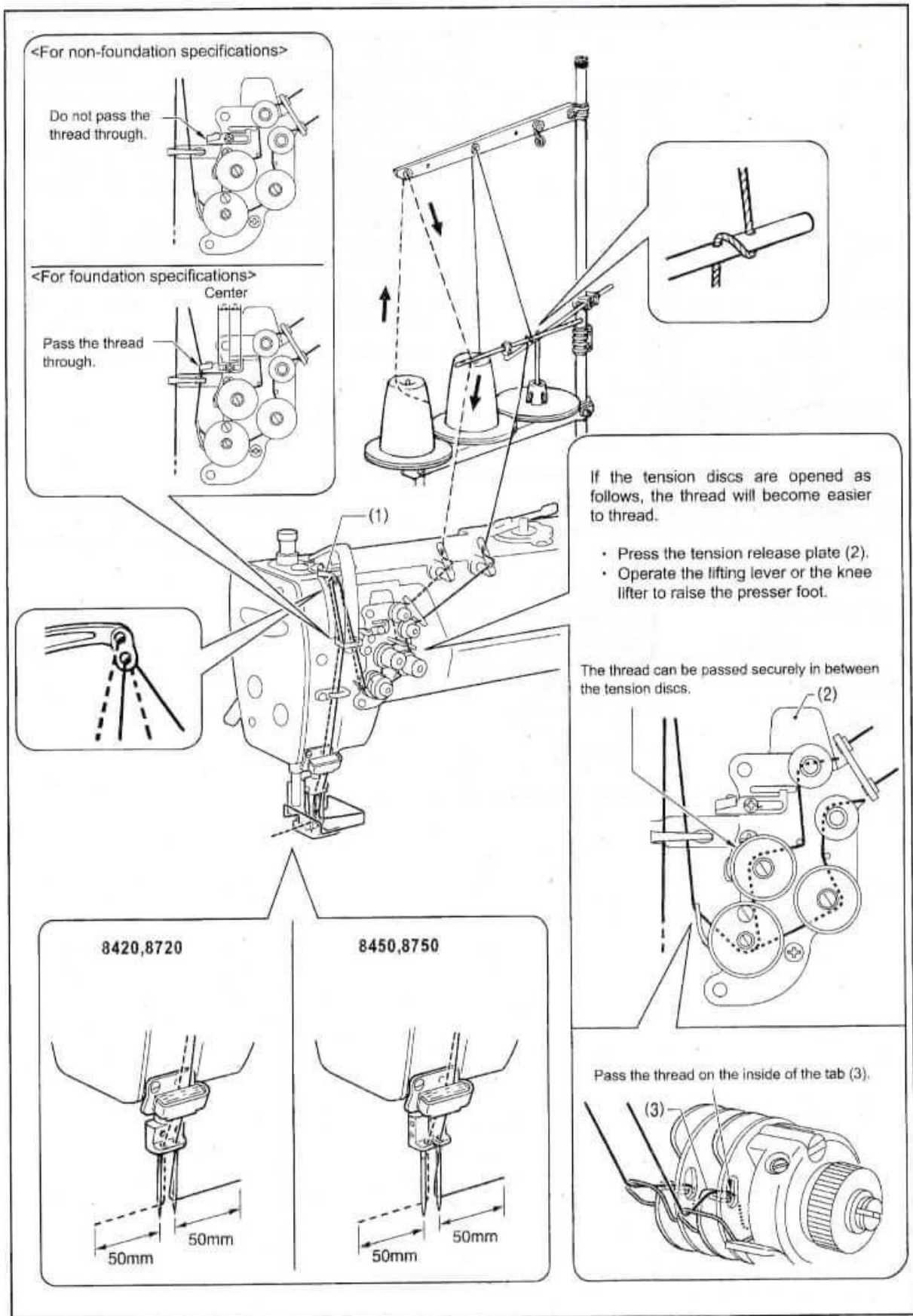


8450,8750

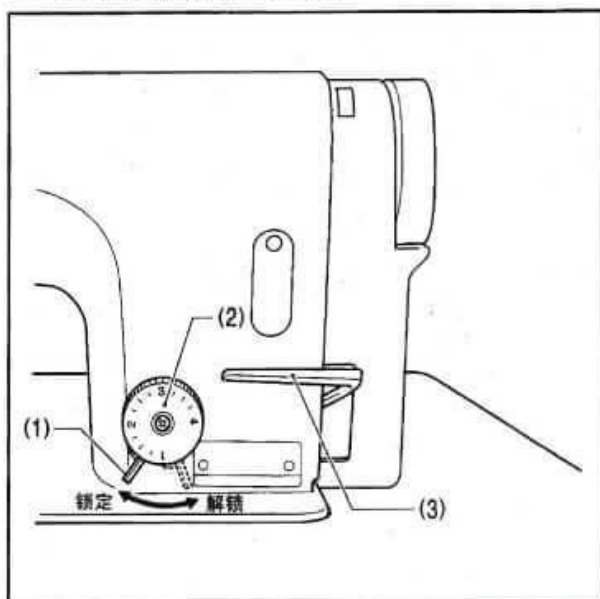


使线穿过锁爪(3)的内侧。



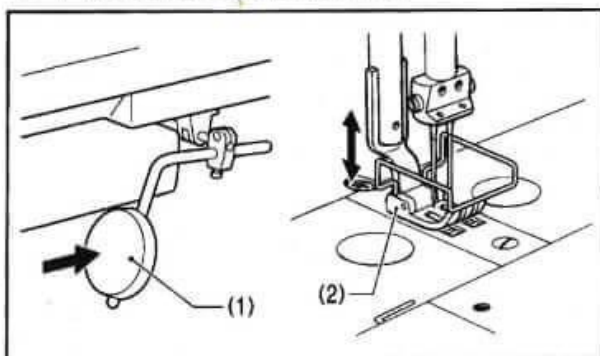


5-6. 针距的调节方法



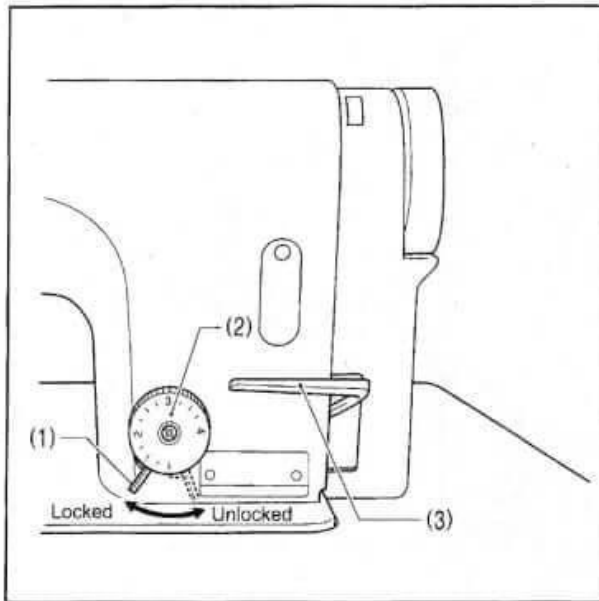
1. 向右转动锁住旋钮扳手(1)直至听到“卡搭”一声，以解除锁定。
 2. 顺时针或逆时针转动针距旋钮(2)，使所需针距处于旋钮最上端的位置。
 - 数字越大，针距越长。
 - (旋钮上的数字用于参考值。实际的针距视缝纫面料的种类和厚度而定。在观察缝纫好的针距的同时进行调节。)
 - 按设定值从大到小的方向转动针距旋钮(2)时，如果将倒缝扳手(1)推至中央位置，会使旋钮转动更加容易。
 3. 将锁住旋钮扳手(1)向左转到底予以锁定。
- * 确认针距旋钮(2)不能转动。

5-7. 膝控碰块的使用方法



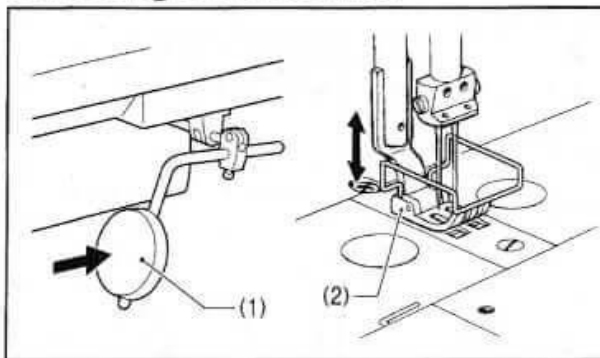
按动膝控碰块(1)可抬高压脚(2)。

5-6. Adjusting the stitch length



1. Unlock the stitch length dial (2) by turning the dial lock lever (1) to the right until a click is heard.
 2. Turn the stitch length dial (2) clockwise or counterclockwise so that the desired stitch length is at the uppermost position on the dial.
 - The larger the number, the longer the stitch length will be. (The numbers on the dial are for use as a guide. The length of the finished stitches may vary depending on the type and thickness of material being sewn. Adjust while looking at the finished stitches.)
 - When turning the stitch length dial (2) from a larger setting to a smaller setting, it will be easier to turn the dial if the reverse lever (3) is pushed to the halfwaydown position.
 3. Turn the dial lock lever (1) firmly to the left to lock the stitch length dial (2).
- * Check that the stitch length dial (2) does not rotate.

5-7. Using the knee lifter



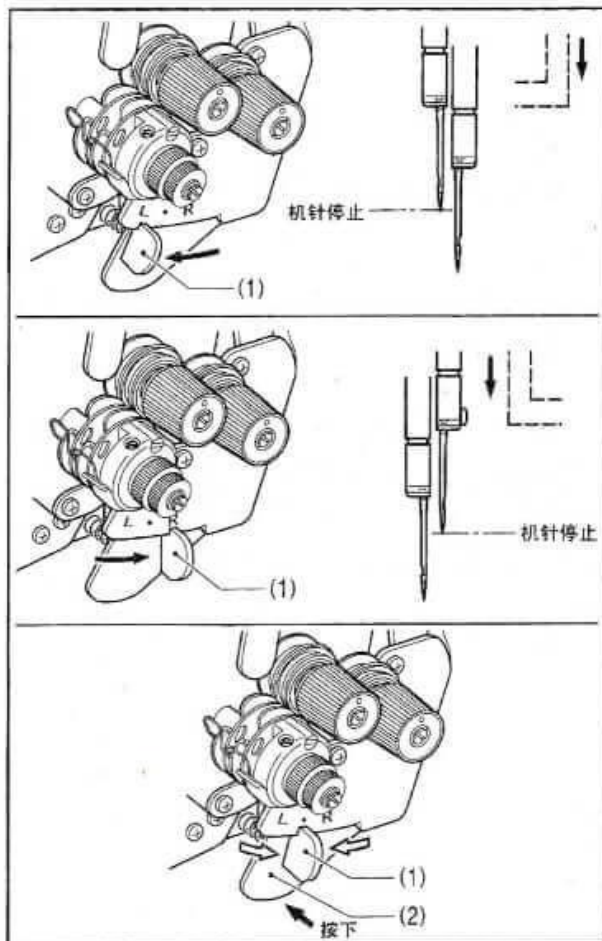
The presser foot (2) can be raised by pressing the knee lifter plate (1).

5-8. 角形缝制方法 (8450,8750)

注意:

要将本缝纫机作为单针缝纫机使用时, 请把不使用一侧的机针拆掉后再进行缝纫。请不要使用下述的针杆停止方法。否则可能会导致缝纫机损坏。

5-8-1. 针杆(左、右)的停止方法



- 请在机针扎在布上的位置停止后再操作定位杆。
- 当一侧的机针已停止时, 请将缝纫速度控制在 1000rpm 以下。

〈左侧针杆的停止操作〉

将定位杆(1)置于 L 位置。

〈右侧针杆的停止操作〉

将定位杆(1)置于 R 位置。

〈要恢复双针缝纫时〉

将压杆(2)按下。

定位杆(1)将自动返回到原来的位置。

5-8-2. 针数速查表



缝制角度 \ 针数	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°
2					4.6	3.8	3.2	2.7	2.2	1.8	1.5	1.1
3			4.6	3.5	3.0	2.5	2.1	1.8	1.5	1.2		
4		4.4	3.4	2.8	2.3	1.9	1.6	1.3				
5	4.8	3.5	2.7	2.2	1.8	1.5	1.3					
6	4.0	2.9	2.3	1.9	1.5	1.3						
7	3.7	2.5	2.0	1.6								
8	3.0	2.2	1.7									

〈针宽 1/4 的情况〉

为了缝制出美丽的角形, 请根据上表决定针迹长度。

此外, 通过决定缝制角度和针迹长度, 就可知道外侧 1 根针缝制的针数。

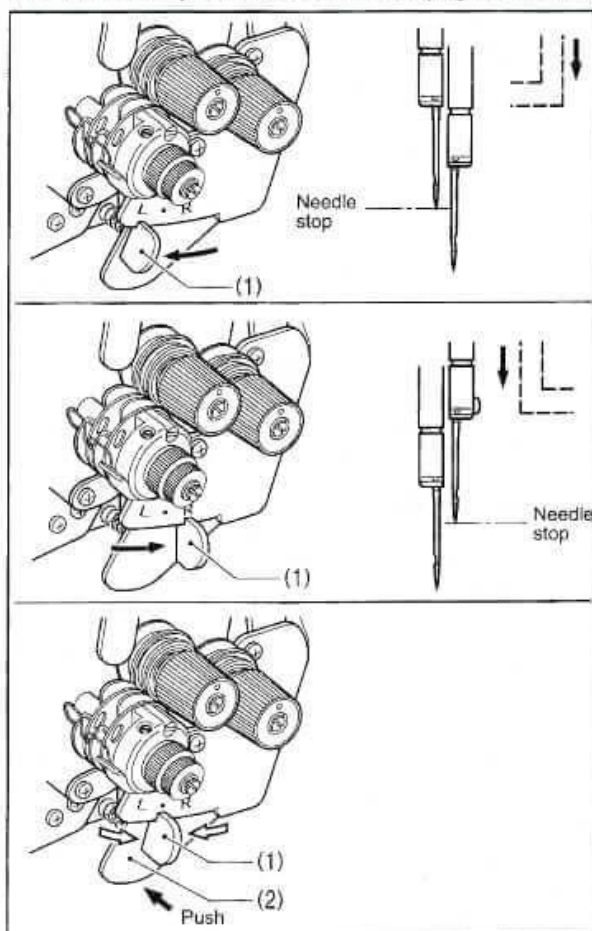
〔例〕如果缝制角度为 40°, 针迹长度为 2.9mm, 那么针数就是 6 针。

5-8. Corner sewing method (8450,8750)

NOTE:

If using this machine in place of a single-needle machine, remove the needle which is not being used. In such cases, do not use the procedures given below to stop the unused needle bar from moving, otherwise damage to the machine may result.

5-8-1. To stop the needle bars (right and left)



- Operate the stop lever after the needle has penetrated the material and has stopped moving.
- Do not sew at speeds of over 1,000 rpm while one of the needle bars has been stopped.

<To stop operation of the left needle bar>

Move the stop lever (1) to the "L" position.

<To stop operation of the right needle bar>

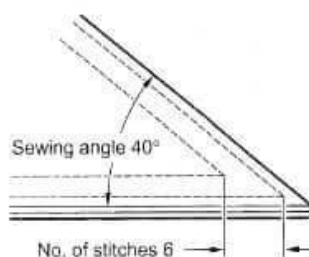
Move the stop lever (1) to the "R" position.

<To resume twin-needle sewing>

Press the push lever (2).

The stop lever (1) will then return to its original position automatically.

5-8-2. Number of stitches: quick-reference guide



Sewing angle / No. of Stitches	30°	40°	50°	60°	70°	80°	90°	100°	110°	120°	130°	140°
2					4.6	3.8	3.2	2.7	2.2	1.8	1.5	1.1
3			4.6	3.5	3.0	2.5	2.1	1.8	1.5	1.2		
4		4.4	3.4	2.8	2.3	1.9	1.6	1.3				
5	4.8	3.5	2.7	2.2	1.8	1.5	1.3					
6	4.0	2.9	2.3	1.9	1.5	1.3						
7	3.7	2.5	2.0	1.6								
8	3.0	2.2	1.7									

<For 1/4" needle width>

Determine the stitch length from the chart above to make beautiful corner stitching.

The number of stitches of the outer needle varies according to the combination of sewing angle and stitch length.

[Example]

For a sewing angle of 40° and a stitch length of 2.9 mm, the number of stitches becomes 6.

6. 缝纫

⚠ 注意



为了安全起见，在使用本缝纫机之前，请安装保护装置。
如果未安装这些安全装置就使用缝纫机，会造成人身伤害及缝纫机损坏。



发生下列情况时，请切断电源。但在切断电源后，马达在稍后的一段时间内因惯性仍会继续转动，请在马达完全停止后，再进行作业。
否则误按动起动开关，缝纫机动作会导致受伤。

- 机针穿线时
- 更换机针或梭芯时
- 缝纫机不使用，或人离开缝纫机时。

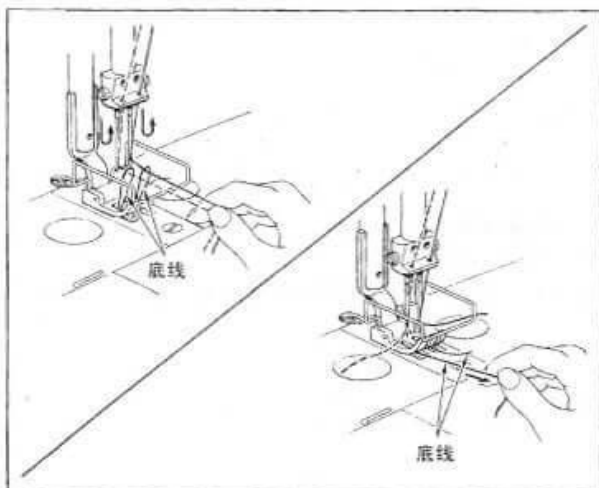


缝纫过程中，不要触摸任何运动部件或将物件靠在运动部件上，因为这会导致人员受伤或缝纫机损坏。



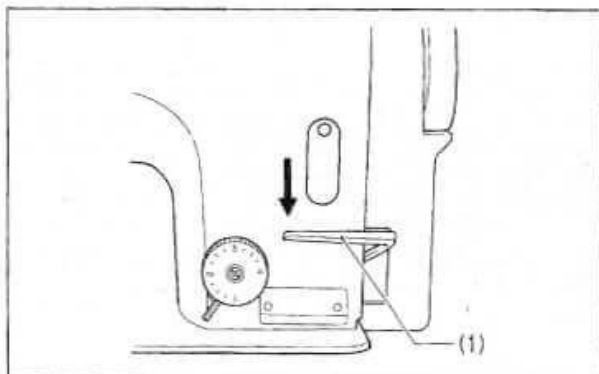
缝纫机头倒下或竖起时，请用双手进行操作。
单手操作时因缝纫机的重量万一滑落易导致受伤。

6-1. 缝纫



1. 一边用手指握住面线〔2 根〕一边用手把缝纫手轮朝自己身边方向转动，以将底线拉到送布齿的上面。
2. 将底线朝自己身边方向拉，确认底线应能平稳地伸出。
3. 打开电源开关。
4. 踏下脚踏板开始缝纫。

6-2. 倒缝加固的方法



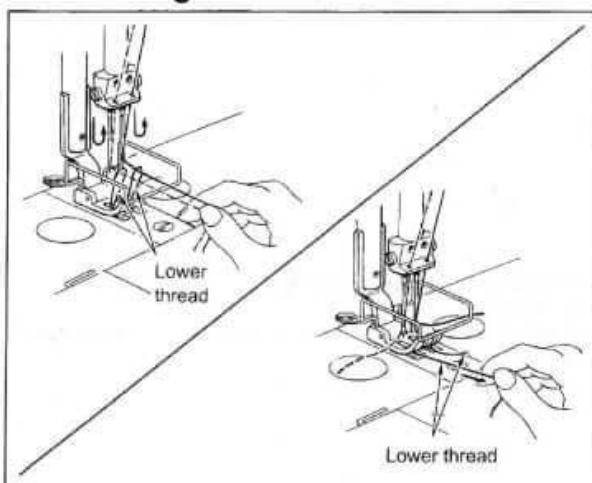
在缝纫中，如果按下倒缝扳手(1)布料就被倒送，一放开扳手又恢复正送布状态。

6. SEWING

⚠ CAUTION

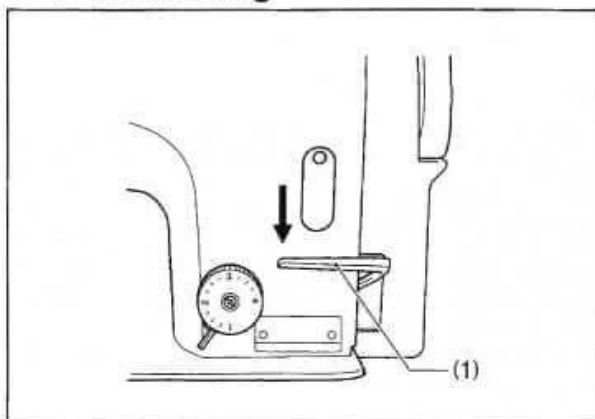
- ⚠ Attach all safety devices before using the sewing machine. If the machine is used without these devices attached, injury may result.
- ⚠ Turn off the power switch at the following times. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work.
The machine may operate if the treadle is depressed by mistake, which could result in injury.
 - When threading the needle
 - When replacing the bobbin and needle
 - When not using the machine and when leaving the machine unattended
- ⚠ Do not touch any of the moving parts or press any objects against the machine while sewing, as this may result in personal injury or damage to the machine.
- ⚠ Use both hands to hold the machine head when tilting it back or returning it to its original position. If only one hand is used, the weight of the machine head may cause your hand to slip, and your hand may get caught.

6-1. Sewing



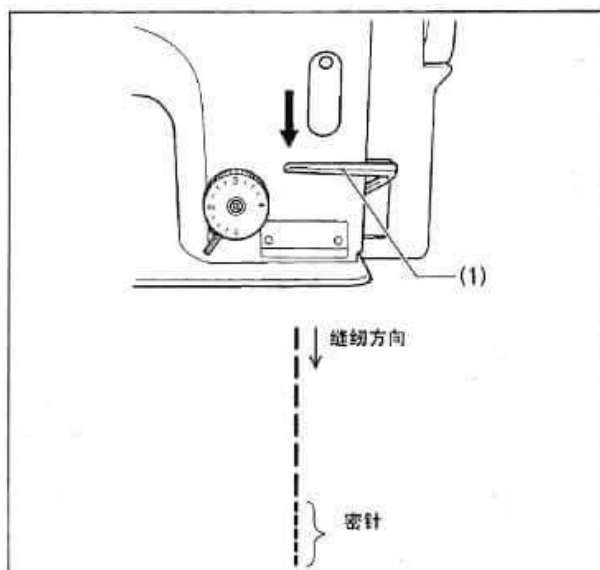
1. While holding the two upper threads with your fingers, turn the machine pulley by hand toward you until the lower threads come out onto the feed dog.
2. Pull the lower threads toward you and check that they pull out smoothly.
3. Turn on the power switch.
4. Depress the treadle to start sewing.

6-2. Backtacking

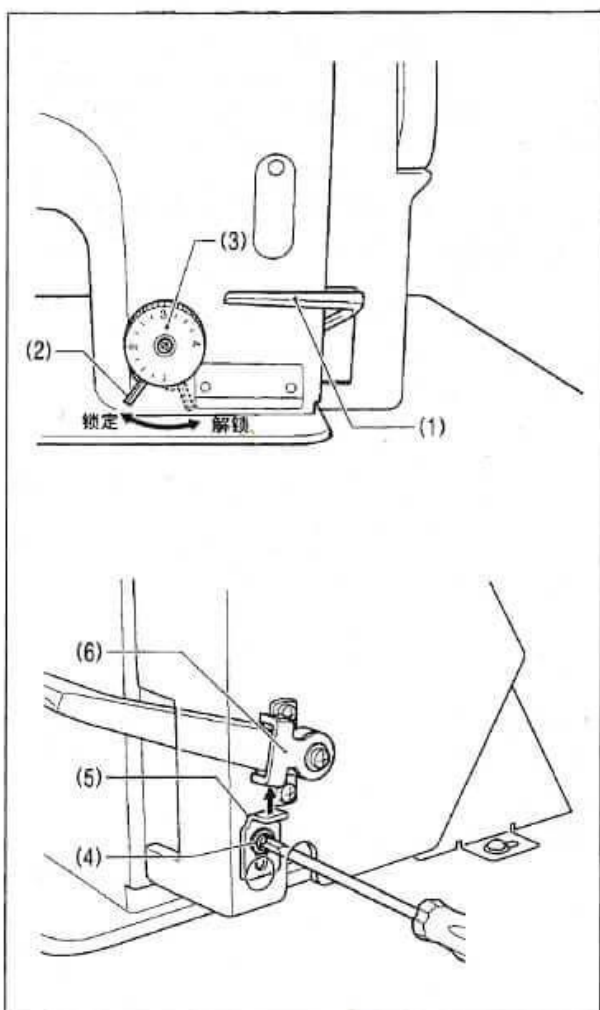


When the reverse lever (1) is pressed during sewing, the feed direction will be reversed. When it is released, the feed direction will return to normal.

6-3. 缝纫密针的方法



- 在缝纫中，如果按下倒缝扳手（1）就能以密针的针迹长度进行缝纫（前进方向）。
- 在缝纫前，如下所述为密针设定针迹长度。



<设定>

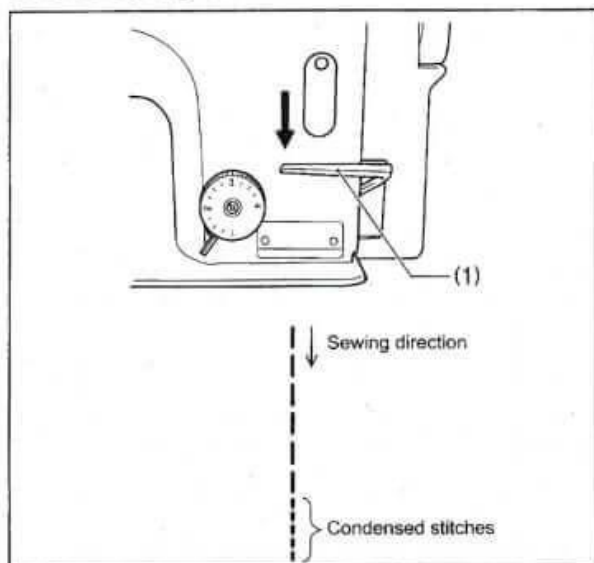
1. 向右转动锁住旋钮扳手（2）以进行解锁。
2. 把针距旋钮（3）转到将用于密针的针迹长度。
3. 松开固定螺钉（4），抬起手轮制动器（5）直至碰到倒缝扳手板（6）为止。
4. 拧紧固定螺钉（4），并固定手轮制动器（5）。

<缝纫>

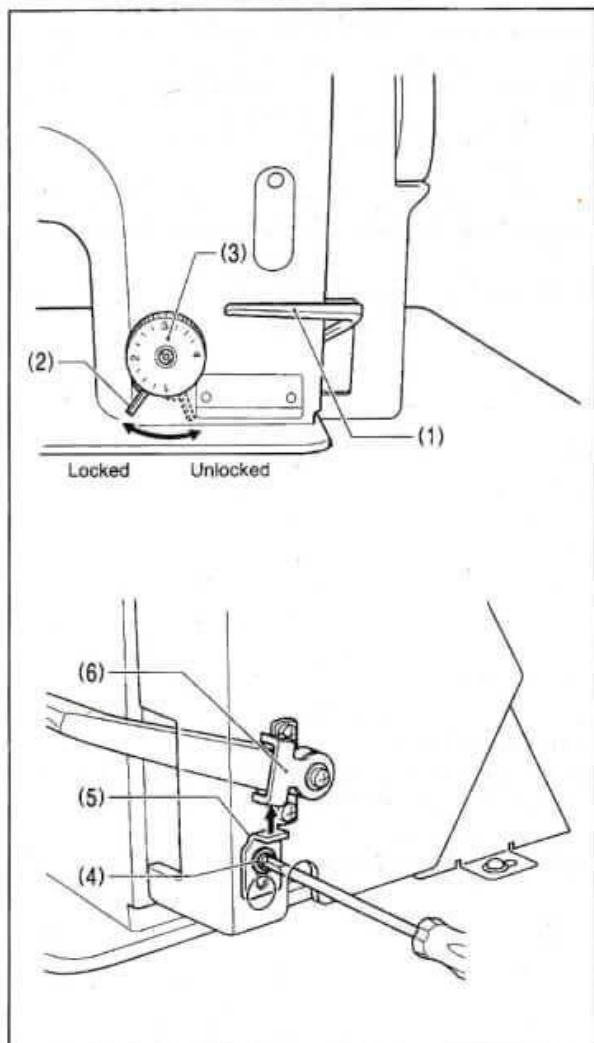
1. 把针距旋钮（3）恢复到正常缝纫的针迹长度。
2. 向左转动锁住旋钮扳手（2）予以锁定。
3. 开始缝纫。
4. 在要进行密针缝纫的开始位置，按下倒缝扳手（1）。（在按着期间，将进行密针缝纫。）

* 要停止密针缝纫，返回到倒缝功能时，请降下手轮制动器（5）直至碰不到倒缝扳手板（6）为止。

6-3. Sewing condensed stitches



- If you press the reverse lever (1) while sewing is in progress, you can sew stitches (forward direction) with small stitch lengths.
- Before carrying out sewing, set the stitch length for condensed stitches as follows.



<Setting>

1. Unlock the stitch length dial (3) by turning the dial lock lever (2) to the right.
2. Turn the stitch length dial (3) to the stitch length to be used for condensed stitches.
3. Loosen the screw (4) and lift up the stopper (5) until it touches the reverse stitching lever plate (6).
4. Tighten the screw (4) to secure the stopper (5).

<Sewing>

1. Return the stitch length dial (3) to the stitch length for normal sewing.
 2. Turn the dial lock lever (2) firmly to the left to lock the stitch length dial (3).
 3. Start sewing.
 4. At the position where you would like to start sewing condensed stitches, press the reverse lever (1). (Condensed stitches are sewn while the reverse lever (1) is being pressed.)
- * To stop sewing condensed stitches and return to using the backtack function, lower the stopper (5) so that it does not touch the reverse stitching lever plate (6).

7. 缝纫效果

7-1. 调节线张力

正确的针迹



面线张力过小或底线张力过大。

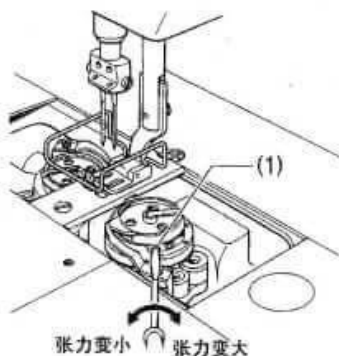
增大面线张力。
减小底线张力。



面线张力过大或底线张力过小。

减小面线张力。
增大底线张力。

<挂钩式>



<梭芯套式>



<底线张力>

注意



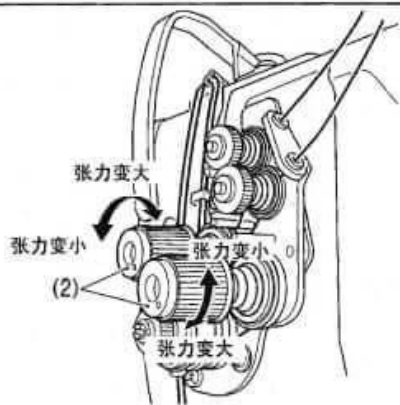
在进行底线的张力调整前先关闭电源开关。但在切断电源后, 马达在稍后的一段时间内因惯性仍会继续转动, 请在马达完全停止后, 再进行作业。如果误踩下踏板, 缝纫机动作会导致人员受伤。

转动底线张力螺钉(1)进行调节。

<面线张力>

在底线张力调节之后, 调节面线张力以使针脚均匀平整。

1. 降下压脚。
2. 转动夹线螺母(2)进行调节。



7. THREAD TENSION

7-1. Adjusting the thread tension

Good even stitches



Upper thread tension too weak or
lower thread tension too strong

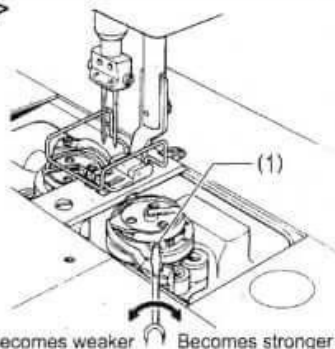
→ Increase the upper thread tension.
Decrease the lower thread tension.



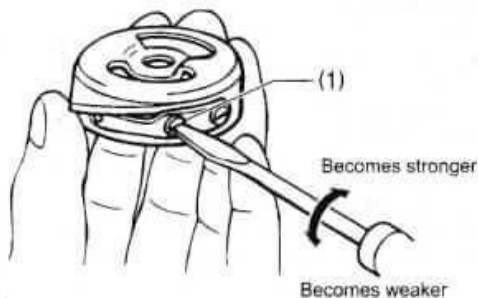
Upper thread tension too strong
or lower thread tension too weak

→ Decrease the upper thread tension.
Increase the lower thread tension.

<Latch type>



<Bobbin case type>



<Lower thread tension>

CAUTION



Turn off the power switch before adjusting the lower thread tension. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work.

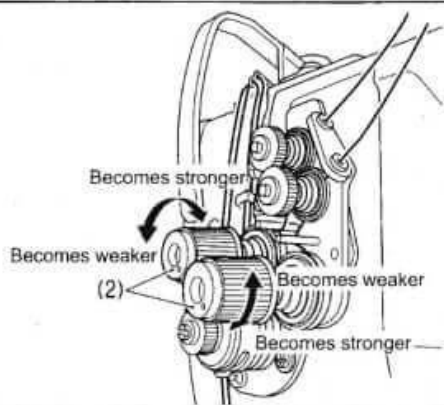
The machine may operate if the treadle is depressed by mistake, which could result in injury.

Turn the adjusting screw (1) to adjust.

<Upper thread tension>

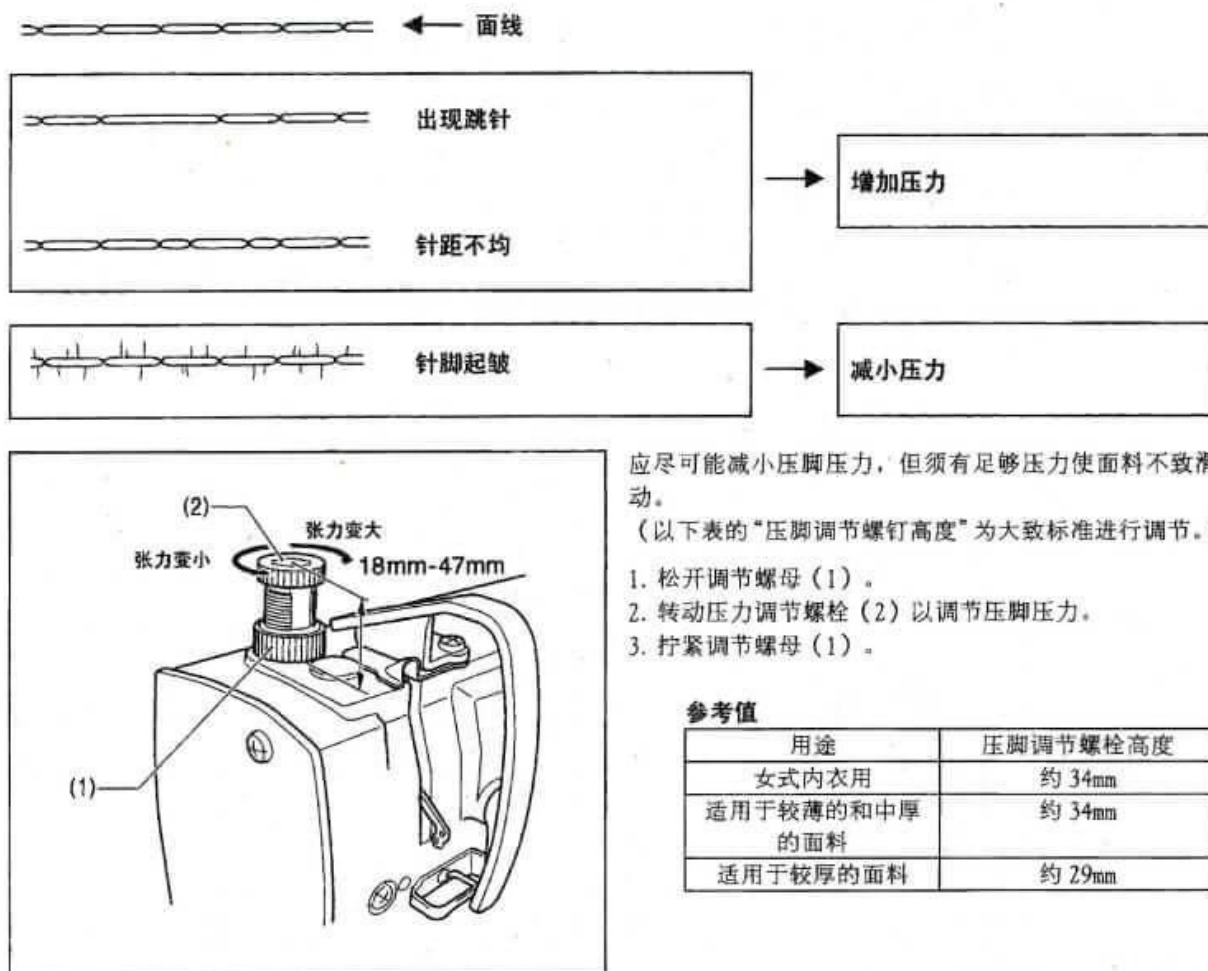
After the lower thread tension has been adjusted, adjust the upper thread tension so that a good, even stitch is obtained.

1. Lower the presser foot.
2. Adjust by turning the tension nut (2).



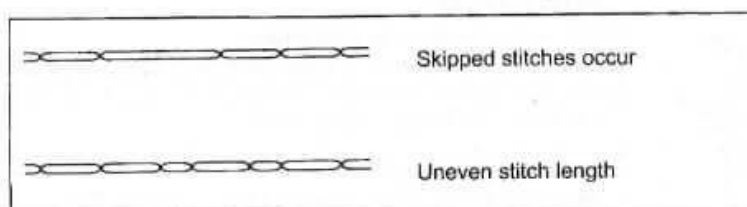
7-2. 调节压脚压力

正确的针迹



7-2. Adjusting the presser foot pressure

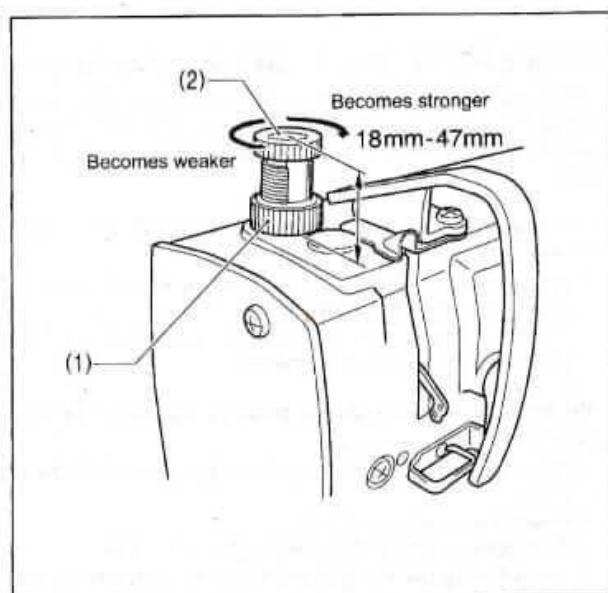
Correct stitches



Increase the pressure.



Decrease the pressure.



The presser foot pressure should be as weak as possible, but strong enough so that the material does not slip. (Refer to "Adjusting screw height" in the table below as a guide to adjustment.)

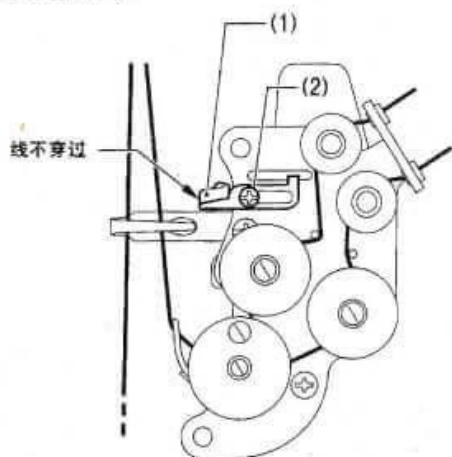
1. Loosen the adjusting nut (1).
2. Turn the presser adjusting screw (2) to adjust the presser foot pressure.
3. Tighten the adjusting nut (1).

Reference values

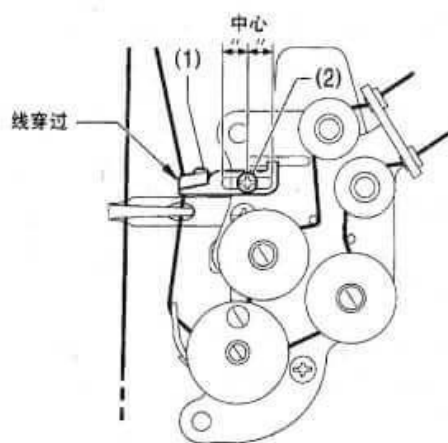
Use	Adjusting screw height
For foundation	Approx. 34mm
For light-weight and medium-weight materials	Approx. 34mm
For heavy-weight materials	Approx. 29mm

7-3. 挑线量的调节

〈女式内衣规格以外〉



〈女式内衣规格〉



采用向线量调整器(1)穿过线的方法来调节挑线量。

〈标准线量调整器(1)的使用方法〉

女式内衣规格以外

使线不穿过线量调整器(1)。松开固定螺钉(2)，将线量调整器(1)移向右侧。

女式内衣规格

使线穿过线量调整器(1)。

固定螺钉(2)被置于调整范围的中间状态时，就是线量调整器(1)的标准位置。

〈挑线量的调节〉

使线穿过线量调整器(1)进行调节，越将线量调整器(1)向右移则挑线量越少。

使线不穿过线量调整器(1)为较好的情况

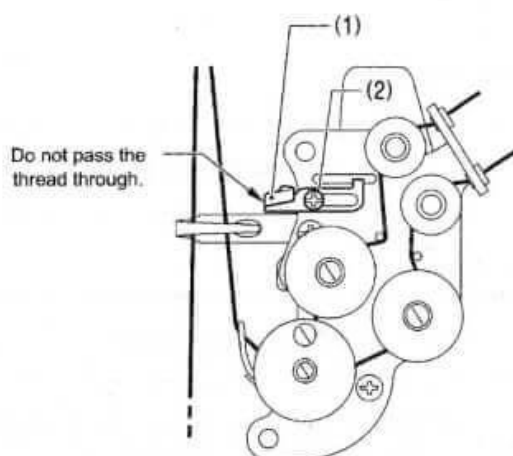
- 用女式内衣规格的缝纫机缝制厚布料时
- 要加长针迹等而挑线量不够时

使线穿过线量调整器(1)为较好的情况

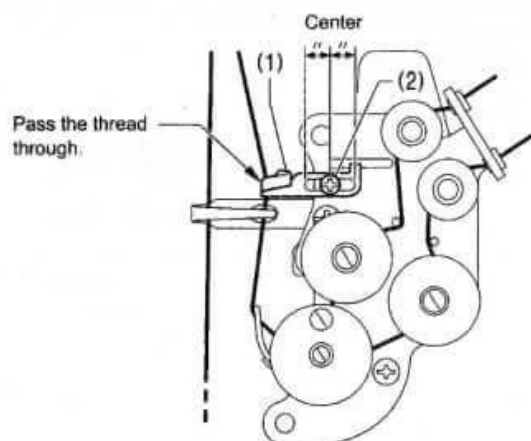
- 使用帝特纶等易滑的机线时
- 缝制薄的布料时
- 以 2mm 以下的针迹长度进行缝纫时
- 在以上述 3 种条件进行缝纫的情况下，为了防止发生跳线、毛巾针迹等机线松紧不良和断线时

7-3. Adjusting the thread take-up amount

<For non-foundation specifications>



<For foundation specifications>



The thread take-up amount is adjusted by how the thread is passed through the thread amount adjuster (1).

<Using the standard thread amount adjuster (1)>

For non-foundation specifications

Do not pass the thread through the thread amount adjuster (1). Loosen the screw (2) and slide the thread amount adjuster (1) to the right-side position.

For foundation specifications

Pass the thread through the thread amount adjuster (1). The standard position of the thread amount adjuster (1) is when the screw (2) is in the center of the adjustment range.

<Adjusting the thread take-up amount>

When the thread has been passed through the thread amount adjuster (1), the thread take-up amount becomes less when the thread amount adjuster (1) is moved to the right.

It is better not to pass the thread through the thread amount adjuster (1):

- When sewing heavy materials using a sewing machine with foundation specifications
- When the thread take-up amount is not enough, such as when the stitch length is increased

It is better to pass the thread through the thread amount adjuster (1):

- When sewing with slippery threads such as synthetic yarns
- When sewing light materials
- When sewing with a stitch length of 2 mm or less
- When sewing under any of the above three conditions and you would like to prevent skipped stitches, thread tightening problems such as looping, or thread breakages

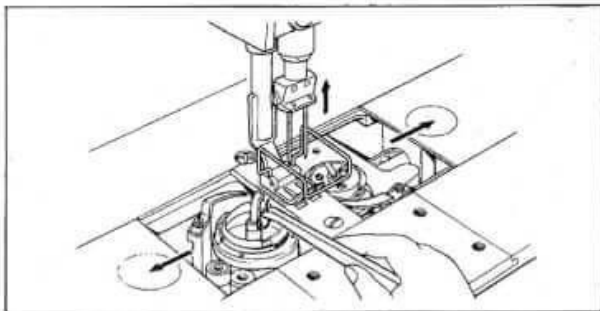
8. 保养

⚠ 注意

- ⚠ 在开始清洁作业前，请切断电源。但在切断电源后，马达在稍后的一段时间内因惯性仍会继续转动，请在马达完全停止后，再进行作业。
当误按动起动开关时，缝纫机动作会导致人员受伤。
- ⊘ 使用润滑油和黄油时，务必戴好保护眼镜和保护手套等，以防润滑油落入眼中或沾在皮肤上，这是引起发炎的原因。
另外，润滑油或黄油不能饮用，否则会引起呕吐和腹泻。
将油放在小孩拿不到的地方。
- ⚠ 缝纫机头倒下或竖起时，请用双手进行操作。
单手操作时因缝纫机的重量万一滑落易导致受伤。

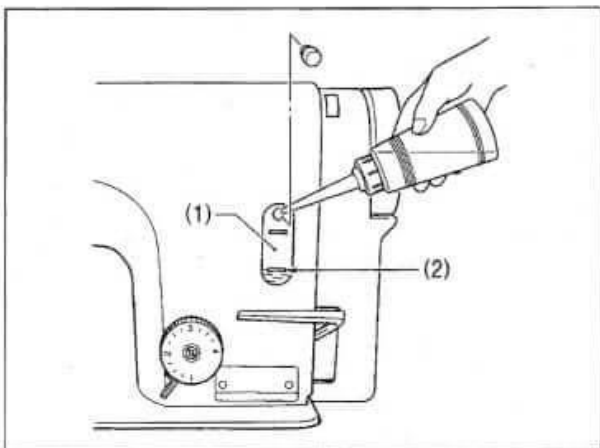
8-1. 日常清洁程序

为了保持缝纫机的机能，而且能长久的使用，请每天保养。另外，缝纫机如果长时间未使用，请在进行了如下的保养后再使用。



<保养>

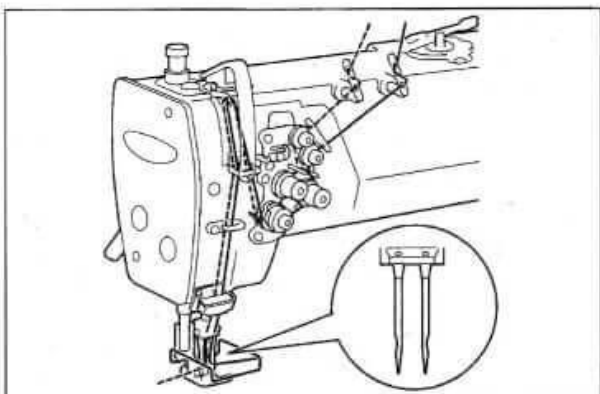
1. 转动缝纫机的皮带轮，将机针置于最高位置。
2. 将滑板左右分开。
3. 取出梭芯。
4. 清除旋梭内的线头等。
5. 安装梭芯（和梭芯套）。



<给油箱添加机油>

只使用本公司规定的润滑油。

1. 当润滑油的液位下降到油量计视窗(1)的下基线(2)以下时，应添加润滑油（参照第11页）。



<检查>

1. 如果机针弯曲或针尖断裂，应予以更换。
2. 检查上线是否穿引正确。（参阅第19页。）
3. 进行试缝。

8. CLEANING



CAUTION



Turn off the power switch before carrying out cleaning. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work.
The machine may operate if the treadle is depressed by mistake, which could result in injury.



Be sure to wear protective goggles and gloves when handling the lubricating oil and grease, so that they do not get into your eyes or onto your skin, otherwise inflammation can result.
Furthermore, do not drink the oil or eat the grease under any circumstances, as they can cause vomiting and diarrhea.
Keep the oil out of the reach of children.

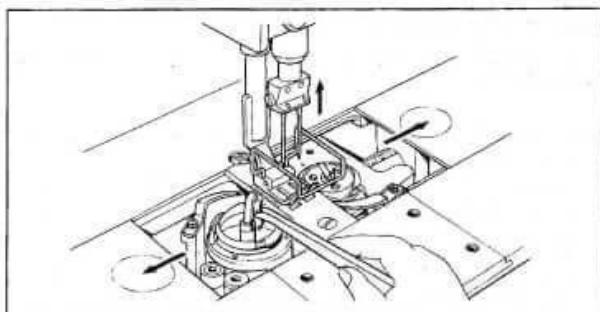


Use both hands to hold the machine head when tilting it back or returning it to its original position. If only one hand is used, the weight of the machine head may cause your hand to slip, and your hand may get caught.

8-1. Daily cleaning procedures

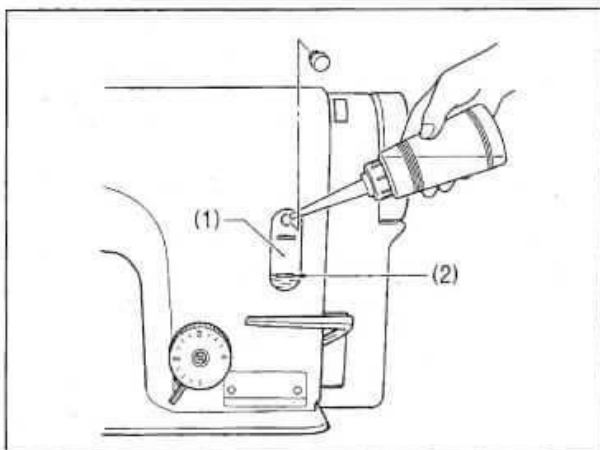
The following cleaning operations should be carried out each day in order to maintain the performance of this machine and to ensure a long service life.

Furthermore, if the sewing machine has not been used for a long period of time, carry out the following cleaning procedures before using it again.



<Cleaning>

1. Turn the machine pulley to move the needle to the needle up stop position.
2. Open the slide plates at the left and right.
3. Remove the bobbin.
4. Clean the thread scraps from the rotary hook.
5. Install the bobbin (and the bobbin case).

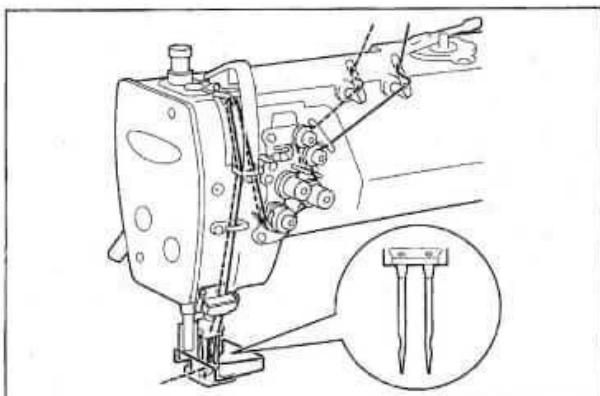


<Filling the oil tank>

Use only the lubricating oil (Nisseki Mitsubishi Sewing Lube 10N; VG10) specified by Brother.

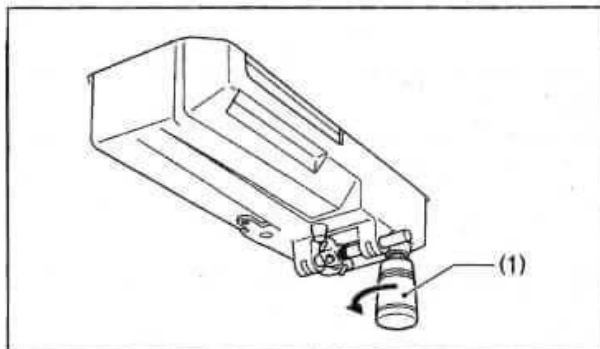
* If this type of lubricating oil is difficult to obtain, the recommended oil to use is <Exxon Mobil Essotex SM10; VG10>.

1. If the lubricating oil level drops below the bottom reference line (2) of the oil gauge window (1), be sure to add more oil. (Refer to p.11.)



<Checking>

1. Replace the needle if it is bent or if the tip is broken.
2. Check that the upper threads have been threaded correctly. (Refer to page 19.)
3. Carry out a test sewing.

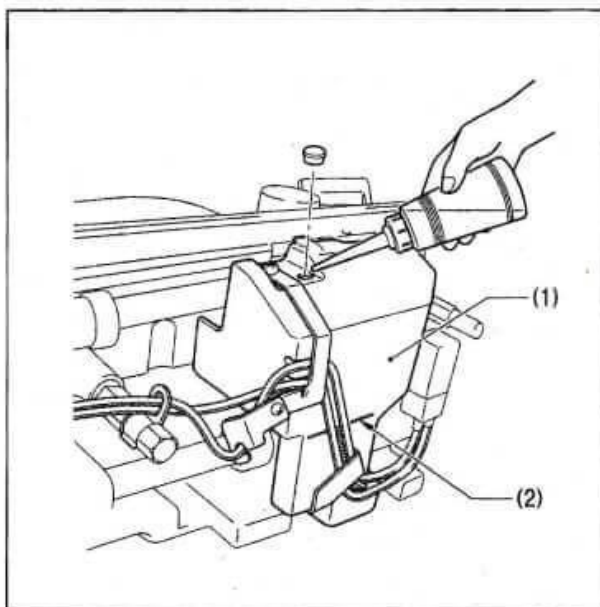


<废油>

1. 当注油器 (1) 内积满了润滑油时, 请拧松注油器 (1) 将它拆下, 倒掉润滑油。
2. 将注油器 (1) 拧入油盘。

* 请按照法律规定, 正确地处理废油。

8-2. 给油盖添加机油 (每隔 6 个月)



<微量加油型>

大致每隔 6 个月一次, 给油盖 (1) 补充润滑油。

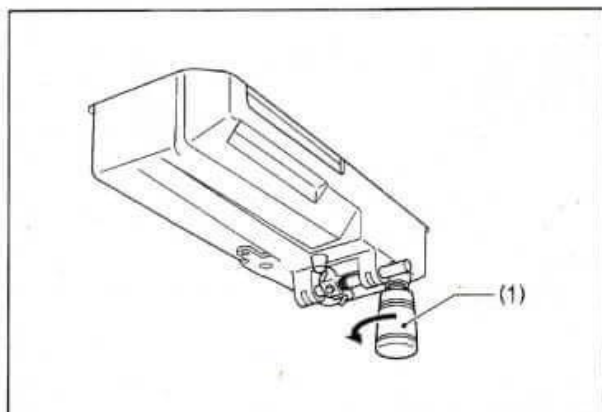
<针杆无油型>

基本上在补充润滑脂的同时, 也应给油盖 (1) 补充润滑油。

只使用本公司规定的润滑油 (日石三菱缝纫机油 10N:VG10)。

1. 将缝纫机头部倒下。
2. 给油盖 (1) 添加润滑油, 直至液位达到基准线 (2) 位置。(参照第 11 页)
3. 将缝纫机头部返回原位。

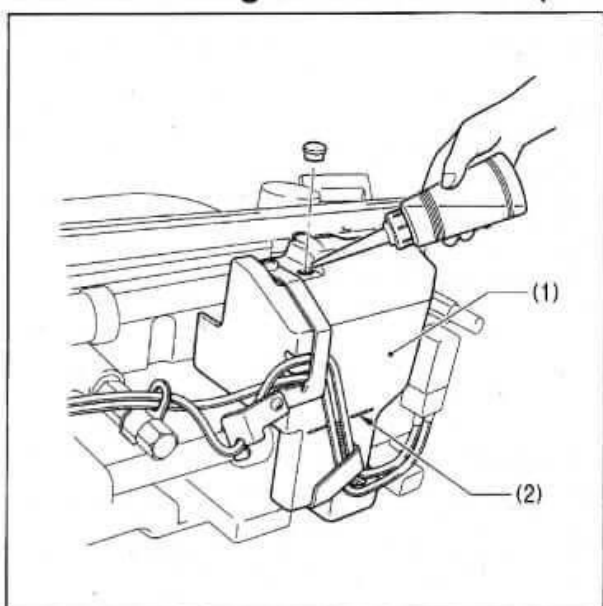
8. CLEANING



<Draining lubricating oil>

1. If the oiler (1) has filled with oil, unscrew the oiler (1) and dispose of the oil inside it.
2. Screw the oiler (1) back into the oil pan.

8-2. Lubricating via the oil cover (every 6 months)



<Minimum lubrication type>

Pour lubricating oil into the oil cover (1) about once every six months.

<Semi dry type>

Pour lubricating oil into the oil cover (1) about as often as grease is applied.

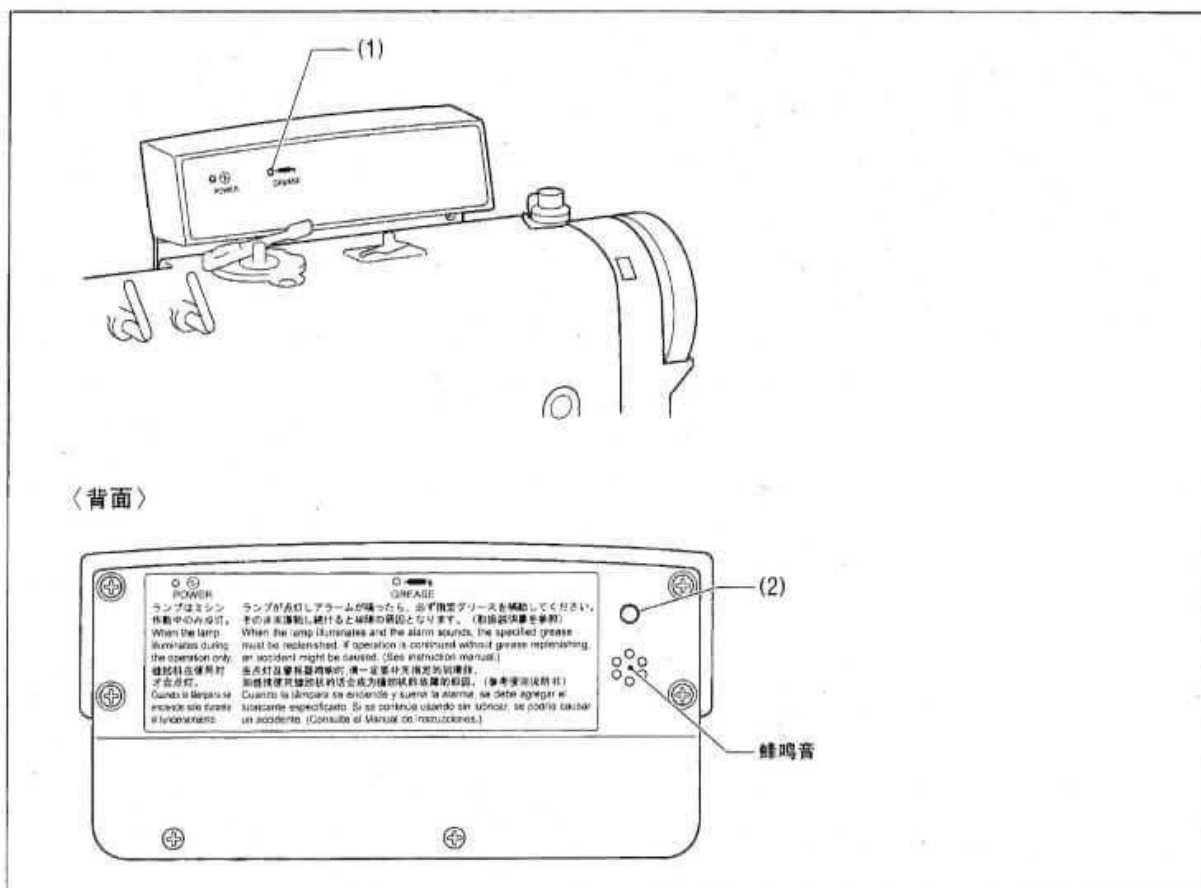
Use only the lubricating oil (Nisseki Mitsubishi Sewing Lube 10N; VG10) specified by Brother.

* If this type of lubricating oil is difficult to obtain, the recommended oil to use is <Exxon Mobil EssoTex SM10; VG10>.

1. Tilt back the machine head.
2. Pour lubricating oil into the oil cover (1) until the oil level reaches the reference line (2). (Refer to p.11.)
3. Return the machine head to its normal position.

8-3. 添加润滑脂—当 GREASE 指示灯点亮时（针杆无油型）

每次踩下踏板时，如果 GREASE 指示灯（1）点亮，而且蜂鸣器鸣响，则表示是应该添加润滑脂的时间了。请参照下一页所述来添加润滑脂。



<暂时不添加润滑脂继续缝纫>

1. 按复位开关（2）约 1 秒钟。

（即使踩下踏板蜂鸣器也不鸣响，只是 GREASE 指示灯（1）点亮。）

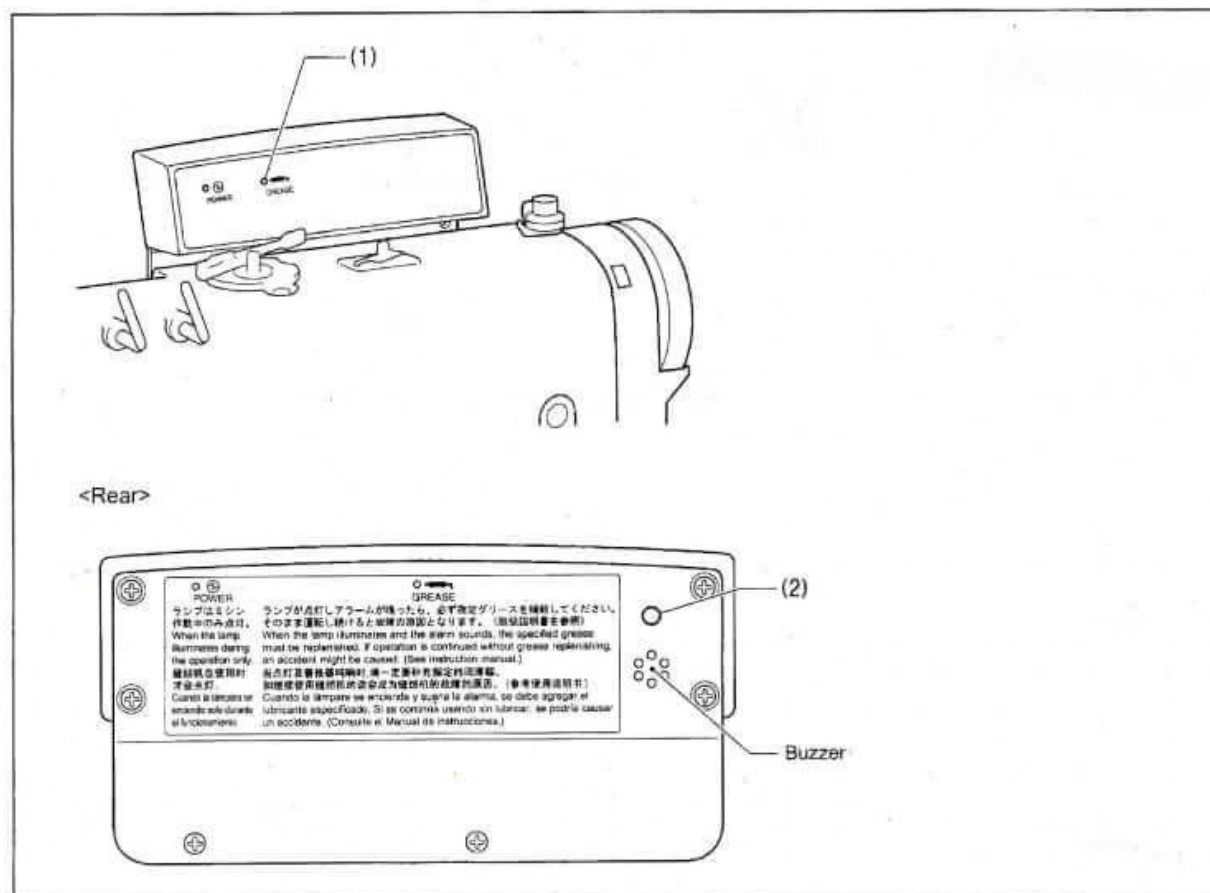
* 因为复位开关（2）的端头部分相当尖锐，所以要用力将它推入直至碰到深处。

2. 在此状态下虽然仍可以继续缝纫，但如果缝纫机累计工作时间再增加 10 小时，蜂鸣器就会再次鸣响。此时，请参照下一页所述来添加润滑脂，并进行复位操作。

* 如果不添加润滑脂就进行复位操作，并继续操作缝纫机，则可能会引起缝纫机故障。

8-3. Applying grease - When the GREASE indicator illuminates (Semi dry type)

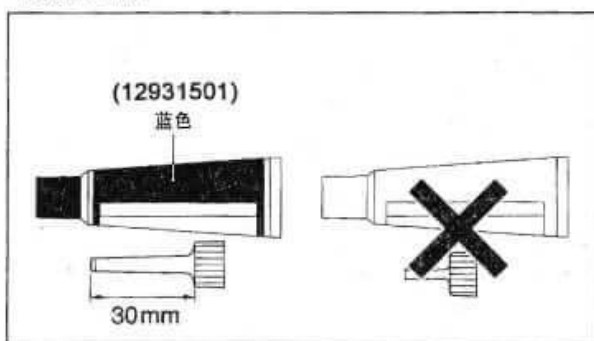
If the GREASE indicator (1) illuminates and the buzzer sounds each time the treadle is depressed, it means that it is time to apply grease to the sewing machine. Apply grease while referring to the following page.



<To continue sewing temporarily without applying grease>

1. Press the RESET switch (2) for approximately one second.
(The buzzer will stop sounding but the GREASE indicator (1) will remain illuminated even when the treadle is depressed.)
* Use an object with a sharp point to firmly push in the RESET switch (2) as far as it will go.
 2. Sewing can continue in this condition, but if the cumulative sewing machine operating time reaches a further 10 hours, the buzzer will start sounding again. If this happens, apply grease and then reset the alarm display by referring to the procedure on the following page.
- * If you continue to use the sewing machine after carrying out the reset procedure but without applying grease, problems with the sewing machine may result.

<添加润滑脂>

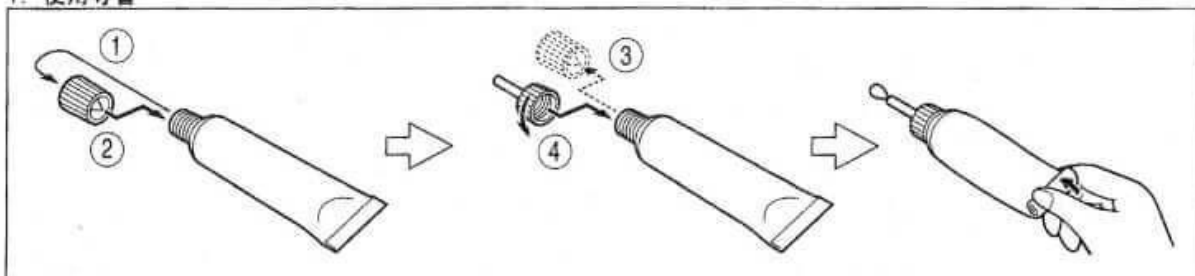


注意:

- 只使用本公司规定的润滑脂(12931501)蓝色软管。
- 对于这种机型，请不要使用(12931501)白色软管。
- 除了明确标示“请使用(12931501)”的机型外，请不要使用(12931501)蓝色软管。

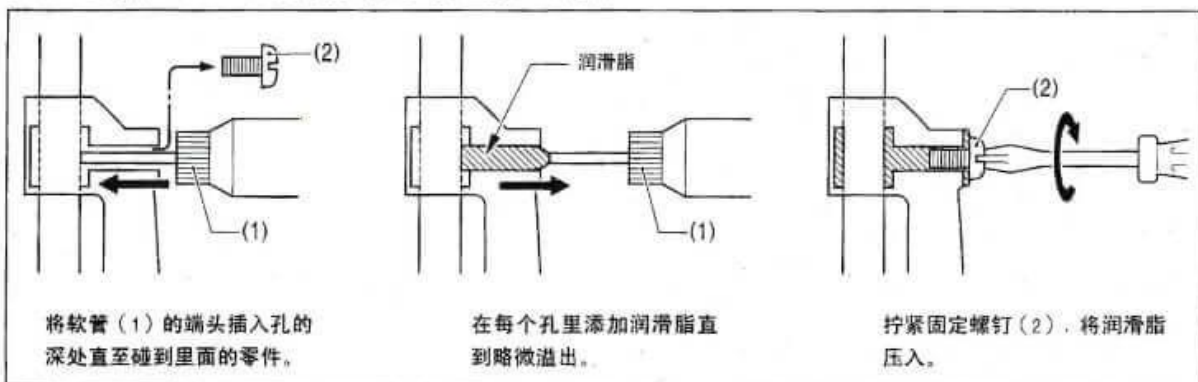
润滑脂请购买“润滑脂组件(12931501)”。

1. 使用导管

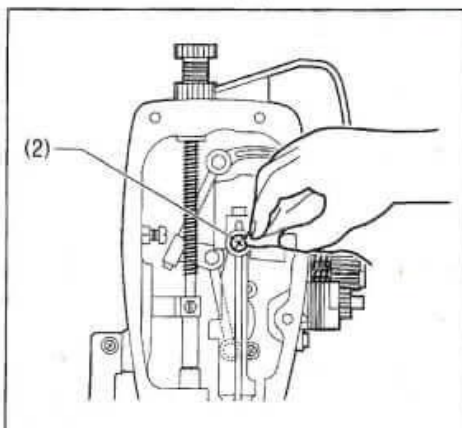


2. 添加润滑脂

按照下述方法，给下一页上有箭头标记的部位添加润滑脂。



1. 电源开关拨到 OFF (关闭)。
2. 拧下固定螺钉(2)。(需要补充润滑脂的部位，请参照下一页。)
3. 在每个孔里添加润滑脂直到润滑脂略微溢出。
4. 通过拧紧固定螺钉(2)，以将润滑脂压入。

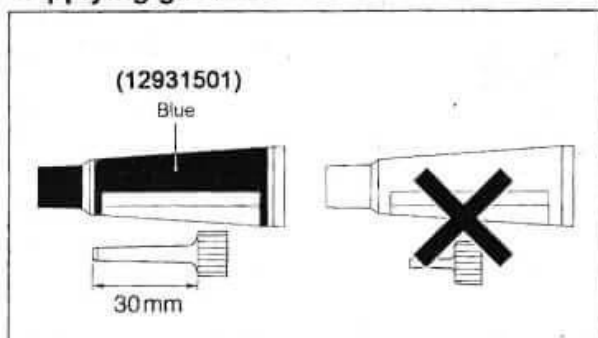


5. 用布擦去溢出在固定螺钉(2)周围的润滑脂
6. 以同样的方法，给下一页上所示的各个部位添加润滑脂。
7. 执行下面的复位操作。

【注意】

- 润滑脂开封后请从软管取下喷嘴，盖紧盖子并保管在阴暗处。
 - 请尽早将管内的润滑脂全部用完。
 - 要再次使用时，请先除去残留在喷嘴内旧的润滑脂，然后再使用。
- (开封后的润滑脂可能会老化变质，从而不能充分发挥其性能，因此，请注意要保管好。)

<Applying grease>

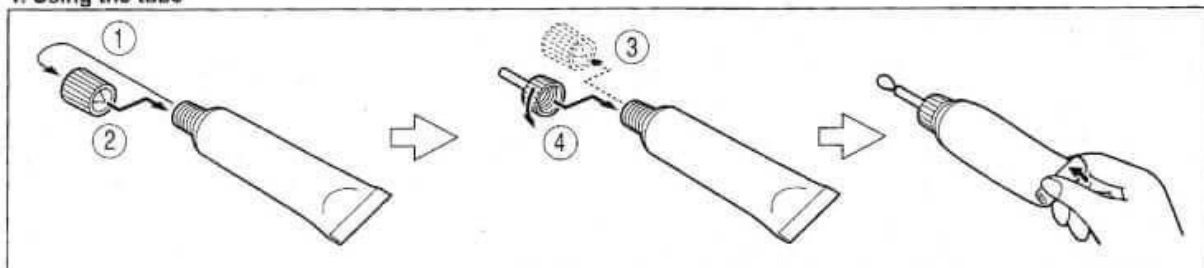


NOTE:

- Use only the grease (12931501) in the **blue tube** specified by Brother.
- Do not use the grease in the **white tube** with this sewing machine.
- Do not use the BZL-301 12931501 grease in the blue tube for any models except for those which are indicated with "Use only the grease 12931501 specified by Brother".

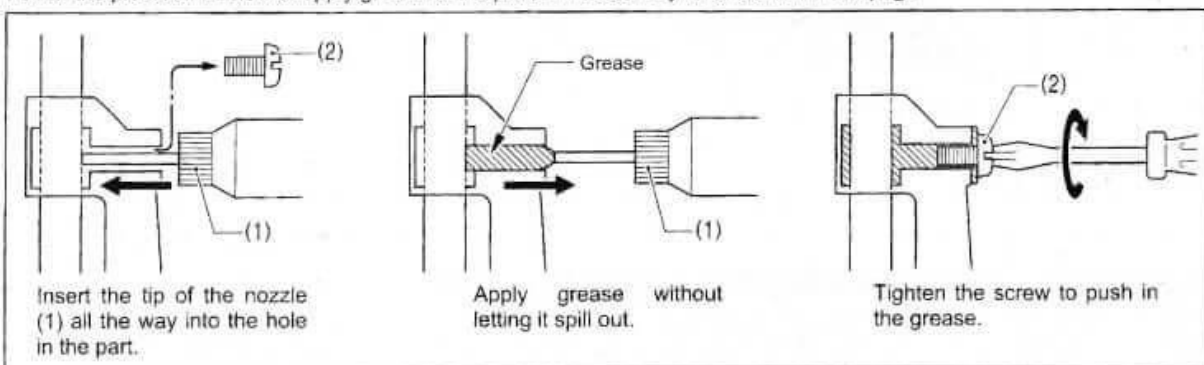
Purchase the grease unit 12931501 to use for applying grease.

1. Using the tube

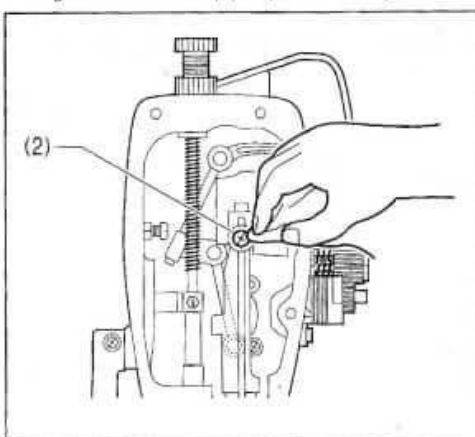


2. Applying grease

Follow the procedure below to apply grease to the places indicated by arrows on the next page.



1. Turn the power switch to "OFF".
2. Remove the screw (2). (Refer to the next page for greasing locations.)
3. Apply grease to each of the holes until the grease overflows slightly.
4. Tighten the screw (2) to push in the grease.

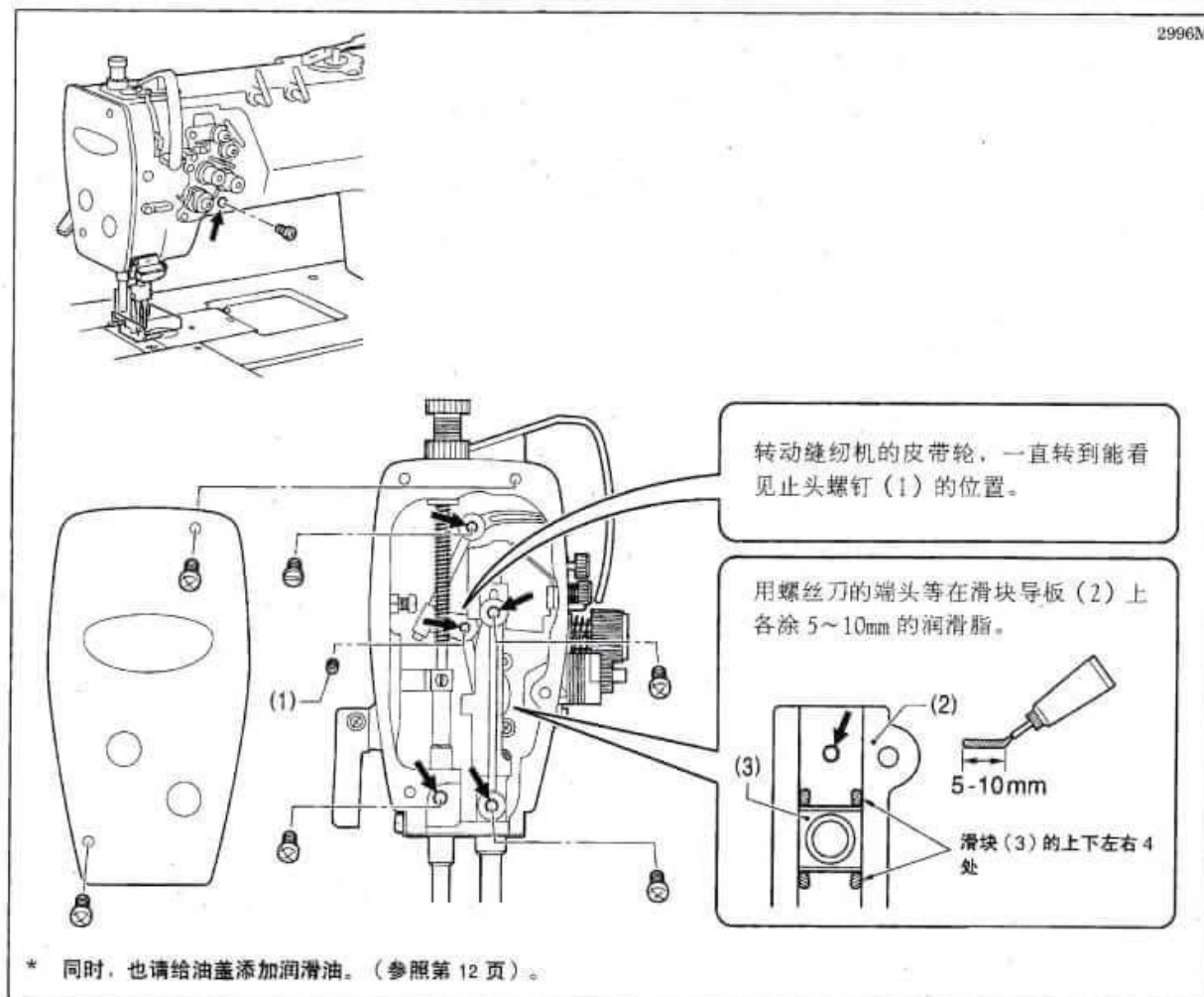


5. Use a cloth to wipe away any excess grease from around the screw (2).
6. Apply grease to all locations shown on the next page in the same way.
7. Carry out the reset procedure given on the next page.

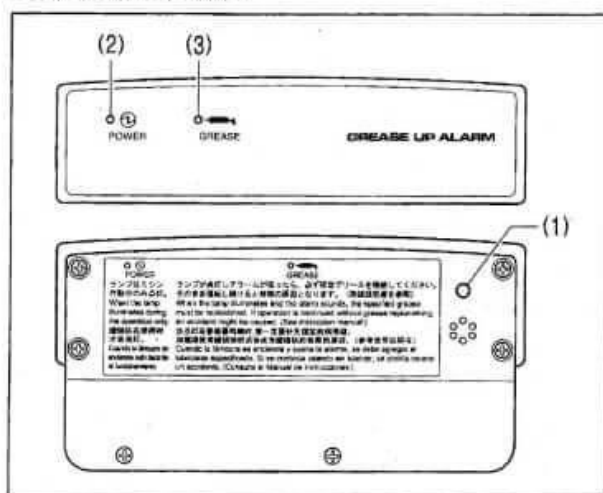
NOTE:

- Once the grease tube has been opened, remove the nozzle from the tube, attach the cap securely and store the tube in a cool dark place.
- The grease should be used as quickly as possible.
- When using the grease again, remove any old grease from inside the nozzle first.

(Store the tube away carefully once the tube has been opened, otherwise the grease remaining inside the tube may deteriorate, and this may affect its lubricating performance.)



<复位累计工作时间>



在确实添加了润滑脂以后，请按下下述步骤将添加润滑脂前的累计时间复位到零。

1. 在蜂鸣器发出短促的蜂鸣音(约0.5秒)之前，持续按复位开关(1)约5秒钟。(蜂鸣器一鸣响就放开。)

* 因为复位开关(1)的端头部分相当尖锐，所以要用力将它推入直至碰到深处。

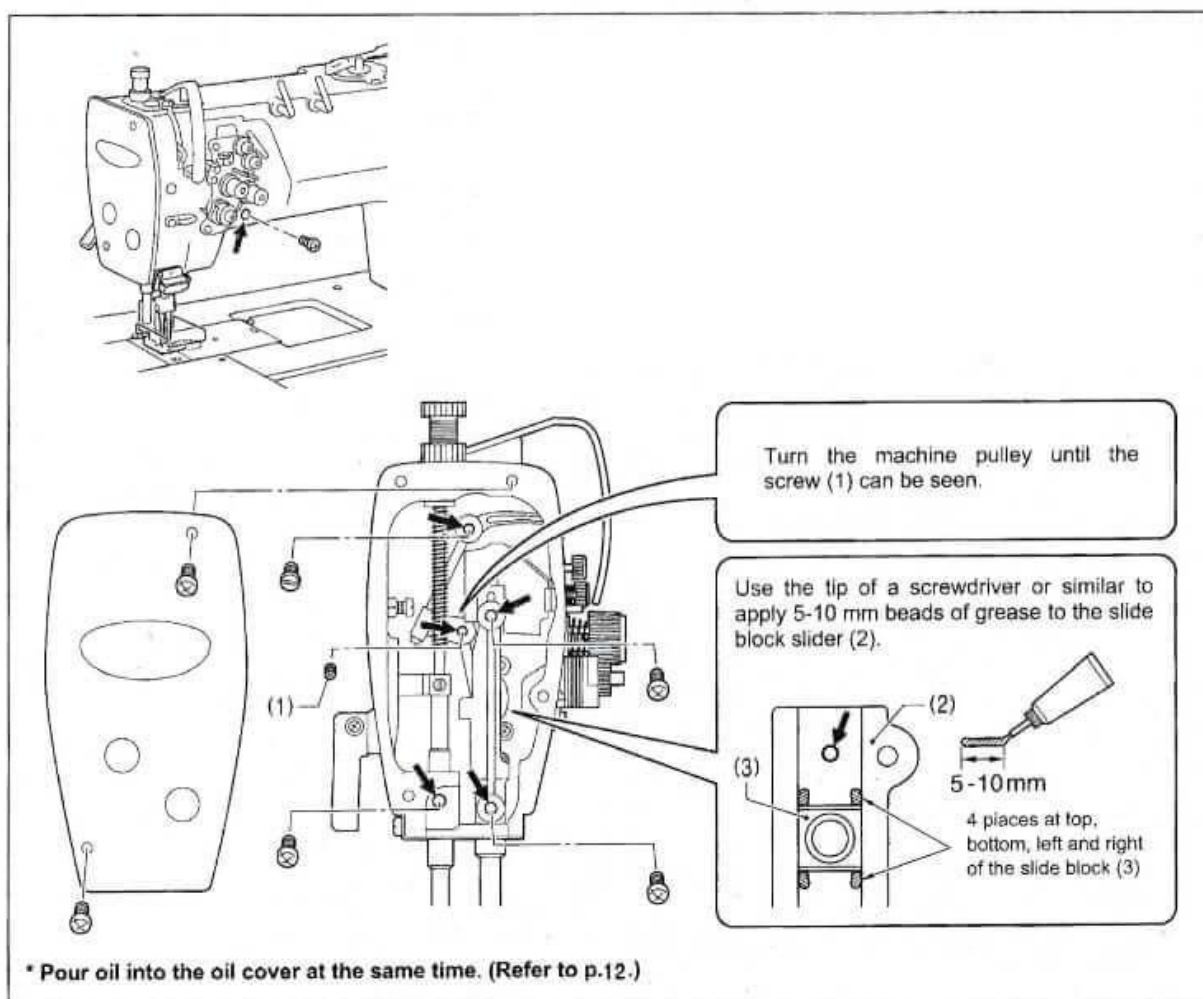
2. 再次持续按复位开关(1)约5秒钟。如果蜂鸣器发出长的蜂鸣音(约2秒钟)，则复位操作完成。

<复位完成的确认方法>

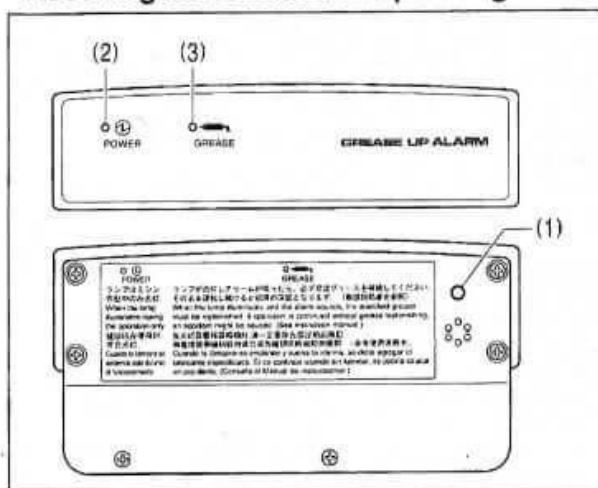
接着，当使缝纫机工作时，如果仅POWER指示灯(2)点亮，则表示复位操作已正确完成。

[注意]

- 如果复位操作没有正确完成，请再次进行上述步骤1. ~2. 的操作。
- 如果按下复位开关(1)，GREASE指示灯(3)不点亮，蜂鸣器也不鸣响，则请一旦使缝纫机工作30秒钟以上后，再次进行复位操作。
- 除了在添加润滑脂以后，请绝对不要按复位开关(1)。



<Resetting the cumulative operating time>



Once the grease has been applied, follow the procedure below to reset the cumulative time between grease applications.

1. Press the RESET switch (1) for about 5 seconds until a short beep (about 0.5 seconds) sounds. (Release the switch once the buzzer sounds.)
 - * Use an object with a sharp point to firmly push in the RESET switch (1) as far as it will go.
2. Press the RESET switch (1) once more for approximately 5 seconds.
A long beep (about 2 seconds) will sound, and the reset procedure will be carried out.

<Checking method after resetting>

If only the POWER indicator (2) illuminates when the sewing machine is next used, the reset procedure has been carried out successfully.

NOTE:

- If the reset procedure has not been carried out successfully, repeat steps 1 and 2 above.
- If the GREASE indicator (3) does not illuminate and the buzzer does not sound when the RESET switch (1) is pressed, operate the sewing machine for more than 30 seconds, and then carry out the reset procedure again.
- The RESET switch (1) should never be pressed except when carrying out the reset procedure after grease application.

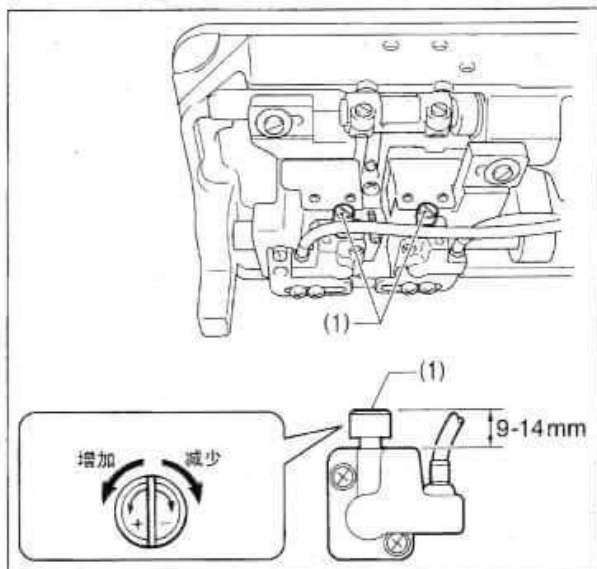
9. 旋梭供油量的调整

! 注意



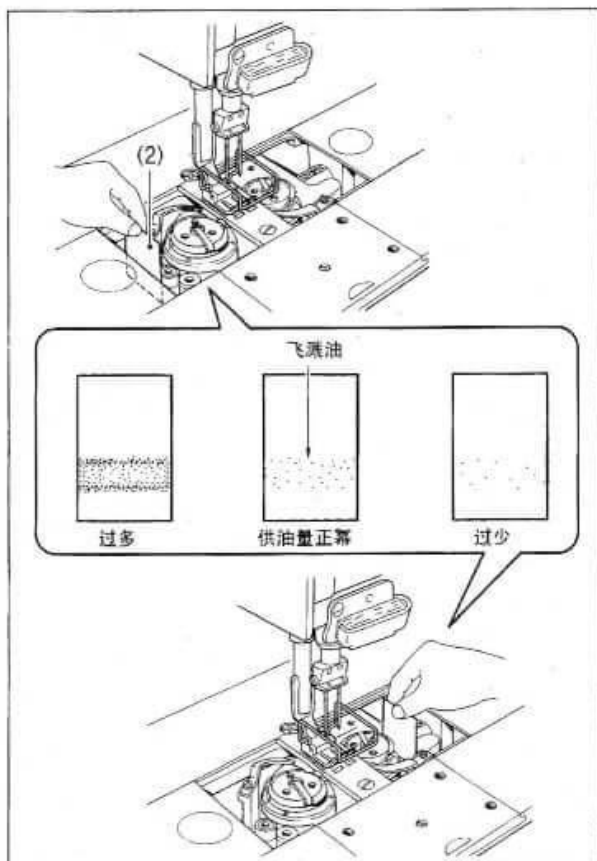
在检查旋梭供油量时,手指和油量测试纸不能碰到旋梭和送布机构等运动零部件。是导致人员受伤的原因。

如更换了旋梭或要变更缝纫速度时,请按下述步骤调整旋梭的供油量。



<供油量调整的大致标准>

1. 将缝纫机头部倒下。
2. 转动油量调节螺钉(1), 将其高度调整到9~14mm。



<供油量的确认>

1. 切断电源开关。
2. 拆去挑线杆至机针上的线。
3. 取下机针和梭芯。
4. 用抬压脚扳手抬起压脚。
5. 接通电源开关。
6. 以缝纫机实际缝纫时的转速进行约1分钟的空运转(适度的断续运转)。
7. 将油量测试纸(2)插入旋梭的左侧(右侧是指旋梭的右侧)并握住, 以实际缝纫时的缝纫机转速使缝纫机运转8秒钟。(对油量测试纸(2)的纸质没有什么要求。)
8. 确认飞溅到测试纸上的油量

<供油量的调整>

1. 将缝纫机头部倒下。
2. 转动油量调整螺钉(1), 调整供油量。
 - 向左转动油量调整螺钉(1), 供油量增加。
 - 向右转动油量调整螺钉(1), 供油量减少。
3. 参照上述[供油量的确认]所述来检查供油量。
 - * 请反复进行油量调整螺钉的调整及供油量的确认, 直到获得适当的供油量为止。
4. 在进行了约2小时的缝纫后, 请再次检查供油量。

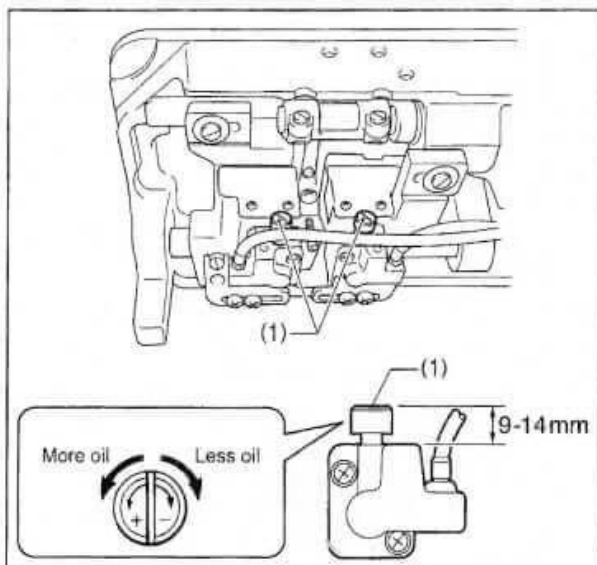
9. ADJUSTING THE ROTARY HOOK LUBRICATION AMOUNT

CAUTION



Be careful not to touch your fingers or the lubrication amount check sheet against moving parts such as the rotary hook or the feed mechanism when checking the amount of oil supplied to the rotary hook, otherwise injury may result.

Use the following procedure to check the amount of oil being supplied to the rotary hook when replacing the rotary hook or when changing the sewing speed.



<Guide to lubrication adjustment>

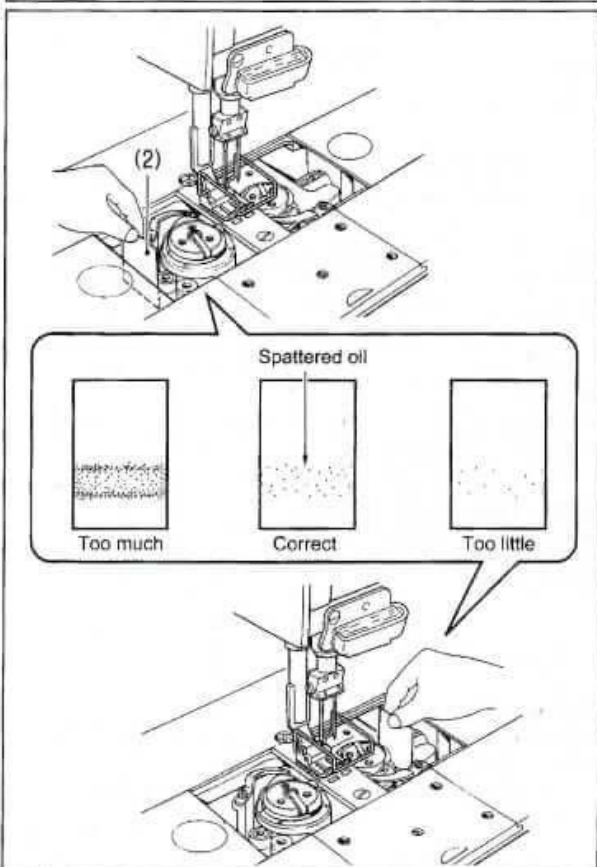
1. Tilt back the machine head.
2. Turn the oil adjusting screw (1) to adjust the height to within 9-14 mm.

<Checking the lubrication amount>

1. Turn off the power switch.
2. Remove the thread from all points from the thread take-up to the needle.
3. Remove the needle and the bobbin.
4. Use the lifting lever to lift the presser foot.
5. Turn on the power switch.
6. Run the machine at the normal sewing speed for approximately 1 minute without sewing any material (following the same start/stop pattern as when actually sewing).
7. Place the lubrication amount check sheet (2) to the left of the rotary hook (the right side is the right side of the rotary hook), and hold it in place while running the sewing machine at the normal sewing speed for approximately 8 seconds. (Any type of paper can be used as the lubrication amount check sheet (2).)
8. Check the amount of oil which has splattered onto the sheet.

<Adjusting the lubrication amount>

1. Tilt back the machine head.
2. Turn the adjusting screw (1) to adjust the lubrication amount.
 - If the rotary hook adjusting screw (1) is turned counterclockwise, the lubrication amount becomes greater.
 - If the rotary hook adjusting screw (1) is turned clockwise, the lubrication amount becomes smaller.
3. Check the lubrication amount again according to the procedure given in "Checking the lubrication amount" above.
 - Turn the adjusting screw (1) and check the lubrication amount repeatedly until the lubrication amount is correct.
4. Check the lubrication amount again after the sewing machine has been used for approximately two hours.



10. 故障检修

- 您在要求维修或服务前，先检查以下各点。
- 如果以下方法仍然不能解决问题，关闭电源开关，向受过训练的技术人员或经销商咨询。

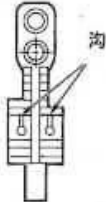
⚠ 注意



在进行故障查寻之前，请先关闭电源开关并断开电源线。但在切断电源后，马达在稍后的一段时间内因惯性仍会继续转动，请在马达完全停止后，再进行作业。

否则如果误按动起动开关，缝纫机会动作，导致人身伤害。

“页码”栏目中带有“*”记号的只能由合格的技术人员进行检查。

现象	检查及调整	参照页
1 打开电源并踩下脚踏板时，缝纫机不工作。	• 断路器或保险丝是否已断开？ • 电源线是否已脱开？ • V型皮带是否已装好？	* 8
2 面线不够紧密  底线不够紧密 	• 缝纫机线是否穿引正确？ 如果穿引不正确，应正确穿引机线。 • 面线张力或底线张力是否太弱？ 调节面线张力或底线张力。 • 取线弹簧的动作范围是否太小？ 降低取线弹簧止动器的位置。 当使用中厚布料规格的缝纫机时，根据布料种类等的不同可能会出现缝线不够紧密的情况。在此情况下，请换上后面有间隙的压脚，或者换上带沟的送布牙齿。  	18 ~ 22 27 *
3 布料下出现环结等不良 	• 线路是否不够光滑？ 用细粒锉刀或砂纸将线路打磨光滑。 • 梭芯是否旋转流畅？ 拉出底线检查机线张力是否松弛，或更换梭芯或梭芯套。 • 挑线量是否过多？ 调整挑线量。	29

10. TROUBLESHOOTING

- Please check the following points before calling for repairs or service.
- If the following remedies do not fix the problem, turn off the power switch and consult a qualified technician or the place of purchase.

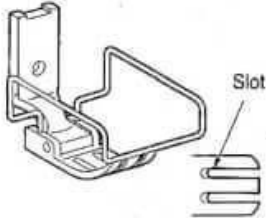
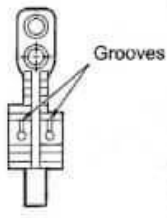
⚠ CAUTION

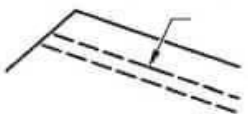
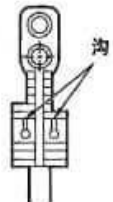


Turn off the power switch and disconnect the power cord before carrying out troubleshooting. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work.

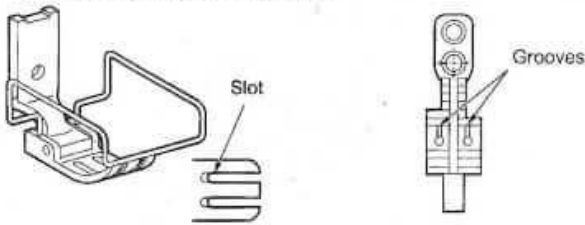
The machine may operate if the treadle is depressed by mistake, which could result in injury.

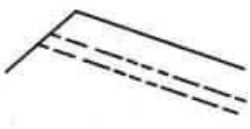
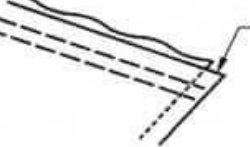
Items with a "*" in the "Page" column should only be checked by a qualified technician.

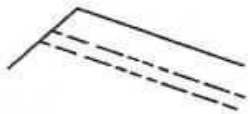
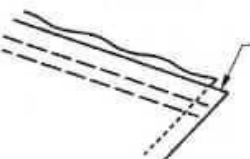
	Problem	Possible cause	Page
1	Machine does not operate when power is turned on and treadle is pressed.	• Is a breaker or fuse blown? • Is the power cord disconnected? • Is the V-belt installed?	* 8
2	Upper thread is not tight.  Lower thread is not tight. 	• Has the thread been threaded incorrectly? If the thread is threaded incorrectly, thread it correctly. • Is the upper thread tension or lower thread tension too weak? Adjust the upper thread tension or lower thread tension. • Is the thread take-up spring operating range too small? Lower the position of the stopper. If using a sewing machine with medium-weight material specifications, poor thread tightening may occur depending on the type of material being sewn. In such cases, replace the presser foot with one that has slots on the underside, or replace the feed dog with a grooved feed dog.  	* 18-22 27 *
3	Loops appear in seam. 	• Is the thread path not smooth enough? Use a file with a fine grain or sandpaper to polish smooth the thread path. • Is the bobbin not turning smoothly? Pull out the lower thread to check that there is no slackness in the thread tension, or replace the bobbin or bobbin case. • Is the thread take-up amount too large? Adjust the thread take-up amount.	* 29

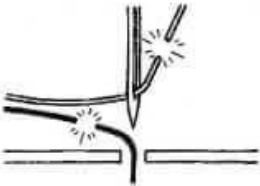
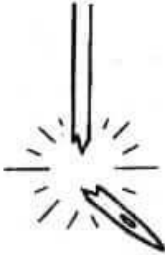
	现象	检查及调整	参照页
4	缝纫时出现跳针 	• 机针是否弯曲? 针尖是否钝化? 如果针尖弯曲或断裂, 应予以更换。 • 机针是否安装正确? 如果机针安装不正确, 应正确加以安装。 • 缝纫机线是否穿引正确? 如果穿引不正确, 应正确穿引机线。 • 压脚压力是否过小? 调整压脚压力。 • 机针是否太细? 更换大一号的机针。 • 压脚是否太高? 调整压脚高度。 • 挑线簧是否太弱? 调整挑线簧的张力。 • 挑线量是否过多? 调整挑线量。	16 18 ~ 22 28 * * 29
5	缝纫开始时出现跳针 缝纫开始时出现脱线 	• 挑线簧张力是否过大? 减小挑线簧张力。 • 挑线簧工作范围是否过大? 升高取线弹簧止动器的位置。 • 缝纫开始时, 挑线杆是否在最高位置? 缝纫开始时, 请将挑线杆置于最高位置。 • 从机针引线孔伸出的线头是否太短? 缝纫开始时, 请从引线孔将线头拉出约 50mm。 • 机针是否过粗? 使用比现有机针小一号的机针。 • 在缝制薄的布料、中厚布料时, 是否使用了后面有间隙的压脚或带沟的送布牙齿? 应使用后面无间隙的压脚。 应使用不带沟的送布牙齿。  	* * 21 22

10. TROUBLESHOOTING

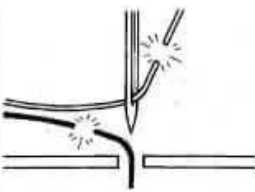
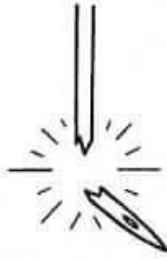
	Problem	Possible cause	Page
4	Skipped stitches occur while sewing 	• Is the needle tip bent? Is the needle tip blunt? If the needle tip is bent or broken, replace the needle. • Is the needle properly installed? If it is incorrect, install the needle correctly. • Is the machine properly threaded? If it is incorrect, thread the thread correctly. • Is the presser foot pressure too weak? Adjust the presser foot pressure. • Is the needle too thin? Replace the needle with a needle that is one rank thicker. • Is the presser foot too high? Adjust the height of the presser foot. • Is the thread take-up spring too weak? Adjust the tension of the thread take-up spring. • Is the thread take-up amount too large? Adjust the thread take-up amount.	16 18-22 28 • • 29
5	Skipped stitches at sewing start Thread unravelling at sewing start 	• Is the thread take-up spring tension too strong? Reduce the tension of the thread take-up spring. • Is the thread take-up spring operating range too large? Raise the position of the stopper. • Is the thread take-up at its highest position at the sewing start? Set the thread take-up to its highest position at the sewing start. • Is the length of the upper thread trailing from the needle hole too short? Pull about 50 mm of thread through the needle hole at the sewing start. • Is the needle too wide? Try using a needle with a count that is one lower than the current needle. • If sewing light or medium-weight materials, is a presser foot with slots on the underside or grooved feed dog being used? Use a presser foot without slots. Use a feed dog without grooves. 	• • 21 22

现象	检查及调整	参照页
6 线缝不平整 	- 压脚压力是否过小? 调整压脚压力。 - 送布牙高度是否太低? 调整送布牙高度。 - 梭芯是否有划痕? 如果梭芯受损,用油磨石打磨光滑,或予以更换。 - V 型皮带的张力是否太小? 用手指按压 V 型皮带,将皮带的挠度调整到 10~14mm。	28 * 8
7 大量的皱褶(张力过大) 	- 面线张力是否过大? 尽量减小面线张力。 - 底线张力是否过大? 尽量减小底线张力。 - 挑线簧张力是否过大? 尽量减小挑线簧张力。 - 挑线簧工作范围是否过大? 尽量升高取线弹簧止动器的位置。 - 压脚压力是否过大? 调整压脚压力。 - 挑线量是否过少? 调整挑线量。	27 27 * * 28 29
8 线缝不合 	压脚压力是否过大? 调整压脚压力。	28
9 在缝纫开始时底线纠结缠绕。 	- 拉出底线时,梭芯旋转方向是否正确? 安装梭芯,使其朝旋梭相反的方向旋转。 - 梭芯上卷绕的机线是否过多? 梭芯卷绕量不应超过 80%。  - 梭芯转动是否流畅? 如果梭芯转动不流畅,应更换梭芯。 - 是否使用了除 Brother 规定的轻合金梭芯以外的其他梭芯? 仅使用 Brother 规定的梭芯。	19 - 20 18 19 - 20

	Problem	Possible cause	Page
6	Uneven seam 	- Is the presser foot pressure too weak? Adjust the presser foot pressure. - Is the feed dog too low? Adjust the feed dog height. - Is the bobbin scratched? If the bobbin is damaged, smooth it with an oiled grindstone or replace it. - Is the V-belt tension too low? Adjust so that there is 10-14 mm of deflection in the V-belt when it is pushed with a finger.	28 • 8
7	Large degree of puckering (excess tension) 	- Is the upper thread tension too strong? Make the upper thread tension as weak as possible. - Is the lower thread tension too strong? Make the lower thread tension as weak as possible. - Are the thread take-up spring tensions too strong? Make the thread take-up spring tension as weak as possible. - Is the thread take-up spring operating range too large? Move the stopper to as high a position as possible. - Is the presser foot pressure too strong? Adjust the presser foot pressure. - Is the thread take-up amount too small? Adjust the thread take-up amount.	27 27 • • 28 29
8	Material slippage 	Is the presser foot pressure too strong? Adjust the presser foot pressure.	28
9	Lower thread is tangled at the sewing start. 	- Is the bobbin spinning direction correct when the lower thread is being pulled? Set the bobbin so that it turns in the opposite direction to the rotary hook. - Is there too much thread wound onto the bobbin? The bobbin winding amount should not be more than 80%. - Is the bobbin turning smoothly? If the bobbin is not turning smoothly, replace the bobbin. - Is a bobbin other than the light-alloy bobbins specified by Brother being used? Use only bobbins which are specified by Brother. 	19-20 18 19-20

现象	检查及调整	参照页
10 面线和底线断裂。 	- 机针是否弯曲或针尖是否断裂? 如果机针弯曲或断裂, 应予以更换。 - 机针是否安装正确? 如果机针安装不正确, 应正确加以安装。 - 缝纫机线是否穿引正确? 如果穿引不正确, 应正确穿引机线。 - 是否已给油箱添加了机油? 如果润滑油的液位下降到油量表视窗的下基线以下, 应添加机油。 - 面线或底线张力是否过小或过大? 调整面线或底线张力。 - 旋梭部分是否沾有灰尘或线头? 进行旋梭的清洁。 - 面线是否因挑线簧工作范围太小而松动? 调整取线弹簧止动器的位置。 - 旋梭、送布牙或其他部件是否受损? 如果这些部件受损, 用油磨石打磨光滑, 或更换受损部件。 - 线路是否受损? 如果线路受损, 用砂纸打磨光滑或更换受损部件。 - 挑线量是否适当? 调整挑线量。	16 18-22 12 27 30 * * * 29
11 断针。 	- 缝纫过程中是否在送入或拉出面料时用力过度? - 机针是否弯曲? 针尖是否断裂或针孔是否被堵住? 更换机针。 - 机针是否在送布牙齿的机针孔中心上下运动? 确认机针的下落情况。如果机针不在送布牙齿的机针孔中心上下运动, 应重新安装送布牙齿。 在针杆旋转时, 转动针杆将它调整到正确的位置。 注意 - 如果断针不慎掉入缝纫衣物中, 会有很大的危险。请尽可能找出机针的残骸, 直至找齐整枚机针。 - 另外, 请保留机针的记录, 我们推荐以制造者责任法进行机针管理。	16 * *
12 当踩下踏板时, 警报器的 GREASE 指示灯点亮、蜂鸣器鸣响	表示是应该添加润滑脂的时间了。 请添加润滑脂。	32

10. TROUBLESHOOTING

	Problem	Possible cause	Page
10	Upper and lower threads are breaking. 	• Is the needle bent or is the needle tip broken? Replace the needle if it is bent or broken. • Is the needle properly installed? If it is incorrect, install the needle correctly. • Is the machine properly threaded? If it is incorrect, thread the thread correctly. • Is the oil tank filled with lubricating oil? If the level of lubricating oil is below the bottom reference line, add more oil. • Is the upper or lower thread tension too weak or too strong? Adjust the upper thread or lower thread tension. • Is the rotary hook blocked with dust or thread scraps? Clean the rotary hook. • Is the upper thread may be loose because the thread take-up spring operating range is too small? Adjust the position of the stopper. • Is the rotary hook, feed dog or other part damaged? If they are damaged, smooth them with an oiled grindstone or replace the damaged parts. • Is the thread path damaged? If the thread path is damaged, smooth it with sandpaper or replace the damaged part. • Is the thread take-up amount correct? Adjust the thread take-up amount.	16 18-22 13 27 30 • • • 29
11	Broken needles 	• Is the material being pushed or pulled with excessive force during sewing? • Is the needle bent, is the needle tip broken, or is the needle hole blocked? Replace the needle. • Does the needle drop into the center of the needle hole in the feed dog? Check the needle drop position. If the needle does not drop into the center of the needle hole in the feed dog, reinstall the feed dog. If the needle bar has rotated, rotate the needle bar to the correct position. Caution • It is extremely dangerous to leave any pieces of broken needle sticking in the material. If the needle breaks, search for all pieces until the whole of the needle is found again. • Furthermore, we recommend we recommend that through steps be taken to account for such needles to comply with product liability regulations.	16 • •
12	The GREASE indicator on the alarm display illuminates and the buzzer sounds when the treadle is depressed.	• This is a notification that it is time to apply grease. Apply grease to the sewing machine.	32

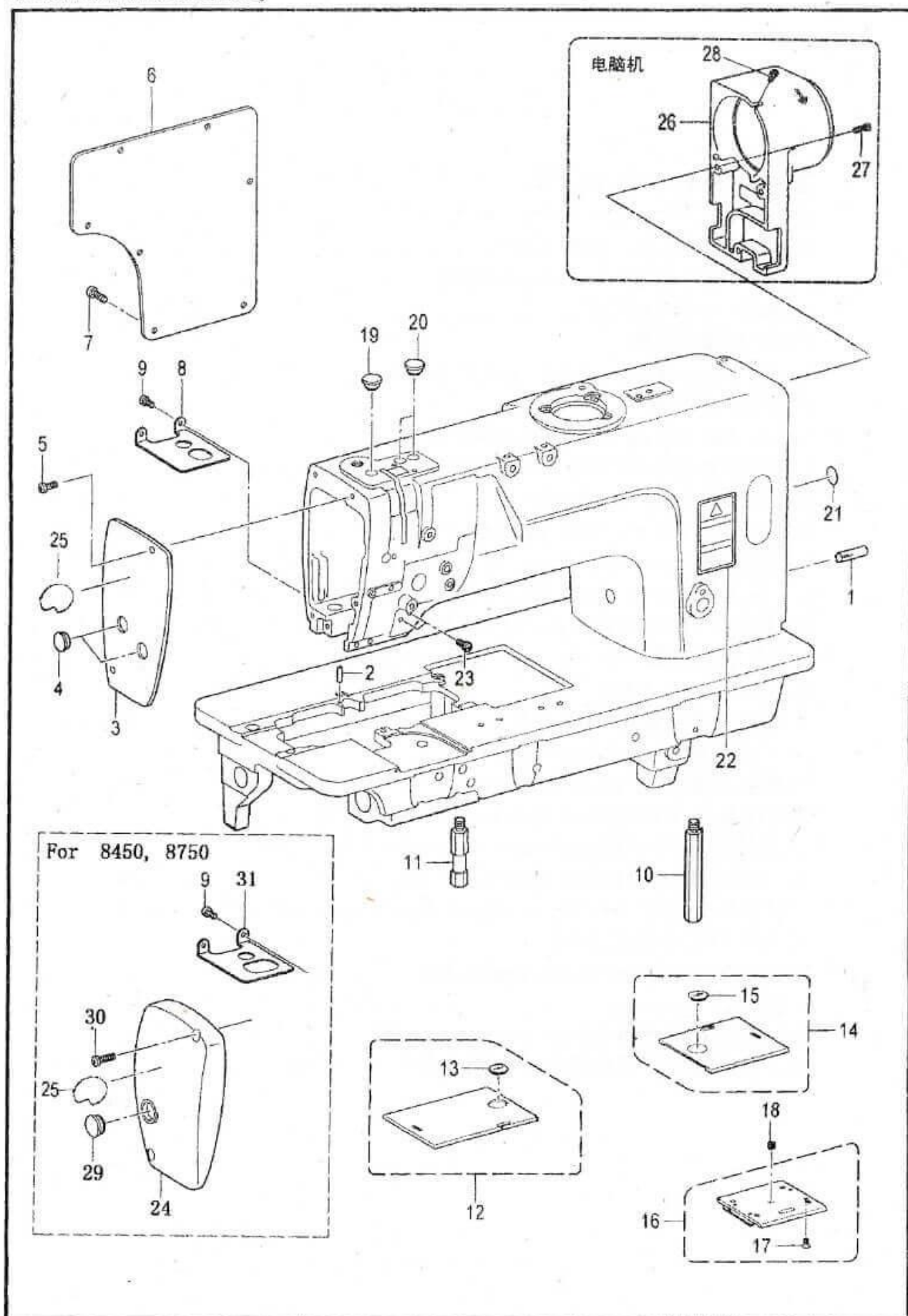
零件样本

PARTS BOOK

零件样本/PARTS BOOK

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A. 机体部分 / Machine body

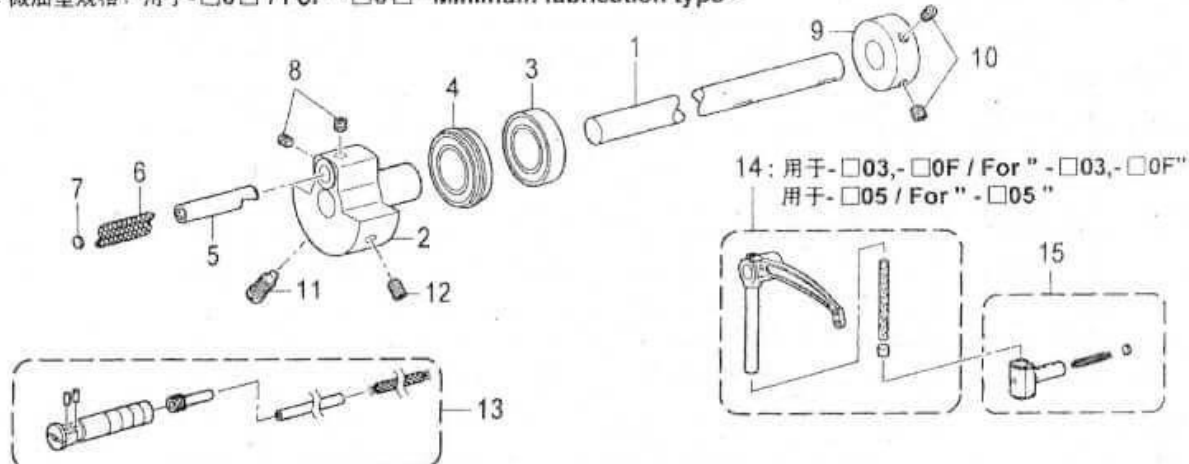


A.机体部件/Machine body

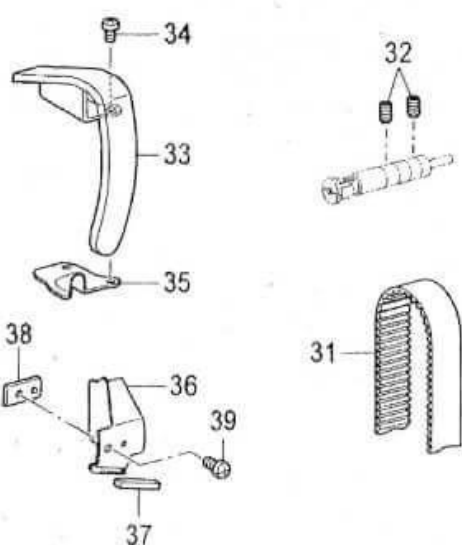
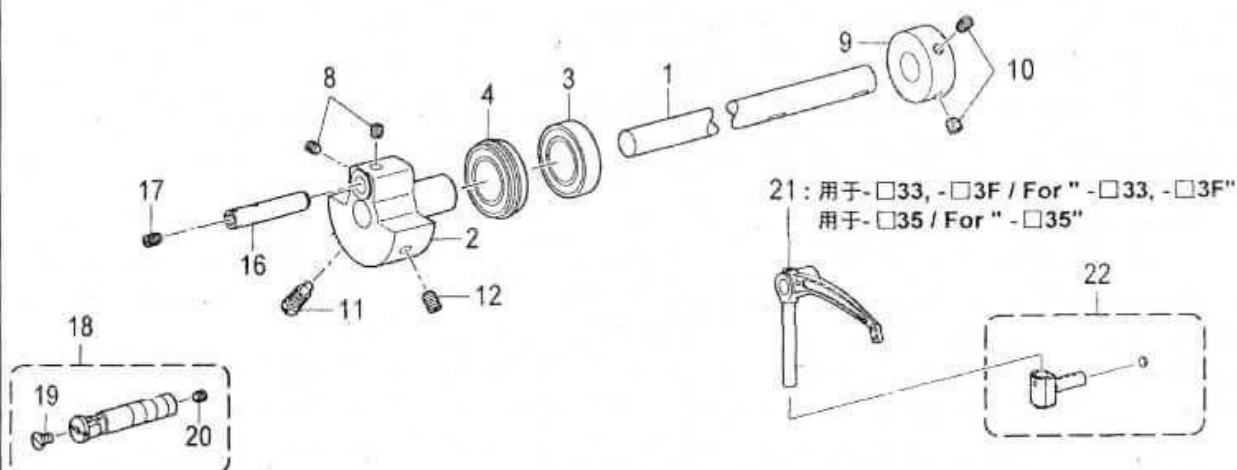
序号 Ref.No	参考件号 Ref.Parl No.	零部件名称	Name of parts	数量 Amt.			备注
				□□3	□□5	□□F	
1	140063001	带槽销	Dowel pin	1	1	1	
2	SA3924001	定位销	Positioning pin	1	1	1	
3	SA2440001	面板	Face plate	1	1	1	
4	SA2929001	橡皮塞,12.5	Rubber cap,12.5	2	2	2	
5	062500816	螺钉 M5 x 8	Screw,pan M5 x 8	2	2	2	
6	SA2441001	侧板	Rear cover	1	1	1	
7	062501216	螺钉 M5 x 12	Screw,pan M5 x 12	7	7	7	
8	SA2443001	防尘板	Dust protector	1	1	1	8420, 8720
9	062500616	螺钉 M5 x 6	Screw,pan M5 x 6	2	2	2	
10	SA2444001	脚柱 L	Bed leg,L	1	1	1	
11	SA2445001	脚柱 S	Bed leg,S	1	1	1	
12	SA2447001	推板LA 组件	Slide plate,LA assy	1	1	1	
13	SA2479001	推板窗	Bobbin window	1	1	1	
14	SA2449001	推板R组件	Slide plate,assy R	1	1	1	
15	SA2479001	推板窗	Bobbin window	1	1	1	
16	S36663051	前推板组件	Slide plate,f assy	1	1	1	
17	S34438051	螺钉 SM3.18-40 x 4	Screw,flat SM3.18-40 x 4	4	4	4	
18	116010001	螺钉 SM5.16-40 x 4	Screw,flat SM3.16-40 x 4	1	1	1	
19	SA2929001	橡皮塞 12.5	Rubber cap,12.5	1	1	1	8420, 8720
20	SA2929001	橡皮塞 12.5	Rubber cap,12.5	2	2	2	
21	S37060001	接地标记	Label,grounding	1	1	1	
22		警告标记	Safety label	1	1	1	
25		商标牌	Plate with trademark	1	1	1	
26	SA2442001	马达罩	Motor cover	1	1	1	直驱/Direct drive
27	062501416	螺钉 M5 x 14	Screw,pan M5 x 14	3	3	3	直驱/Direct drive
28	062501016	螺钉 M5 x 10	Screw,pan M5 x 10	1	1	1	直驱/Direct drive
23	062500816	螺钉 M5 x 8	Screw,pan M5 x 8	2	2		450, 8750
24	SA4364001	面板	Face plate	1	1		450, 8750
29	104449001	橡皮塞 15.5	Rubber cap 15.5	1	1		450, 8750
30	062501416	螺钉 M5 x 14	Screw,pan M5 x 14	2	2		450, 8750
31	SA4370001	防尘板	Dust protector	1	1		450, 8750

B. 上轴装置 / Upper shaft mechanism

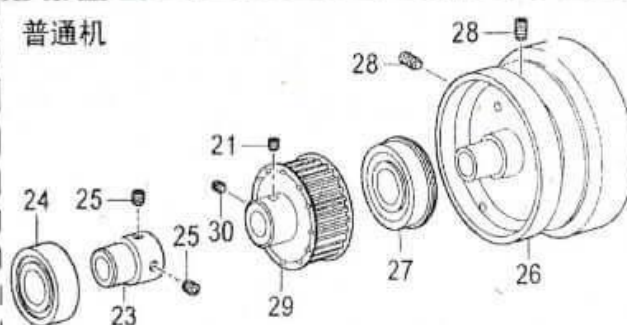
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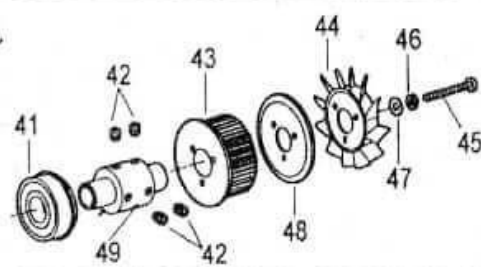
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普通机



直驱机

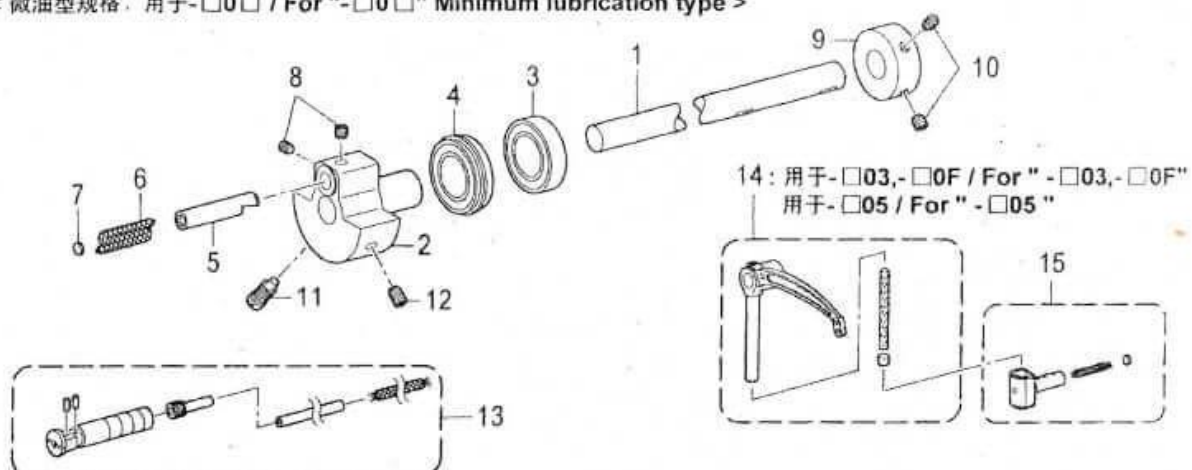


B. 上轴装置/Upper shaft mechanism

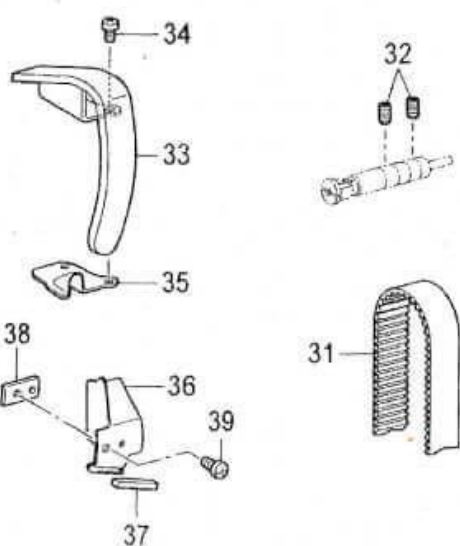
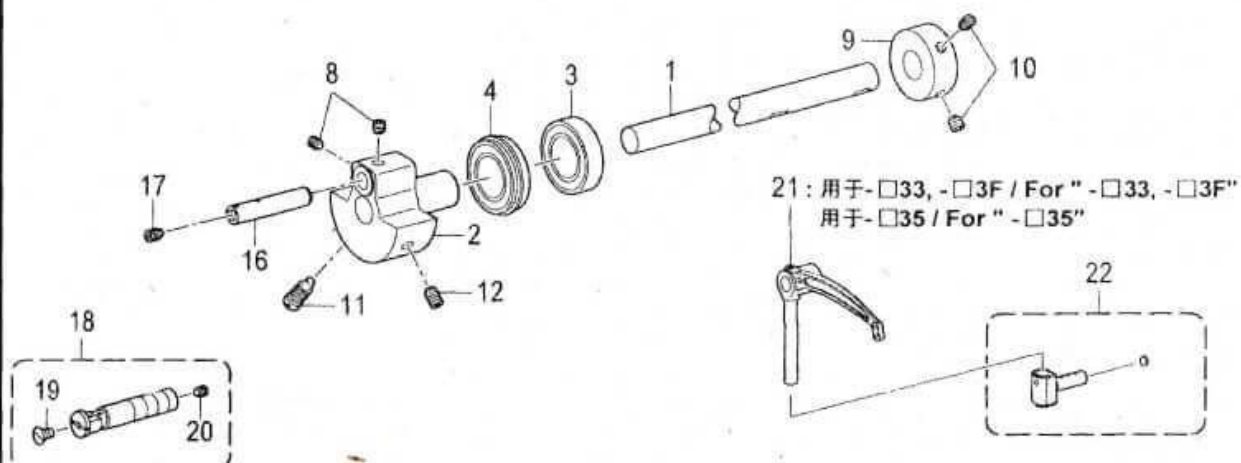
序号 Ref.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				☐ 3	☐ 5	☐ F	
1	SA2746201	上轴 ST	Upper shaft ,ST	1	1	1	8420/8720
	SA4550001	上轴 ST	Upper shaft ,ST	1	1		8450/8750
	SA2462001	上轴 ST	Upper shaft ,DD	1	1	1	8420D/8720D
	SA4551001	上轴DD	Upper shaft ,DD	1	2		8450D/8720D
2	SA4086001	针杆曲柄	Thread takeup crank	1	1	1	8420/8720
	SA4373001	针杆曲柄	Thread takeup crank	1	1		8450/8750
3	S25234001	球轴承 6004ZZ	Ball bearing,6004ZZ	1	1	1	
4	S38707001	球轴承 6004ZZNR	Ball bearing,6004ZZNR	1	1	1	
5	S38398001	针杆曲柄轴	Crankshaft,NBAR	1	1	1	
	SA6166001	针杆曲柄轴	Crankshaft,NBAR	1	1		8750/8450D
6	SA4335001	油线 6×6 L=60	Wick, 6×6 L=60	1	1	1	
7	113014000	油线盖	Pusher	1	1	1	
8	S25260001	固定螺钉 M6×5	Set screw,socket(ft)M6×5	2	2	2	
9	SA1120001	卷线驱动轮	Bobbin winder driving wheel	1	1	1	
10	S23651001	固定螺钉 M6×6	Set screw,socket(ft)M6×6	2	2	2	
11	S25235001	螺钉M8	Screw M8	1	1	1	
12	S25236001	螺钉 M6×10	Set screw,socket(ft)M6×10	1	1	1	
13	SA2861001	挑线杆支撑轴总组件	Thread takeup shaft unit	1	1	1	
14	SA2935101	挑线杆S3L组件	Thread takeup lever assy,s3l	1		1	8420
	SA2935101	挑线杆S3L组件	Thread takeup lever assy,s3l	1			8420D-403
	SA2935101	挑线杆S3L组件	Thread takeup lever assy,s3l	1	1		8450D-40 ☐ 8750D-40 ☐
	SA2936101	挑线杆S5L组件	Thread takeup lever assy,s5l		1		8420,8420D-405
	SA2936101	挑线杆S5L组件	Thread takeup lever assy,s5l	1	1		8450
	SA2937101	挑线杆S5L组件	Thread takeup lever assy,s5l	1	1		8750,8720,58720D-40 ☐
15	S13160001	挑线杆接头滑块组件2	Ttakeup slide block assy,2	1	1	1	用于 ☐ 0 ☐
1	SA2746201	上轴 ST	Upper shaft ,ST	1	1	1	用于 ☐ 3 ☐ ,For ☐ 3 ☐
	SA2452101	上轴 DD	Upper shaft ,DD	1	1	1	用于 ☐ 3 ☐ ,For ☐ 3 ☐ ☐ ,直驱 / Direct drive
2	SA4086001	针杆曲柄	Thread takeup crank	1	1	1	用于 ☐ 3 ☐ ,For ☐ 3 ☐
3	S25234001	球轴承 6004ZZ	Ball bearing,6004ZZ	1	1	1	用于 ☐ 3 ☐ ,For ☐ 3 ☐
4	S38707001	球轴承 6004ZZNR	Ball bearing,6004ZZNR	1	1	1	用于 ☐ 3 ☐ ,For ☐ 3 ☐
16	SA4112001	针杆曲柄轴 P	Thread takeup crank shaft,P	1	1	1	用于 ☐ 3 ☐ ,For ☐ 3 ☐
17	014500836	螺钉 M5×8	Set screw,socket(CP)M5×8	1	1	1	用于 ☐ 3 ☐ ,For ☐ 3 ☐
8	S25260001	固定螺钉 M6×5	Set screw,socket(ft)M6×5	2	2	2	用于 ☐ 3 ☐ ,For ☐ 3 ☐
9	SA1120001	卷线驱动轮	Bobbin winder driving wheel	1	1	1	用于 ☐ 3 ☐ ,For ☐ 3 ☐
10	S23651001	固定螺钉 M6×6	Set screw,socket(ft)M6×6	2	2	2	用于 ☐ 3 ☐ ,For ☐ 3 ☐
11	S25235001	螺钉M8	Screw M8	1	1	1	用于 ☐ 3 ☐ ,For ☐ 3 ☐
12	S25236001	螺钉 M6×10	Set screw,socket(ft)M6×10	1	1	1	用于 ☐ 3 ☐ ,For ☐ 3 ☐
18	SA2464001	挑线杆支架轴组件	Thread takeup shaft assy	1	1	1	用于 ☐ 3 ☐ ,For ☐ 3 ☐
19	SA2958001	螺钉 M5×6	Screw,flat M5×6	1	1	1	用于 ☐ 3 ☐ ,For ☐ 3 ☐
20	012500536	螺钉 M5×5	Set screw,socket(ft)M5×5	1		1	用于 ☐ 3 ☐ ,For ☐ 3 ☐
21	SA4115001	挑线杆 S3P	Thread takeup lever,S3 P	1		1	用于 ☐ 3 ☐ ,For ☐ 3 ☐
21	SA4116001	挑线杆 S5P	Thread takeup lever,S5 P		1		用于 ☐ 3 ☐ ,For ☐ 3 ☐
22	SA4129001	挑线杆接头滑块组件	Ttakeup slide block assy	1	1	1	用于 ☐ 3 ☐ ,For ☐ 3 ☐
23	SA2748001	轴承套座	Ball bearing bush	1	1	1	
24	076023800	R球轴承 60/22ZZ	Ball bearing,radial 60/22ZZ	1	1	1	
25	S23651001	固定螺钉 M6×6	Set screw,socket(ft)M6×6	2	2	2	

B. 上轴装置 / Upper shaft mechanism

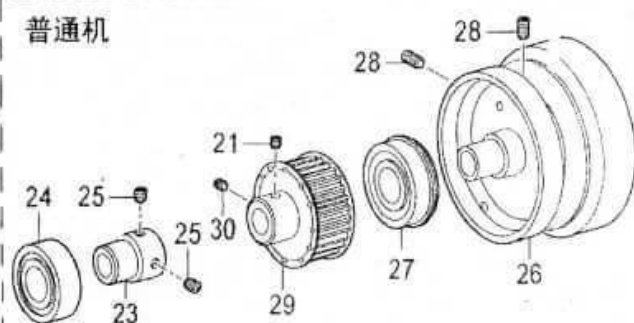
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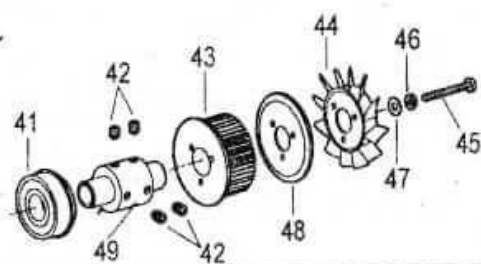
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普通机



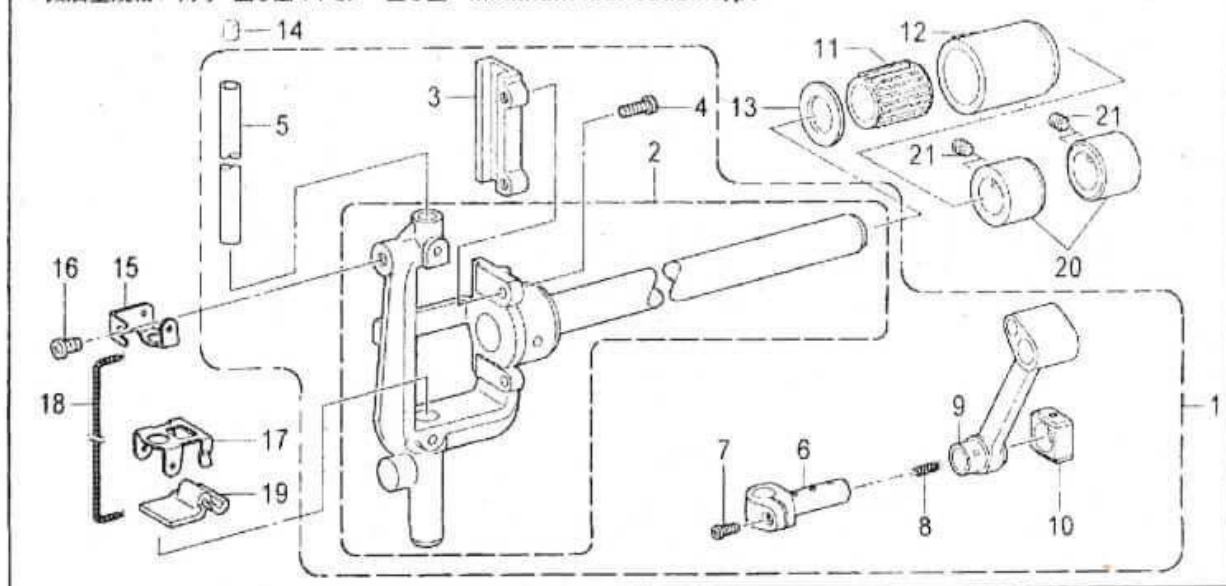
直驱机



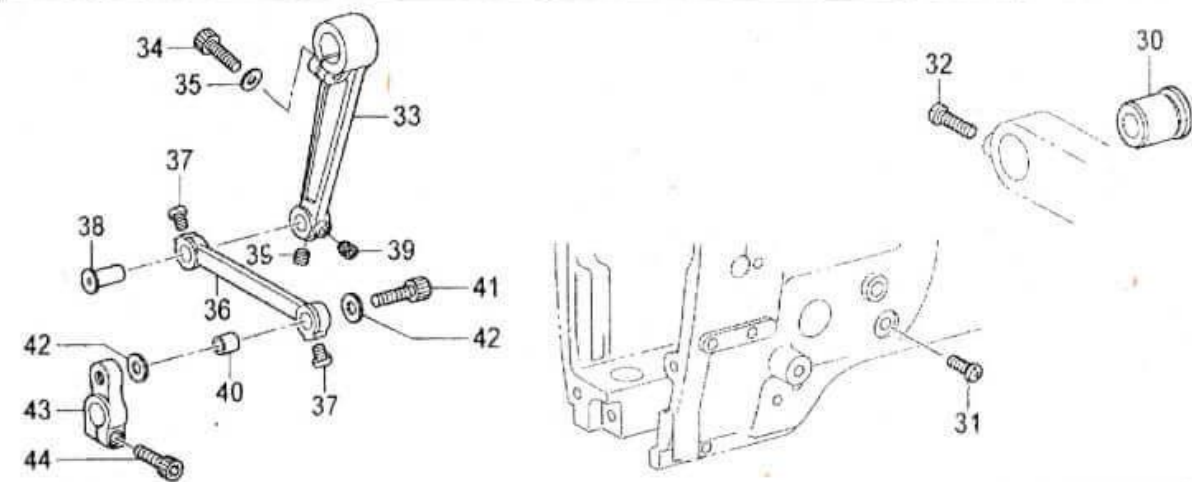
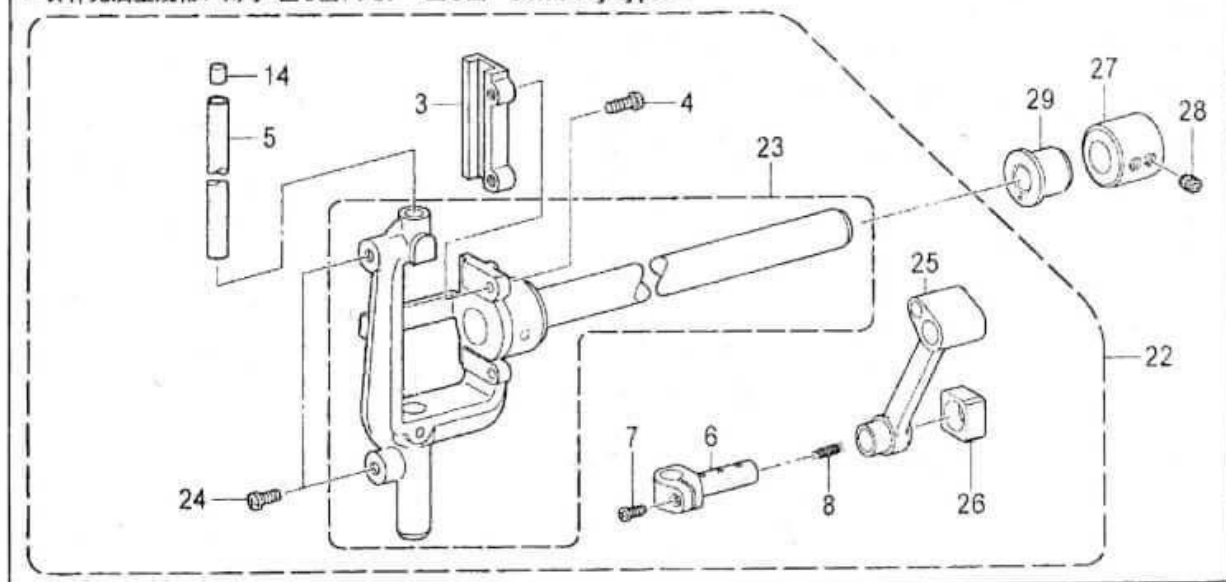
26	SA2750001	手轮	Pully	1	1	1	
27	158115001	球轴承 6204ZZNR	Ball bearing,6204ZZNR	1	1	1	
28	012061036	螺钉 M6 x 10	Set screw,socket(fit)M6 x 10	2	2	2	
29	SA2720001	同步轮UST组件	Timing pulley assy,U ST	1	1	1	
30	SA4214001	固定螺钉 M6 x 6	Set screw,socket(CP)M6 x 6	2	2	2	
31	SA2463001	同步皮带	Timing belt	1	1	1	
32	012061036	螺钉 M6 x 10	Set screw,socket(fit)M6 x 10	2			
33	SA2469001	挑线杆防护罩	Thresd takeup lever cover	1	1	1	
34	062500816	螺钉 M5 x 8	Screw,pan M5 x 8	2	2	2	
35	SA3057001	防尘盖	Dust cover	1	1	1	
36	SA3058101	遮掩板	Shelter plate	1	1	1	8420/8720
	SA4376101	遮掩板	Shelter plate	1	1		8450/8750
37	SA3065001	油毡	Felt	1	1	1	
38	SA3059001	遮掩板支座	Holder,shelter plate	1	1	1	
39	062500816	螺钉 M5 x 8	Screw,pan M5 x 8	1	1	1	
41	158115001	球轴承 6204ZZNR	Ball bearing,6204ZZNR	1	1	1	直驱/Direct drive
42	S23651001	固定螺钉 M6 x 6	Set screw,socket(CP)M6 x 6	4	4	4	直驱/Direct drive
43	SA2461001	同步轮UDD组件	Timing pulley assy,U DD	1	1	1	直驱/Direct drive
44	S38713100	叶轮	Fan	1	1	1	直驱/Direct drive
45	062403512	螺钉M4 x 35	Screw,pan M4 x 35	3	3	3	直驱/Direct drive
46	028040242	弹簧垫圈	Spring washer	3	3	3	直驱/Direct drive
47	025040232	平垫圈M4	Washer,plain M4	3	3	3	直驱/Direct drive
48	SA2462001	同步轮U法兰	Timing pulley flange	1	1	1	直驱/Direct drive
49	SA1141001	联轴器	Ticin	1	1	1	直驱/Direct drive

C-1 针杆摆动装置 / Needle bar rocking mechanism

< 微油型规格, 用于-□0□ / For "-□0□" Minimum lubrication type >



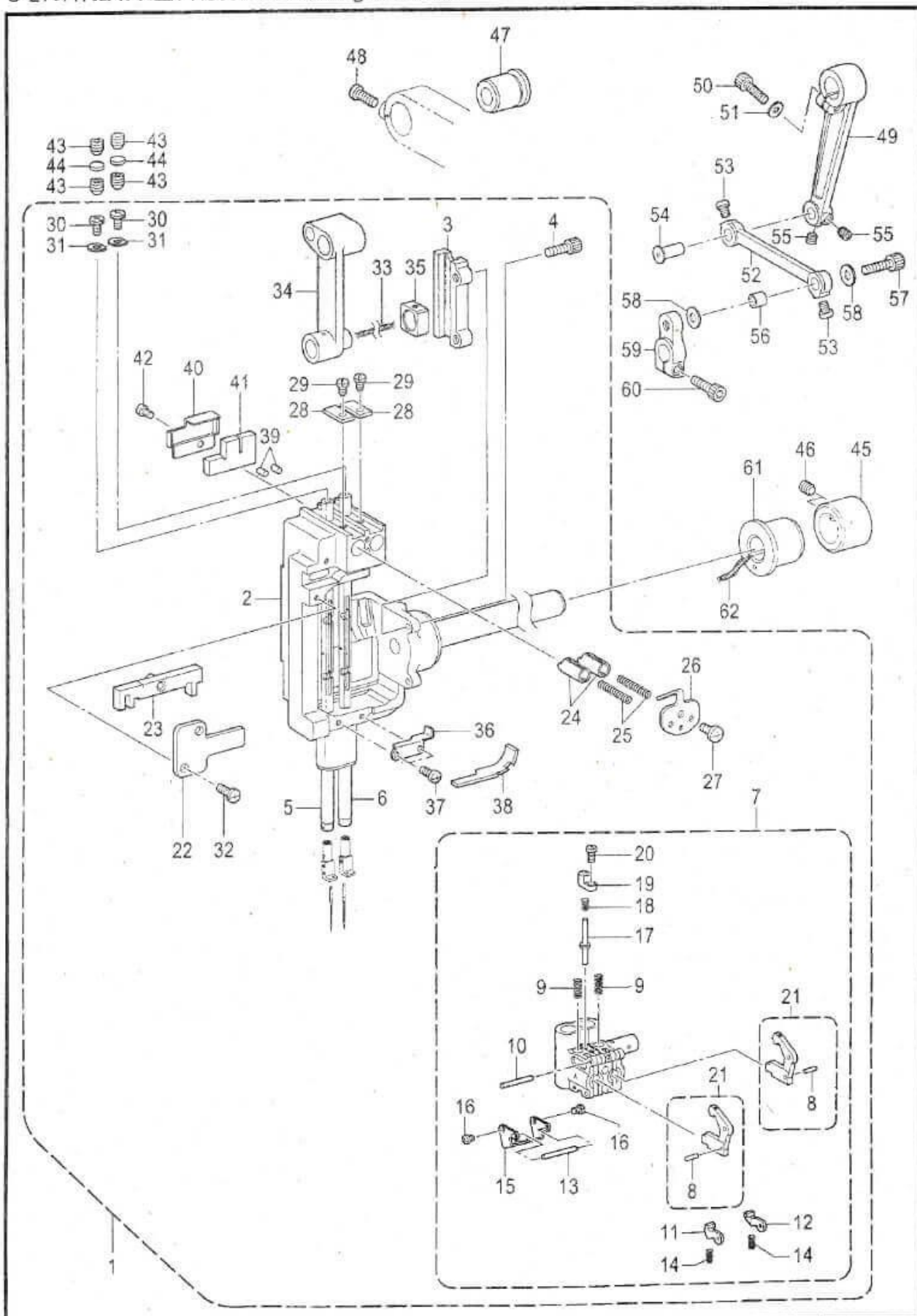
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C-1 针杆摆动装置/Needle bar rocking mechanism

序号 Ref.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Aml.			备注
				003	005	00P	
1	SA4124101	针杆摆动轴组件	Needle bar rocker shaft assy	1	1	1	
2	SA3854001	针杆台组件	Needle bar base assy	1	1	1	
3	SA2474101	角滑块槽	Slide block slider	1	1	1	
4	062401016	螺钉M4×10	Screw,pan M4×10	2	2	2	
5	SA2475001	针杆	Needle bar	1	1	1	
6	SA3710001	针杆抱箍	Needle bar clamp	1	1		
7	062350816	螺钉M3.5×8	Screw,pan M3.5×8	1	1	1	
8	112728001	油线 L=50	Wick,L=50	1	1	1	
9	SA3711001	针杆曲柄连杆	Crank rod,nbar	1	1	1	
10	SA3712001	角滑块	Slide block	1	1	1	
11	SA2482001	滚针轴承	Needle bearing	1	1	1	
12	SA2483001	轴承套	Case	1	1	1	
13	SA2484001	垫圈	Washer,plain	1	1	1	
14	148394000	针杆塞	Cap,nbar	1	1	1	
15	SA4007001	油毡上支架U	Flat support,U	1	1	1	
16	062500616	螺钉M5×6	Screw,pan M5×6	1	1	1	
17	SA3848001	油毡下支架D	Flat support,D	1	1	1	
18	S07465000	油线 L=200	Wick,L=200	1	1	1	
19	SA3852001	油毡	Flat	1	1	1	
20	SA2485001	紧圈	Set screw collar	2	2	2	
21	S2526001	固定螺钉 M6×5	Set screw,socket(ft)M6×5	4	4	4	
22	SA4093001	针杆摆动轴组件	Needle bar rocker shaft assy	1	1	1	用于□3□,For □ 3□
23	SA2471001	针杆台组件	Needle bar base assy	1	1	1	用于□3□,For □ 3□
24	062500816	螺钉M5×8	Screw,pan M5×8	2	2	2	用于□3□,For □ 3□
3	SA2474101	角滑块槽	Slide block slider	1	1	1	用于□3□,For □ 3□
4	062401016	螺钉M4×10	Screw,pan M4×10	2	2	2	用于□3□,For □ 3□
5	SA2475001	针杆	Needle bar	1	1	1	用于□3□,For □ 3□
6	SA3710001	针杆抱箍	Needle bar clamp	1	1	1	用于□3□,For □ 3□
7	062350816	螺钉M3.5×8	Screw,pan M3.5×8	1	1	1	用于□3□,For □ 3□
8	112728001	油线 L=50	Wick,L=50	1	1	1	用于□3□,For □ 3□
25	SA4094001	针杆曲柄连杆	Crank rod,nbar	1	1	1	用于□3□,For □ 3□
26	SA2485001	角滑块	Slide block	1	1	1	用于□3□,For □ 3□
14	148394000	针杆塞	Cap,nbar	1	1	1	用于□3□,For □ 3□
27	SA2485001	紧圈	Set screw collar	1	1	1	用于□3□,For □ 3□
28	S25260001	固定螺钉 M6×5	Set screw,socket(ft)M6×5	2	2	2	用于□3□,For □ 3□
29	SA4095001	摆动轴轴套L	Bush,L	1	1	1	用于□3□,For □ 3□
30	SA2486101	摆动轴轴套R	Bush,R	1	1	1	
31	062500816	螺钉M5×8	Screw,pan M5×8	1	1	1	
32	062061616	螺钉M6×16	Screw,pan M6×16	1	1	1	
33	SA2489001	针杆摆动连杆	Needle bar rocker lever assy	1	1	1	
34	018062032	螺栓M6×20	Bolt,socket M6×20	1	1	1	
35	118735002	垫圈	Washer	1	1	1	
36	SA2490101	针杆摆动杆	Rocker link,NBAR	1	1	1	
37	S23460001	螺钉M6×5	Screw,pan M6×5	2	2	2	
38	SA4117001	摆动杆轴P	Link shaft,NBAR rocker P	1	1	1	
39	012060636	螺钉 M6×6	Set screw,socket(ft)M6×6	2	2	2	
40	SA4118001	摆动杆轴套P	Zigzag link bush,P	1	1	1	
41	018062532	内六角螺栓M6×25	Bolt,socket M6×25	1	1	1	
42	SA2493001	垫圈	Washer,plain	2	2	2	
43	SA2494001	针杆摆动臂	Needle bar rock arm	1	1	1	
44	018062032	螺栓M6×20	Bolt,socket M6×20	1	1	1	

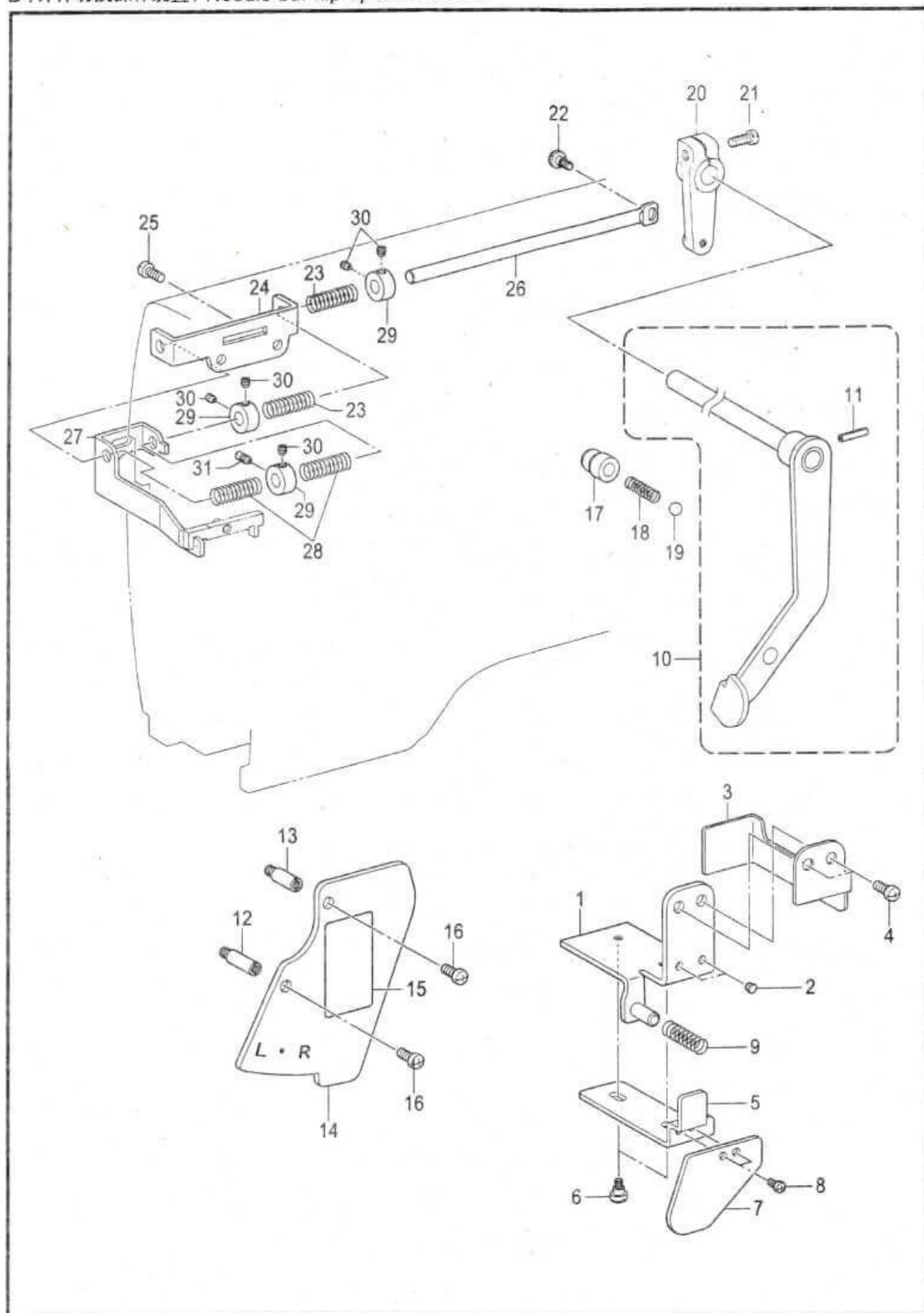
C-2. 针杆摆动装置 / Needle bar rocking mechanism



C-2针杆摆动装置/Needle bar rocking mechanism

序号 Ref.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□□	□□□	□□□	
1	SA4377001	针杆摆动轴组件	Needle bar rocker shaft assy	1	1		
2	SA4378001	针杆台组件	Needle bar base assy	1	1		
3	SA2474101	角滑块槽	Slide block slider	1	1		
4	018401036	螺钉M4×10	Bolt socket M4×10	2	2		
5	SA4382001	针杆组件L	Needle bar assy,L	1	1		
6	SA4385001	针杆组件R	Needle bar assy,R	1	1		
7	SA4387001	针杆抱箍组件	Needle bar clamp assy	1	1		
8	149604001	销 1.5×5.8	Pin 1.5×5.8	2	2		
9	149605001	离合摆杆弹簧	Spring,clutch lever	2	2		
10	149827001	销 2×15.8	Pin 2×15.8	1	1		
11	S34561001	止动块 L	Clutch stopper,L	1	1		
12	S34562001	止动块 R	Clutch stopper,R	1	1		
13	149608001	销 2×17.8	Pin 2×17.8	1	1		
14	112609001	推动板止动簧	Spring	1	1		
15	SA4391001	弹簧支架	Spring holding	1	1		
16	062260316	螺钉M2.6×3	Screw,pan M2.6×3	2	2		
17	149610001	销	Pin	1	1		
18	149611101	离合销弹簧	Spring,release pin	1	1		
19	SA4392001	离合销盖	Pin cover	1	1		
20	062260516	螺钉M2.6×5	Screw,pan M2.6×5	1	1		
21	SA4389001	离合器摆杆组件	Clutch lever assy	2	2		
22	SA4395001	角滑块导向板	Slide block guide plate	1	1		
23	S07575000	滑块组件	Slide block assy	1	1		
24	SA4583001	针杆定位	Stopper,Nbar	2	2		
25	149622001	针杆止动器弹簧	Spring,Nbar stopper	2	2		
26	SA4396001	弹簧盖	Spring cover	1	1		
27	060350616	螺钉M3.5×6	Screw bind M3.5×6	1	1		
28	SA4397001	针杆定位	Rotate stopper,NBar	2	2		
29	SA4398001	螺钉SM3.5	Screw SM3.5	2	2		
30	060350616	螺钉M3.5×6	Screw bind M3.5×6	2	2		
31	SA4399001	垫圈	Washer,plane	2	2		
32	062350816	螺钉M3.5×8	Screw pan M3.5×8	1	1		
33	112728001	油线 L=50	Wick,L=50	1	1		
34	SA4393001	针杆曲柄连杆	Crank rod,Nbar	1	1		
35	SA4394001	角滑块	Slide block	1	1		
36	SA4401001	油毡下支架D	Felt support,D	1	1		
37	062350616	螺钉M3.5×6	Screw bind M3.5×6	2	2		
38	SA4400001	油毡	Felt	1	1		
39	107155001	油毡	Felt	2	2		
40		油毡上支架U	Felt support,U	1	1		
41	SA5237001	油毡	Felt	2	2		
42	062350516	螺钉M3.5×5	Screw pan M3.5×5	1	1		
43	014080831	固定螺钉 M8×8	Set screw,socket(CP)M8×8	4	4		
44	154567000	衬垫5.3	Spacer,5.3	2	2		
45	SA2485001	紧圈	Set screw collar	1	1		
46	S25260001	固定螺钉 M6×5	Set screw,socket(R)M6×5	2	2		
47	SA2486101	摆动轴轴套R	Bush,R	1	1		
48	062061616	螺钉M6×16	Screw pan M6×16	1	1		
49	SA2489001	针杆摆动连杆	Needle bar rocker lever assy	1	1		
50	018062032	螺栓M6×20	Bolt socket M6×20	1	1		
51	118735002	垫圈6	Washer	1	1		
52	SA2490101	针杆摆动杆	Rocker link,NBar	1	1		
53	S23460001	螺钉M6×5	Screw pan M6×5	2	2		
54	SA4117001	摆动杆轴P	Link shaft,Nbar rocker P	1	1		
55	012060636	螺钉 M6×6	Set screw,socket(R)M6×6	2	2		
56	SA4118001	摆动杆轴套P	Zigzag link bush,P	1	1		
57	018062532	螺栓M6×25	Bolt socket M6×25	1	1		
58	SA2493001	垫圈	Washer,plain	2	2		
59	SA2494001	针杆摆动臂	Needle bar rock arm	1	1		
60	018062032	螺栓M6×20	Bolt socket M6×20	1	1		
61	SA5332001	轴套L	Bush,L	1	1		
62	S48204000	油线4×4 L=150	Wick,4×4 L=150	1	1		

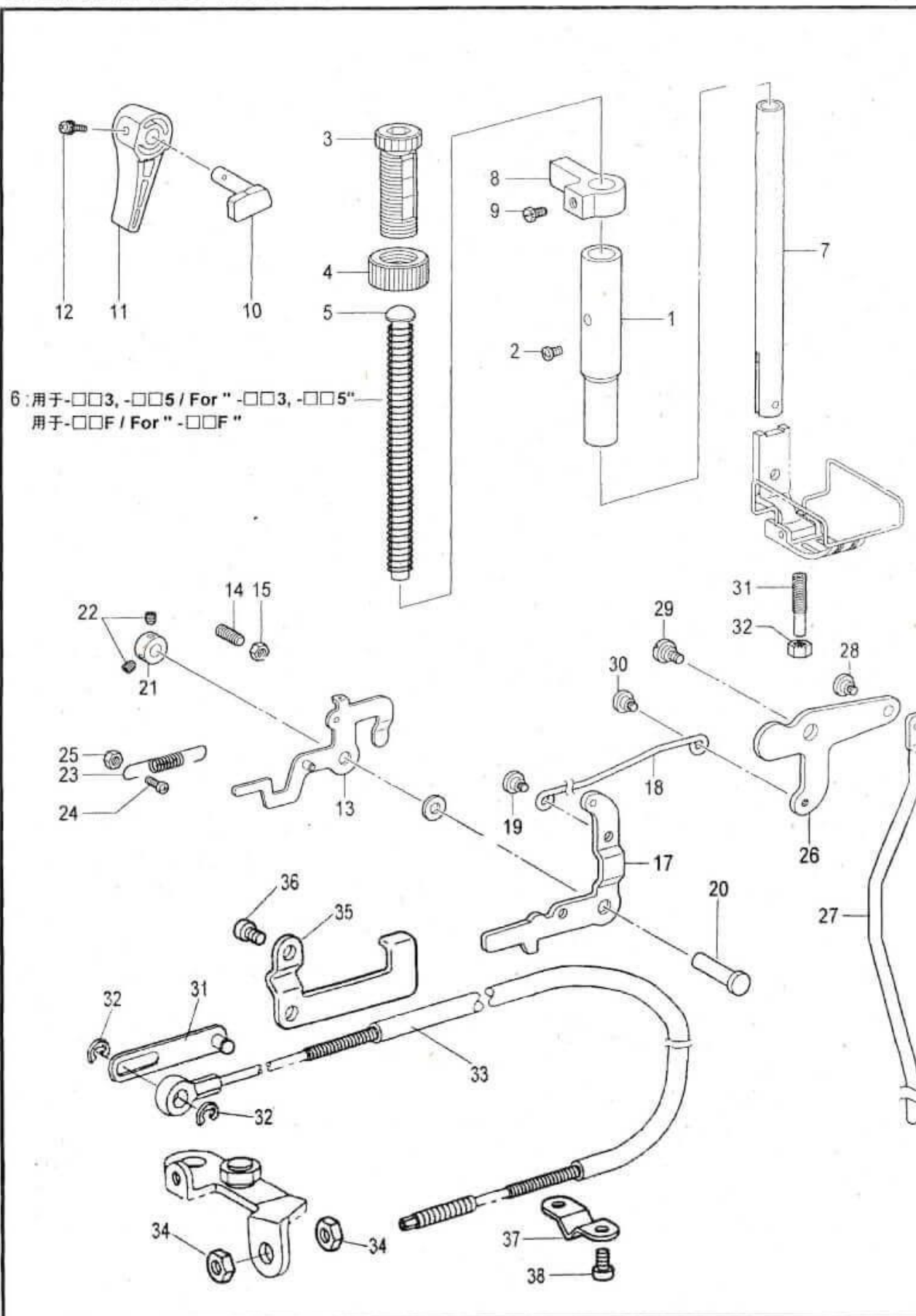
D. 针杆切换操作装置 / Needle bar flip-up mechanism



D.针杆切换装置/Needle bar flipup mechanism

序号 R ef.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□3	□□5	□□F	
1	SA4402001	指示板组件	Indication plate assy	1	1		
2	104833001	橡皮塞4.3	Rubber cap,4.3	2	2		
3	SA5336001	指示板盖	Holder plate cover	1	1		
4	062501016	螺钉M5 × 10	Screw pan M5 × 10	2	2		
5	SA4404001	压杆	Push lever	1	1		
6	SA4441001	段螺钉M4	Shoulder screw,M4	2	2		
7	SA4405001	压杆板	Plate,push lever	1	1		
8	062350516	螺钉 M3.5 × 5	Screw pan M3.5 × 5	2	2		
9	SA5333001	弹簧	Spring	1	1		
10	SA4406001	定位杆轴组件	Stop lever shaft assy	1	1		
11	047301842	弹簧销AW3 × 18	Pin spring roll aw3	1	1		
12	SA4408001	螺栓L	Stud,L	1	1		
13	SA4409001	螺栓S	Stud,S	1	1		
14	SA4411101	切换指示板	Flipup holder plate	1	1		
15	S18964001	切换指示标签	Label	1	1		
16	062500816	螺钉M5 × 8	Screw pan M5 × 8	2	2		
17	SA4412001	轴承导向套	Ball guide bush	1	1		
18	150820001	弹簧	Spring	1	1		
19	071063550	钢球1/4	Bearing ball,1/4	1	1		
20	SA4413001	轴臂	Arm,lever shaft	1	1		
21	062501416	螺钉M5 × 14	Screw pan M5 × 14	1	1		
22	S23773001	螺钉M4	Shoulder screw,M4	1	1		
23	SA4414001	弹簧	Spring	2	2		
24	SA4415001	滑轴架	Slide shaft bracket	1	1		
25	062500816	螺钉M5 × 8	Screw pan M5 × 8	2	2		
26	S07588101	滑动轴	Slide shaft	1	1		
27	SA4416001	支架板	Support plate,slide shaft	1	1		
28	149863001	弹簧	Spring,plate	2	2		
29	SA4417001	紧圈	Set screw collar	3	3		
30	014400432	螺钉M4 × 4	Set screw,socket(CP)M4 × 4	5	5		
31	SA4418001	导向螺钉	Guide screw	1	1		

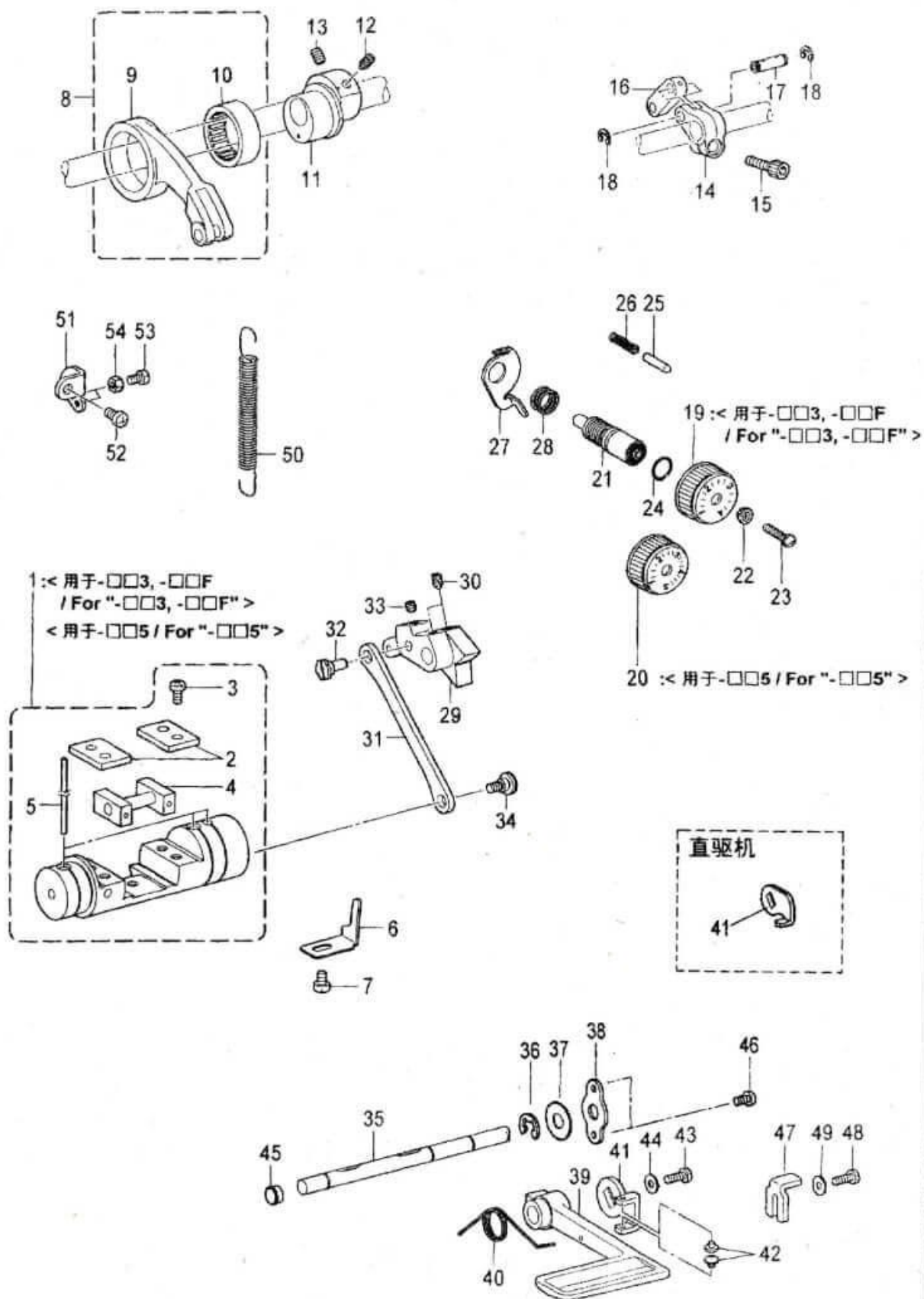
E. 压脚装置 / Presser foot mechanism



E.压脚装置/Presser foot mechanism

序号 Ref.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□3	□□5	□□F	
1	SA2495001	压杆轴套	Presser bar bush	1	1	1	
2	062500816	螺钉M5×8	Screw,pan M5×8	1	1	1	
3	SA1174001	调节螺栓 M14	Presser adjusting screw,M14	1	1	1	
4	SA1175001	调节螺母 M14	Presser adjusting nut	1	1	1	
5	141208001	弹簧导杆	Spring guide	1	1	1	
6	S07346101	压紧弹簧	Presser bar spring,5	1	1		
6	S16196001	压紧弹簧	Presser bar spring,F			1	
7	SA2496001	压紧杆	Presser bar	1	1	1	
8	SA2498001	压杆抱箍	Guide bracket,PBAR	1	1	1	
9	S25289001	螺栓M6×10	Bolt,socket M6×10	1	1	1	
10	SA2499001	压杆提升曲柄	Presser bar lifting crank	1	1	1	
11	S31006001	抬压脚扳手	Lifting lever	1	1	1	
12	S39051001	螺钉(带垫圈)M3.5×12	Screw,pan(s/p w) M3.5×12	1	1	1	
13	S07353001	松线板组件	Tension release plate assy	1	1	1	
	S07351001	松线板组件	Tension release plate assy	1	1	1	直驱/Direct drive
14	012061832	螺钉M6×18	Set screw,socket(f)M6×18	1	1	1	
15	SA2500001	螺母M6	Nut 3 M6	1	1	1	
17	SA2501001	抬压脚连杆	Presser bar lifting lever	1	1	1	
18	SA2502001	膝控连杆	Knee lifter connecting rod	1	1	1	
19	SA1179001	段螺钉M5	Shoulder screw,M5	1	1	1	
20	S07349001	压紧杆提升杠杆销	Pbar lifting lever shaft	1	1	1	
21	SA2504001	紧圈	Set screw,collar	1	1	1	
22	012500536	螺钉M5×5	Set screw,socket(f)M5×5	2	2	2	
23	S07355051	弹簧	Spring e × tension	1	1	1	
24	062501416	螺钉M5×14	Screw,pan M5×14	1	1	1	
25	021500106	六角螺母M5	Nut 1 M5	1	1	1	
26	SA2506001	膝控提升杠杆	Knee lifter lever	1	1	1	
27	SA2507001	膝控提升杆	Knee lifter bar	1	1	1	
28	SA1179001	段螺钉M5	Shoulder screw,M5	1	1	1	
29	SA2165001	段螺钉M6	Shoulder screw,M6	1	1	1	
30	SA1179001	段螺钉M5	Shoulder screw,M5	1	1	1	
31	SA4149001	调整螺钉6	adjusting screw,6	1	1	1	
32	021060306	六角螺母M6	Nut 3 M6	1	1	1	
33	S07350001	垫圈	Washer,plain	1	1	1	
34	S07529001	松线连杆组件	Thread release connecting rod assy	1	1	1	直驱/Direct drive
35	048030342	挡圈E3	Retaining ring ,E6	2	2	2	直驱/Direct drive
36	SA2677001	松线电线	Tension release wire	1	1	1	直驱/Direct drive
37	110161006	螺母SM4,76	Nut SM4,76	1	1	1	直驱/Direct drive
38	SA2678001	松线电线夹	Wire holder	1	1	1	直驱/Direct drive
39	062500816	螺钉M5×8	Screw,pan M5×8	2	2	2	直驱/Direct drive
40	SA2679001	松线电线夹	Wire holder	1	1	1	直驱/Direct drive
41	062060816	螺钉M6×8	Screw,pan M6×8	2	2	2	直驱/Direct drive

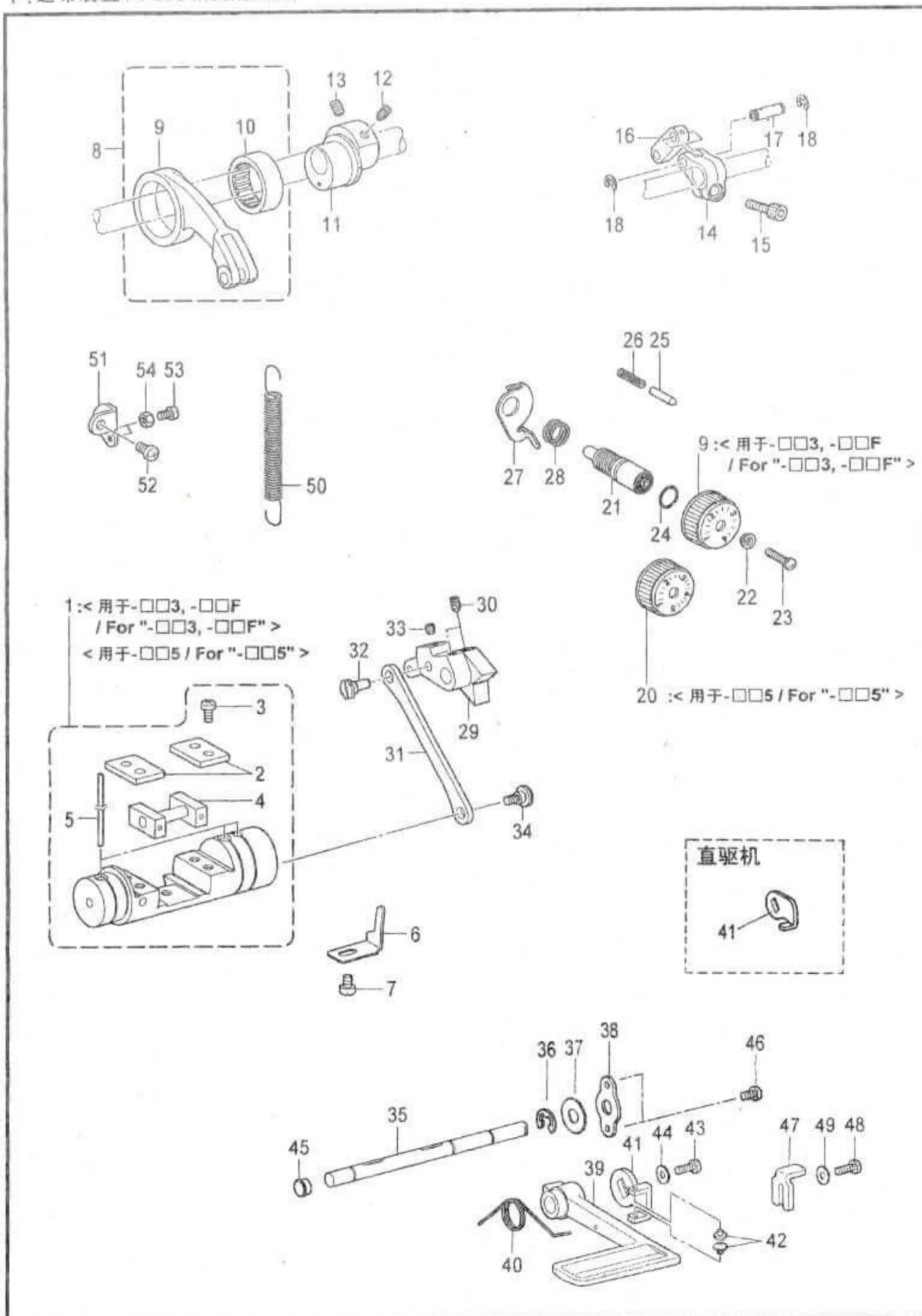
F. 送布装置 / Feed mechanism



F.送布装置/Feed mechanism

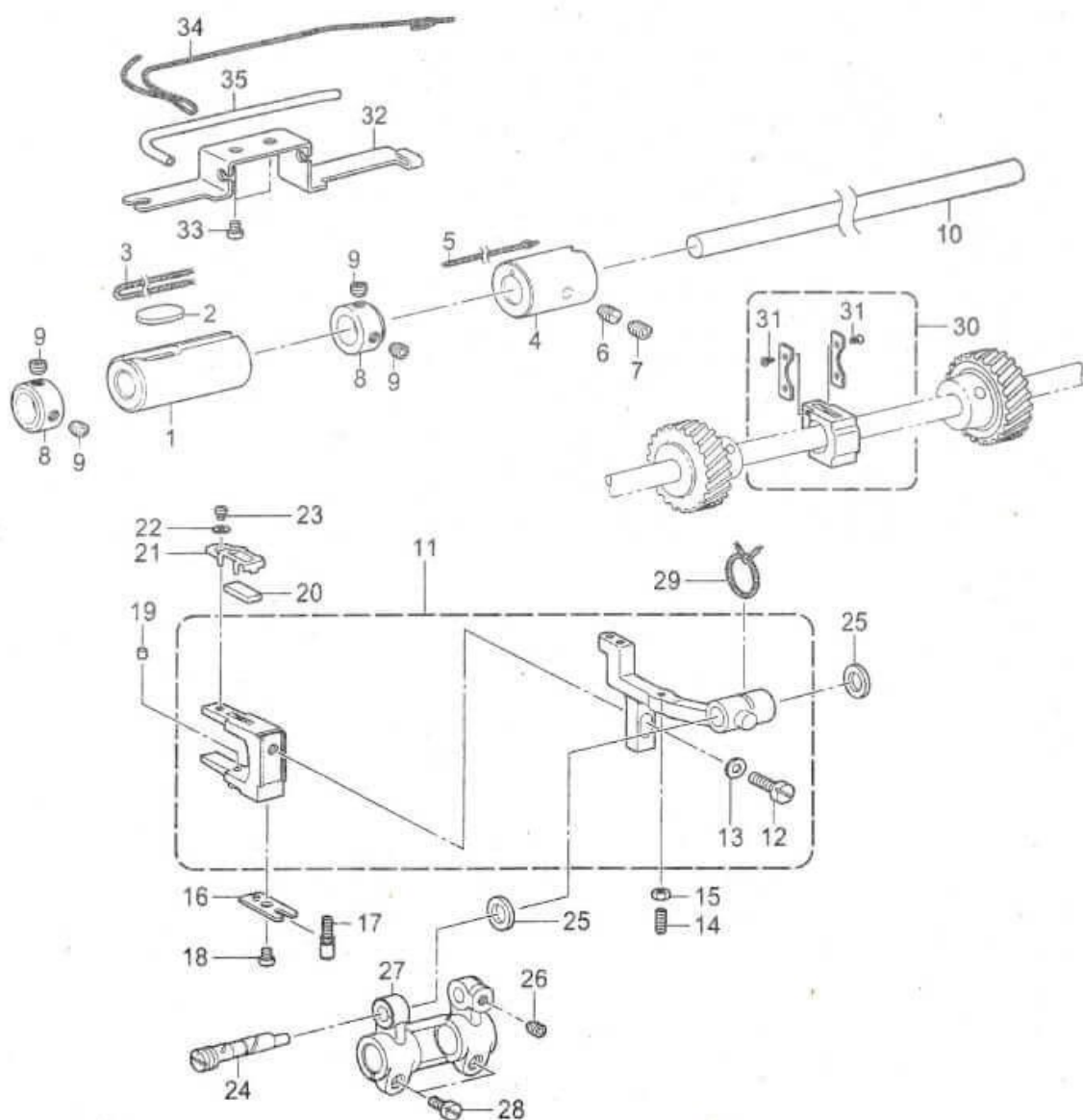
序号 Ref.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□3	□□S	□□F	
1	SA3062001	切换器11组件	Feed regulator assy,11	1		1	420/420D-4 □□
	SA3062001	切换器11组件	Feed regulator assy,11	1	1	1	720/8750
1	SA2509001	切换器组件	Feed regulator assy		1		8420/842D-4□ □
	SA2509001	切换器组件	Feed regulator assy	1	1		8450
2	SA2511001	滑块导向	Guide plate	2	2	2	
3	062501016	螺钉M5×10	Screw,pan M5×10	4	4	4	
4	SA2512001	滑块组件	Slide block assy	1	1	1	
5	SA2515001	油毡	Felt	3	3	3	
6	SA2516001	切换器定位	Stopper	1	1	1	
7	062060816	螺钉M6×8	Screw,pan M6×8	1	1	1	
8	143611201	送布连杆组件	Frocker connecting rod assy	1	1	1	
9	143612100	送布大连杆	Feed rocker connecting rod	1	1	1	
10	118954000	滚针轴承	Needle bearing	1	1	1	
11	SA2518001	水平偏心轮5	Level feed eccentric wheel 5	1	1	1	8420/8450
	SA2793001	水平偏心轮7	Level feed eccentric wheel 7	1	1	1	720/8750
12	SA2585001	固定螺钉M6×10	Set screw,socket(ft)M6	1	1	1	
13	S25236001	螺钉M6×10	Set screw,socket(ft)M6×10	1	1	1	
14	SA2521001	水平送料臂5	Feed rocker arm5	1	1	1	8420/8450
	SA2713001	水平送料臂7	Feed rocker arm7	1	1	1	8720/8750
15	018062032	螺栓M6×20	Bolt,socket M6×20	1	1	1	
16	143613051	送布小连杆	Link	1	1	1	
17	143616001	送布曲柄轴	Shaft	1	1	1	
18	048060342	挡圈E6	Retaining ring ,E6	2	2	2	
19	S38422001	针距标盘4	Stitch length dial,4	1		1	8420
20	S38427001	针距标盘5	Stitch length dial,5		1		8420
	S38427001	针距标盘5	Stitch length dial,5	1	1		8450
	S38428001	针距标盘7	Stitch length dial,7	1	1	1	8720/8750
21	SA3056001	调节螺栓	Feed regulating stud	1	1	1	
22	142746002	针距标盘套	Feed regulating supporter	1	1	1	
23	129458102	螺钉SM4.76	Screw,SM4.76	1	1	1	
24	108549001	O形圈	O Ring	1	1	1	
25	S50098101	定位销	Positioning pin	1	1	1	
26	100328001	止动销弹簧	Notch spring	1	1	1	
27	SA2523001	标盘锁杆	Dial lock lever	1	1	1	
28	S39830101	弹簧	Spring	1	1	1	
29	SA2525001	送料调节器 5	Feed regulator 5	1	1	1	8420/8450
	SA2796001	送料调节器 7	Feed regulator 7	1	1	1	8720/8750
30	016061031	螺钉M6×10	Set screw,socket(en)M6×10	2	2	2	
31	SA2526001	切换器连杆	Connecting rod	1	1	1	
32	SA2527001	偏心轴	Eccentric shaft	1	1	1	
33	012060636	螺钉M6×6	Set screw,socket(ft)M6×6	1	1	1	
34	SA2528101	段螺钉M6	Shoulder screw,M6	1	1	1	
35	SA2529101	倒缝手柄轴 TR	Shaft,Rlever TR	1	1	1	
36	048080342	挡圈E8	Retamining ring ,E8	1	1	1	
37	025100132	平垫圈S10	Washer,plain S 10	1	1	1	
38	SA2530001	垫片	Spacer	1	1	1	
39	S07374109	倒缝扳手	Reverse stitching lever	1	1	1	

F. 送布装置 / Feed mechanism

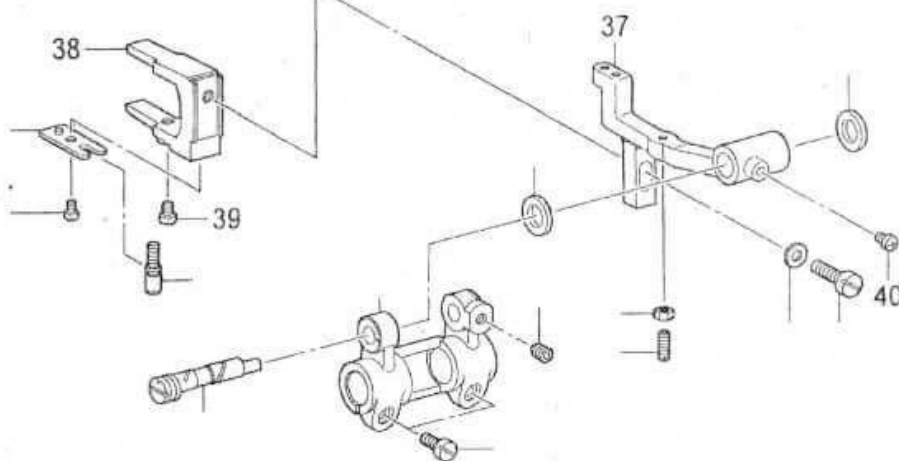


39	S07374109	倒缝扳手	Reverse stitching lever	1	1	1	
40	SA2531001	弹簧	Spring	1	1	1	
41	SA3067001	手柄导向	Lever guide	1	1	1	
42	S48367000	导向橡皮	Rubber	2	2	2	
43	SA6592001	螺钉M5	Screw,pan M5	1	1	1	
44	025050336	平垫圈L5	Washer,plain L5	1	1	1	
45	104821001	橡皮塞10.5	Rubber cap,10.5	1	1	1	
46	062500816	螺钉M5 × 8	Screw,pan M5 × 8	2	2	2	
47	SA2532001	定位器	Stooper	1	1	1	
48	062501216	螺钉M5 × 12	Screw,pan M5 × 12	1	1	1	
49	025050236	平垫圈M5	Washer,plain M5	1	1	1	
50	S07376001	调节器弹簧	Feed regulator spring	1	1	1	
51	SA2533001	弹簧挂钩	Spring hook	1	1	1	
52	062060816	螺钉M6 × 8	Screw,pan M6 × 8	1	1	1	
53	062501216	螺钉M5 × 12	Screw,pan M5 × 12	1	1	1	
54	021500106	六角螺母M5	Nut 1 M5	1	1	1	
55	SA2541001	倒缝扳手板	Reverse stitching lever plate	1	1	1	直驱/Direct drive

H. 送布轴装置 / Feed shaft mechanism



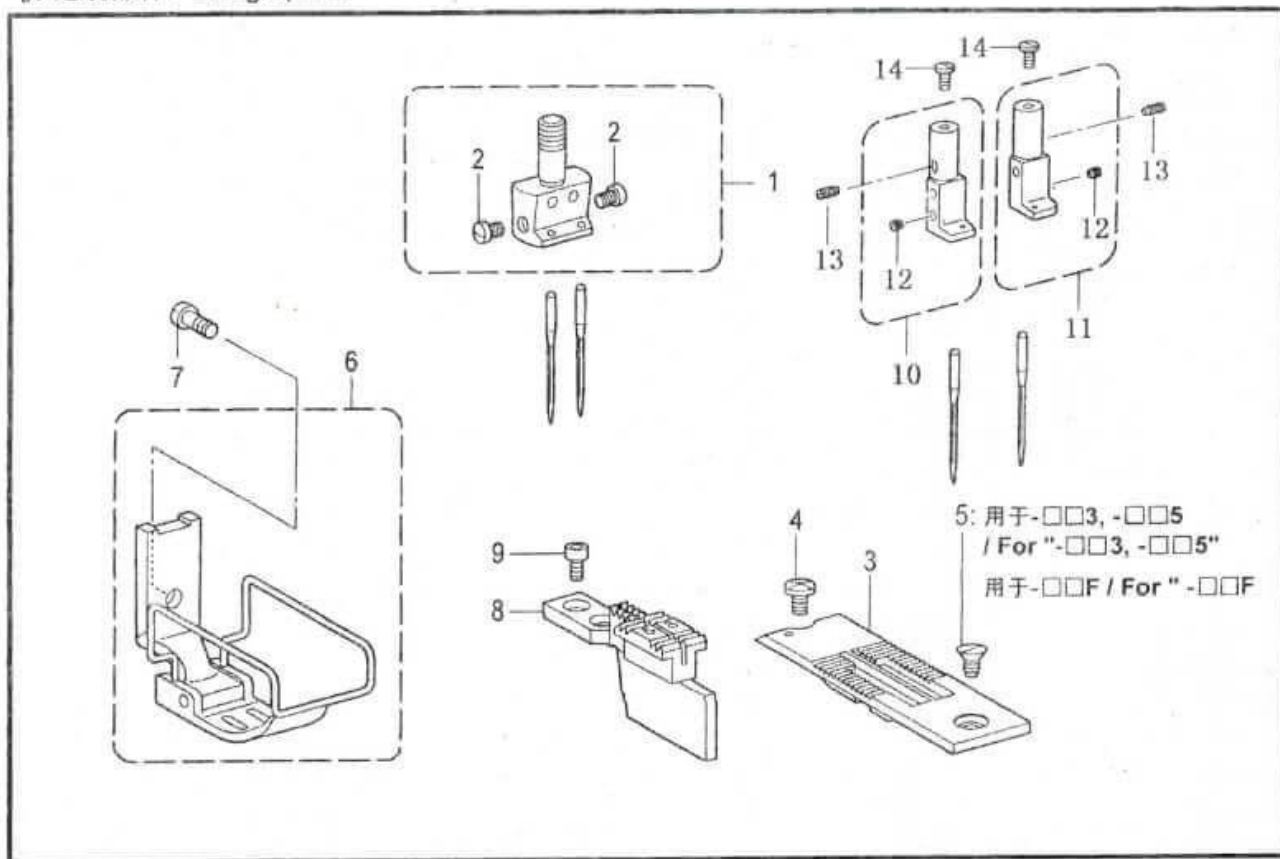
" 选购件 / OPTION PARTS " < 无油型规格 / Dry Type >



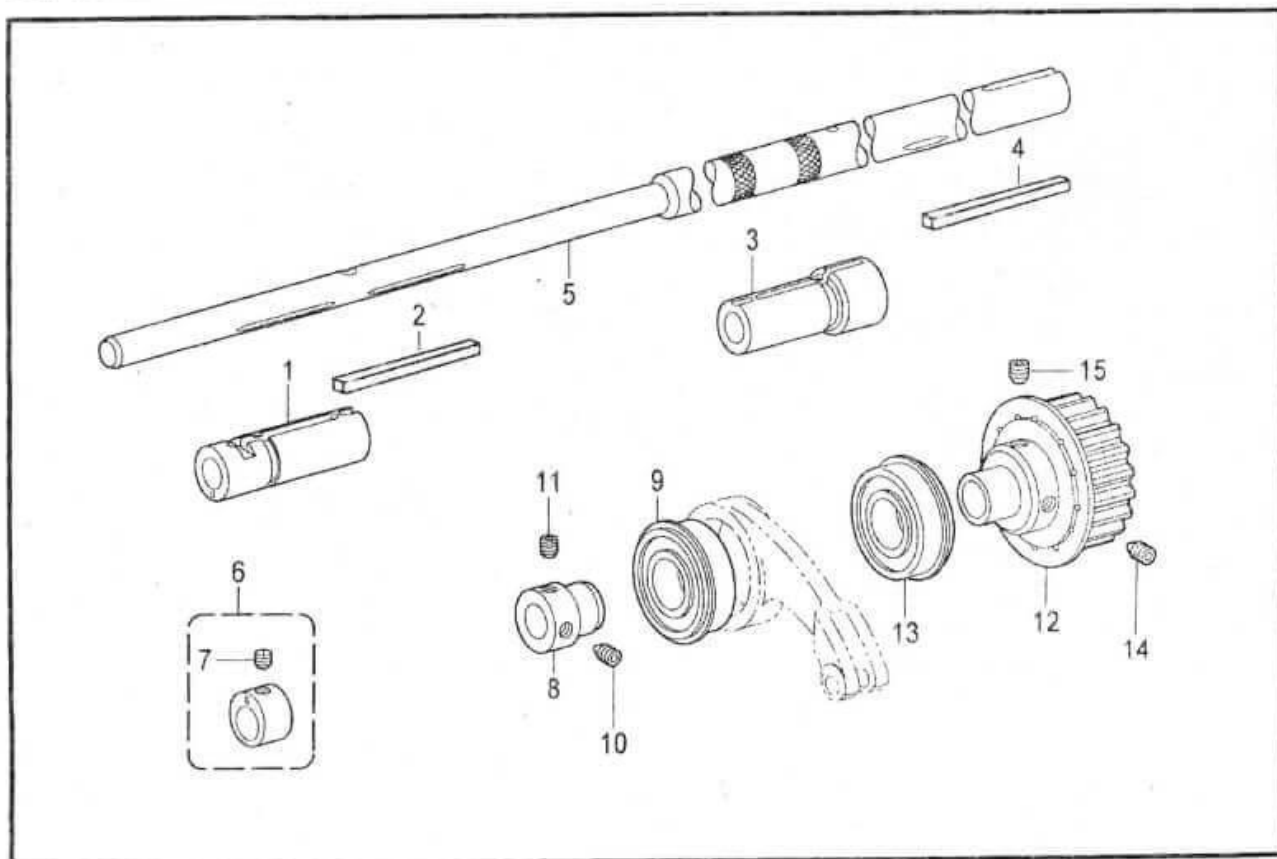
H.送布轴装置/Feed shaft mechanism

序号 Ref.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□3	□□5	□□F	
1	SA3855001	送布轴套L	Bush,L:rocker shaft	1	1	1	
2	SA3965001	油毡	Felt	1	1	1	
3	SA4028001	油线 4×4 L=220	Wick,4×4 L=220	1	1	1	
4	SA2543001	送布轴套R	Feed rocker shaft bush,R	1	1	1	
5	108802001	油线 4×4 L=250	Wick,4×4 L=250	1	1	1	
6	SA2544001	螺钉M6	Set screw M6	1	1	1	
7	012060636	螺钉M6×6	Set screw,socket(ft)M6×6	1	1	1	
8	SA2546001	紧圈	Set screw collar	2	2	2	
9	S23651001	固定螺钉M6×6	Set screw,socket(ft)M6×6	4	4	4	
10	SA3840001	送布轴	Feed rocker shaft	1	1	1	
11		送布台叉组件 ST	Feed bar st fork assy	1	1	1	
	SA6150101	送布台叉组件 TR	Feed bar tr fork assy	1	1	1	直驱和大旋梭/Direct drive and Large hook
12	SA2927001	螺钉 M6×14	Screw, M6×14	1	1	1	
13	025060132	平垫圈S6	Washer,plain S 6	1	1	1	
14	SA2566001	螺钉M3.5	Set screw M3.5	1	1	1	
15	021350106	螺母M3.5	Nut 1 M3.5	1	1	1	
16	SA2553001	开叉板	Forked plate	1	1	1	
17	SA2554001	调整螺栓	Adusting screw,height	1	1	1	
18	062400616	螺钉M4×6	Screw,pan M4×6	1	1	1	
19	SA3990001	油毡	Flat	1	1	1	
20	SA3887001	油毡	Flat	1	1	1	
21	SA3888001	油毡压架	Flat holder	1	1	1	
22	025030132	平垫圈S3	Washer,plain S 3	1	1	1	
23	062300416	螺钉M3×4	Screw,pan M3×4	1	1	1	
24	SA2550001	送布台安装轴	Feed bar shaft	1	1	1	
25	SA2551001	轴向垫圈	Thrust ring	2	2	2	
26	012060636	螺钉M6×6	Set screw,socket(ft)M6×6	1	1	1	
27	SA2555001	水平送布台臂	Feed rocker base arm	1	1	1	
28	SA2928001	螺钉M5×12	Screw,M5×12	2	2	2	
29	SA4025001	油线 4×4 L=180	Wick,4×4 L=180	1	1	1	
30	SA2806001	角滑块组件	Feed bar slide block assy	1	1	1	
31	W01519001	螺钉(#0)M2×4	Screw,flat #0 M2×4	4	4	4	
32	SA4009001	油线支架	Wick support	1	1	1	
33	062400616	螺钉M4×6	Screw,pan M4×6	2	2	2	
34	SA2724001	油线 L=400	Wick,L=400	1	1	1	
35	SA4011001	维尼龙油管 L=100	Oil tube,L=100	1	1	1	
37	SA2754001	送布台ST	Feed bar,st	1	1	1	选购件用于无油型,option parts for dry type
38	SA2552001	送布台叉	Feed bar fork	1	1	1	
39	062500816	螺钉M5×8	Screw,pan M5×8	1	1	1	
40	062500616	螺钉M5×6	Screw,pan M5×6	1	1	1	

J. 定规部件 / Gauge parts



L. 下轴装置 / Lower shaft mechanism



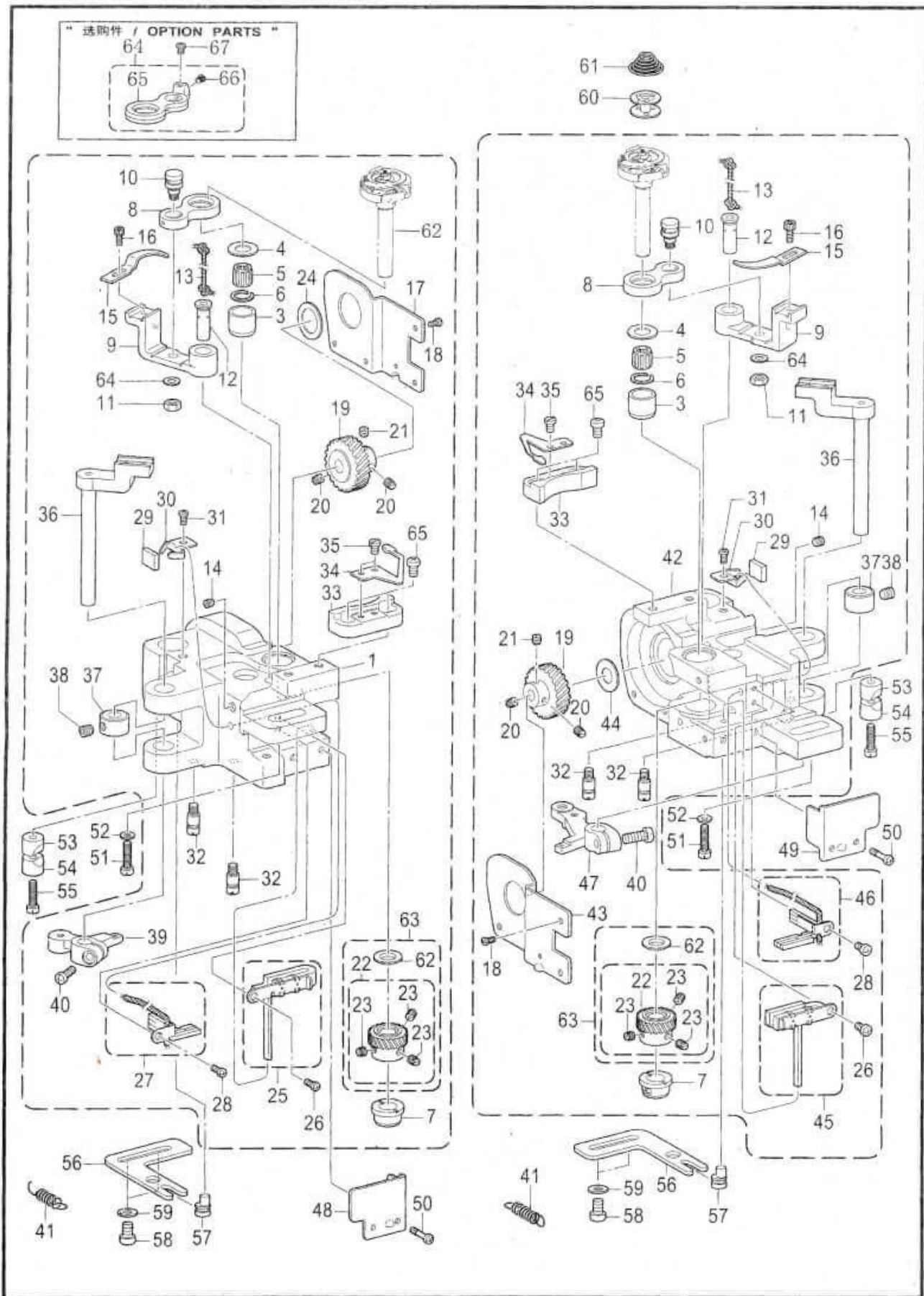
J. 定规部件/Gauge parts

序号 Ref.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□3	□□5	□□F	
1		针夹组件	Needle clamp assy	1	1	1	8□20□
2	116323001	螺钉SM3.57	Screw,SM3.57	2	2	2	8420/8720
3		针板	Needle plate	1	1	1	
4	S11244001	螺钉SM4.37	Screw,SM4.37	1	1	1	
5	100032004	平头螺钉SM4.3740×8	Screw,flat SM4.3740×8	1	1	1	
6		压脚组件	Presser foot assy	1	1	1	
7	113050001	螺钉SM3.57	Screw,SM3.57	1	1	1	
8		送布牙	Feed dog	1	1	1	
9	S07494001	螺钉SM3.18×7	Screw,w/socket SM3.18×7	2	2	2	
10		针夹组件L	Needle clamp assy,L	1	1		8□ 0□
11		针夹组件R	Needle clamp assy,R	1	1		8□ 0□
12	013660412	固定螺钉SM4.3740×4	Screw,SM4.3740×4	2	2		8450/8750
13	S13085001	螺钉SM3.18	Set screw SM3.18	2	2		8450/8750
14	149831101	螺钉SM3.18	Set screw SM3.18	2	2		8450/8750

L. 下轴装置/Lower shaft mechanism

序号 Ref.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□3	□□5	□□F	
1	SA3890001	旋梭基座轴套L	Rotary hook base bush,L	1	1	1	
2	SA4585001	油毡	Felt	1	1	1	
3	SA3891001	旋梭基座轴套R	Rotary hook base bush,R	1	1	1	
4	SA4585001	油毡	Felt	1	1	1	
5	SA2571001	下轴	Lower shaft	1	1	1	
6	SA2759001	抬压凸轮组件	F-lifting eccentric wheel assy	1	1	1	
	SA2580101	上下偏心轮组件	F-lifting eccentric wheel assy	1	1		直驱/Direct drive
7	SA2575001	螺钉M6	Set screw,(ft)M6	1	1	1	
8	SA2584001	轴承套	Ball bearing bush	1	1	1	
9	072600480	球轴承 6004ZZNR	Ball bearing,thrust 6004ZZNR	1	1	1	
10	SA2585001	固定螺钉M6×10	Set screw,socket(ft)M6×10	1	1	1	
11	S25236001	螺钉M6×10	Set screw,socket(ft)M6×10	1	1	1	
12	SA2587001	同步轮D组件	Timing pulley assy,D	1	1	1	
13	158115001	球轴承 6204ZZNR	Ball bearing,thrust 6204ZZNR	1	1	1	
14	SA2585001	固定螺钉M6×10	Set screw,socket(ft)M6×10	1	1	1	
15	SA4213001	固定螺钉M6×10	Set screw,socket(CP)M6×10	1	1	1	

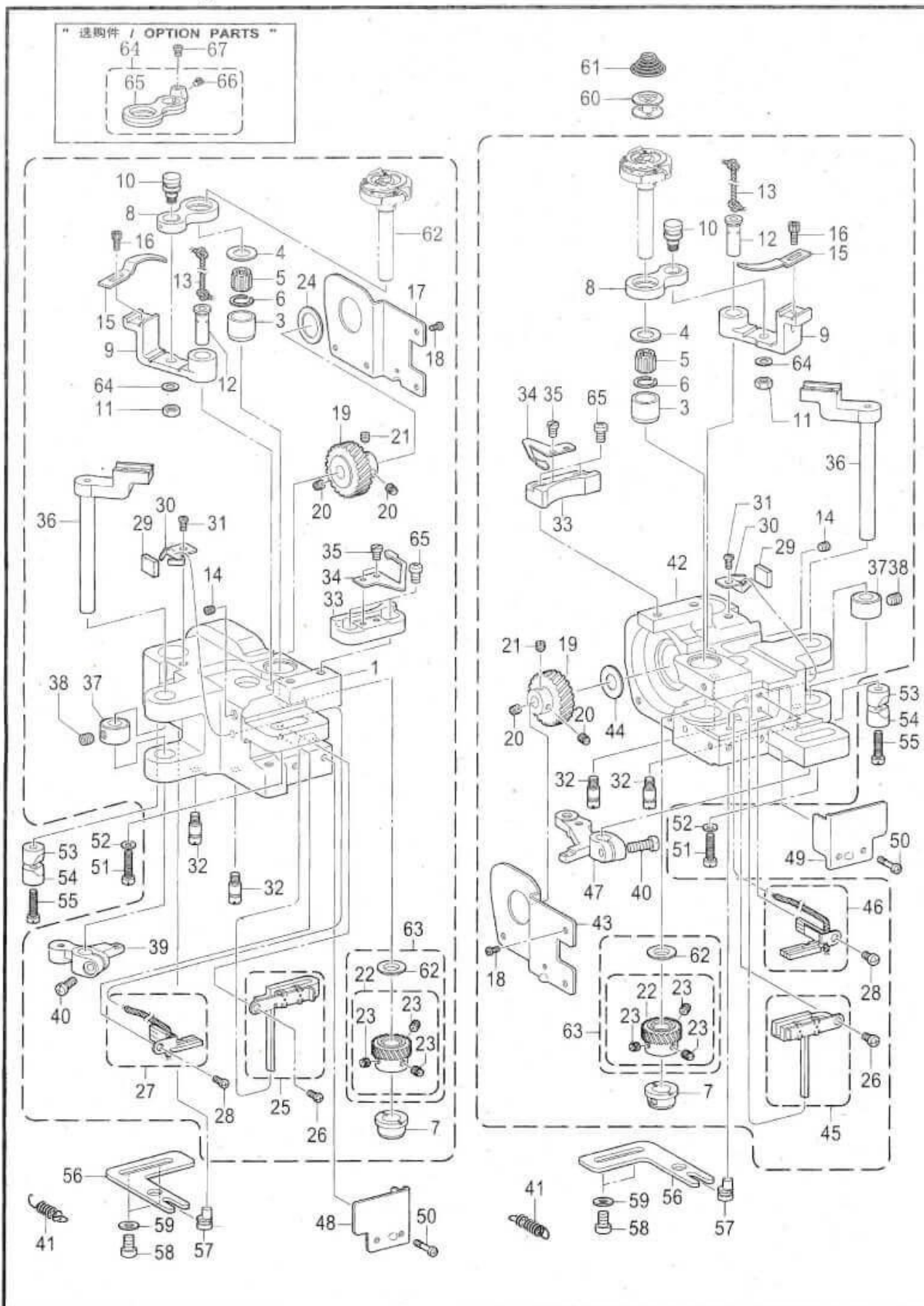
K1. 旋梭装置 / Rotary hook mechanism



K1.旋梭装置/Rotary hook mechanism

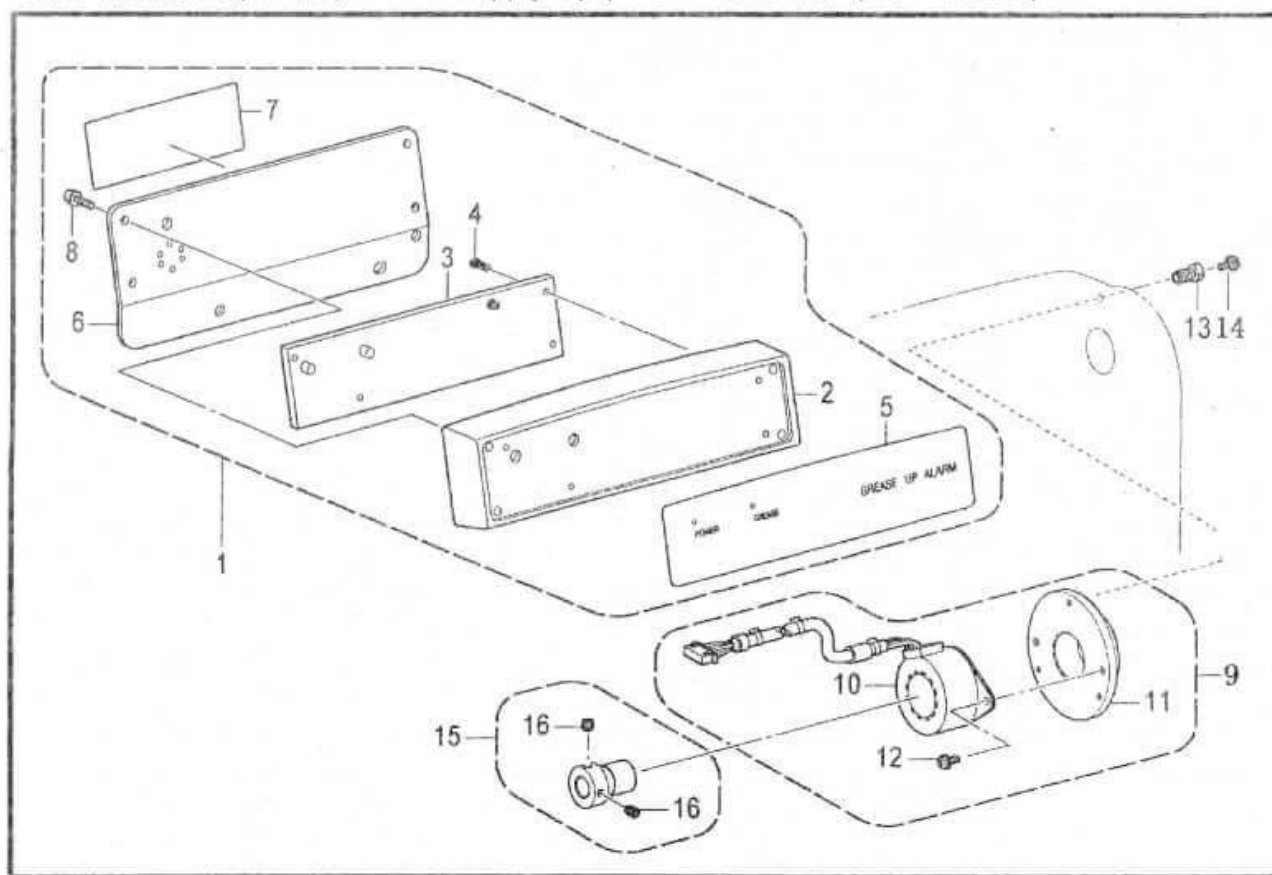
序号 Ref.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□3	□□5	□□F	
1	SA2955001	梭架(左)	Rotary hook base(L)	1	1	1	8420/ 8450
	SA2959001	梭架(左)	Rotary hook base(L)	1	1	1	8720/8750
	SA4435201	梭架(左)	Rotary hook base(L)	1	1	1	直驱/Direct drive
3	SA4029001	旋梭轴套U	Rotary hook shaft bush	2	2	2	
4	S06260001	轴向垫圈A 1.2MM	Thrust ring,A:1.2MM<t=1.2>	2	2	2	
4	SA4038001	轴向垫圈1.0MM	Thrust ring<t=1.0>	2	2	2	
4	S09261001	轴向垫圈B 1.4MM	Thrust ring,B:1.4MM<t=1.4>	2	2	2	
4	SA4444001	轴向垫圈B 0.8MM	Thrust ring,0.8MM<t=0.8>	2	2	2	
5	S07420000	滚针轴承	Needle bearing	2	2	2	
6	S07419001	止动圈	Retaining ring	2	2	2	
7	SA2557001	旋梭轴套D	Rotary hook shaft bush	2	2	2	
8	SA3856001	分线钩连杆	Opener link	2	2	2	
9	SA3859001	分线钩杆	Opener lever	2	2	2	
10	SA2560001	分线钩连杆轴	Shaft,Olink	2	2	2	
64	025710132	平垫圈S4.76	Washer,plain S 4.76	2	2	2	
11	021500316	六角螺母M5	Nut 1 M5	2	2	2	
12	SA3889101	分线钩杆短轴	Olever shaft	2	2	2	
13	SA4026001	油线 4 × 4 L=100	Wick,4 × 4 L=100	2	2	2	
14	012500536	螺钉M5 × 5	Set screw,socket(ft)M5 × 5	2	2	2	
15	S38212001	分线钩	Opener	2	2	2	
16	154965001	螺钉SM3.57 × 8	Bolt,socket SM3.57 × 8	2	2	2	
17	SA2562101	旋梭基座盖L	Rotary hook base cover,L	2	2	2	
18	062300612	螺钉M3 × 6	Screw,pan M3 × 6	8	8	8	
19		螺旋齿轮(大)	Spiral gear	2	2	2	
20	SA2574001	螺钉M6	Set screw,(ft)M6	4	4	4	
21	SA2575001	螺钉M6	Set screw,(ft)M6	2	2	2	
22		螺旋齿轮(小)	Pinion gear	2	2	2	
23	SA2574001	螺钉M6	Set screw,(ft)M6	6	6	6	
24	SA3054001	垫圈 L	Thrust washer,L	1	1	1	
25	SA6424101	油毡组件UL	Felt UL assy	1	1	1	
26	SA3893001	油毡	Felt	2	2	2	
26	062400616	螺钉M4 × 6	Screw,pan M4 × 6	2	2	2	
27	SA4044001	油毡组件DL	Felt DL assy	1	1	1	
28	062400616	螺钉M4 × 6	Screw,pan M4 × 6	2	2	2	
29	SA3964001	油毡	Felt	2	2	2	
29	SA4012001	油毡	Felt	2	2	2	
30	SA3894001	油毡架	Felt support	2	2	2	
31	062400616	螺钉M4 × 6	Screw,pan M4 × 6	2	2	2	
42	SA3956001	梭架(右)	Rotary hook base(R)	1	1	1	8420/8450
	SA3960001	梭架(右)	Rotary hook base(R)	1	1	1	8720/8750
	SA4436201	梭架(右)	Rotary hook base(R)	1	1	1	直驱/Direct drive
43	SA2563101	旋梭基座盖R	Rotary hook base cover,R	1	1	1	
44	SA2579001	垫圈	Specer	1	1	1	
45	SA3914001	油毡架UR	Felt support UR	1	1	1	
46	SA3963001	油毡架DR	Felt support DR	1	1	1	
48	SA3988001	旋梭基座盖FL	Rotary hook base cover,FL	1	1	1	
49	SA3916001	旋梭基座盖FR	Rotary hook base cover,FR	1	1	1	
50	SA6417001	螺钉M4 × 12	Screw, M4 × 12	4	4	4	

K1. 旋梭装置 / Rotary hook mechanism



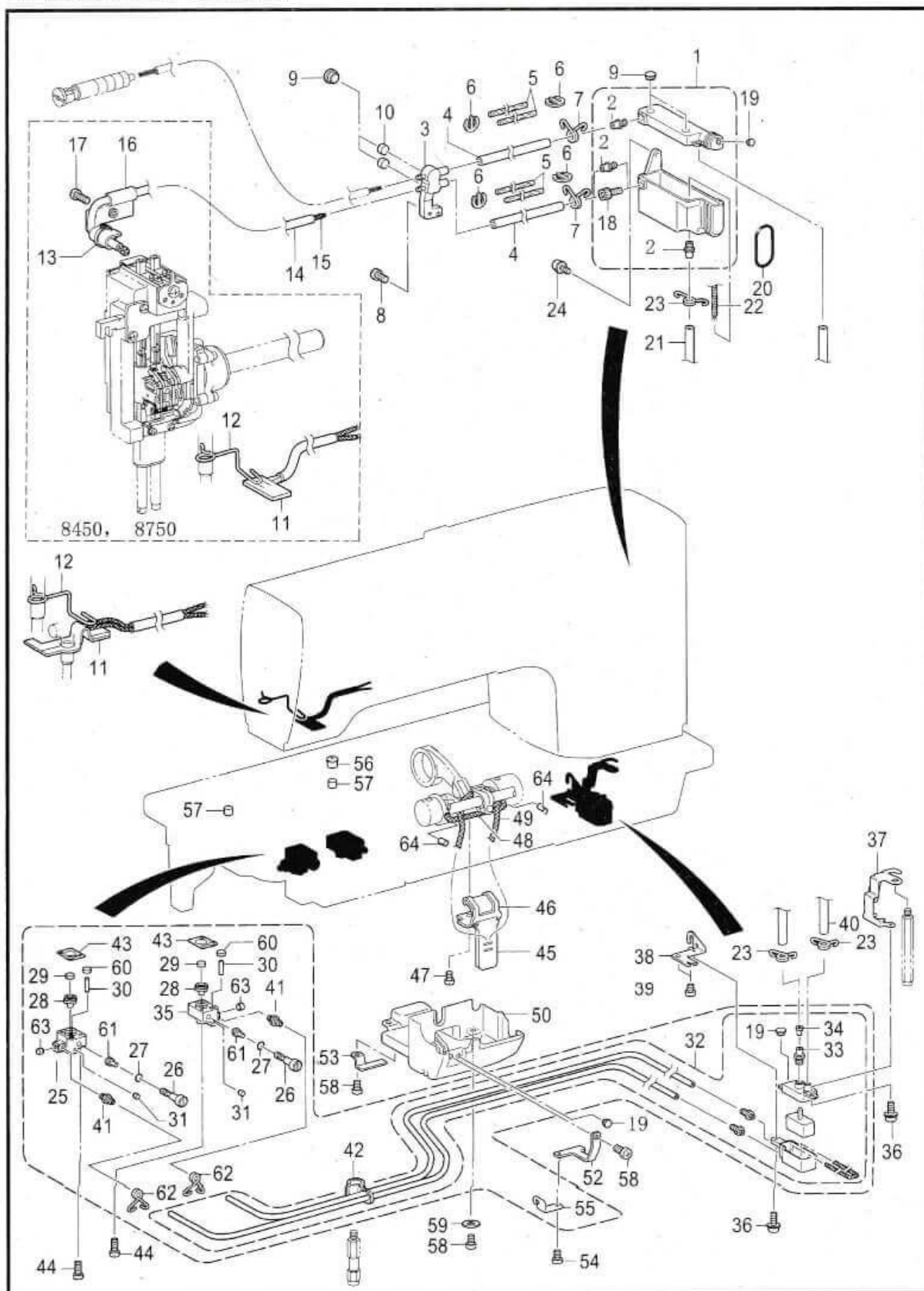
51	SA2556001	螺钉M6×25	Screw, M6×25	2	2	2	
55	SA2556001	螺钉M6×25	Screw, M6×25	2	2	2	
52	115947001	垫圈6.35	Washer, plain 6.35	2	2	2	
53	SA2722001	套管A	Pinch sleeve A	2	2	2	
54	SA2565001	套管B	Pinch sleeve B	2	2	2	
56	SA2567001	调节板	Needlw upper positioning plate	2	2	2	
57	SA2568001	调节轴	Needlw upper positioning shaft	2	2	2	
58	062061016	螺钉M6×10	Screw, pan M6×10	4	4	4	
59	025060136	平垫圈S6	Washer, plain S 6	4	4	4	
60	S01928151	梭芯	Bobbin	2	2	2	8420/8450
	S07741001	梭芯	Bobbin	2	2		8720/8750
61		梭心簧	Bobbin Spring	2	2		8420D/8450D
		梭心簧	Bobbin Spring	2	2		8720/8750
		梭心簧	Bobbin Spring	2	2		8720D/8750D
62		旋梭组件	Rotary hook assy	2			8420-003
		旋梭组件	Rotary hook assy		2		8420-005
		旋梭组件	Rotary hook assy	2	2		8450
		旋梭组件	Rotary hook assy	2	2		8720
		旋梭组件	Rotary hook assy	2	2		8750
		旋梭组件	Rotary hook assy	2	2		8420D
		旋梭组件	Rotary hook assy	2	2		8450D
		旋梭组件	Rotary hook assy	2	2		8720D
		旋梭组件	Rotary hook assy	2	2		8750D
63		梭心套	Bobbin case assy	2	2		8450/8420
		梭心套	Bobbin case assy	2	2		8750
		梭心套	Bobbin case assy	2	2		8450D
		梭心套	Bobbin case assy	2	2		8720D
		梭心套	Bobbin case assy	2	2		8750D
32	SA2717001	定位螺钉	Stopper screw	4	4		直驱/Direct drive
33	SA2676001	动刀座	Movable knife bracket	2	2		直驱/Direct drive
34	S07525001	板弹簧	Bobbin thread holding spring	2	2		直驱/Direct drive
35	141544001	螺钉SM3.18×40 L=3	Screw SM3.18×40 L=3	4	4		直驱/Direct drive
36	SA3912001	动刀杆	Movable knife lever	2	2		直驱/Direct drive
37	SA2675001	紧圈	Set screw collar	2	2		直驱/Direct drive
38	S23651001	固定螺钉M6×6	Set screw M6×6	2	2		直驱/Direct drive
39	SA2671001	切线杠杆 L	Thread trimming lever L	1	1		直驱/Direct drive
47	SA2670001	切线杠杆 R	Thread trimming lever R	1	1		直驱/Direct drive
40	062501216	螺钉 M5×12	Screw, pan M5×12	2	2		直驱/Direct drive
41	SA2826001	弹簧	Spring	2			直驱/Direct drive
	SA4458001	弹簧B	SpringB		2		直驱/Direct drive
65	062400812	螺钉M4×8	Screw, M4×8	4	4		直驱/Direct drive
64	SA2827001	分线钩连杆组件	Opener link assy	2	2		选购件用于无油型, option parts for dry type
65	SA2558001	分线钩连杆	Opener link	2	2		
66	S58900000	螺钉M2	Screw, M2	2	2		
67	062400416	螺钉M4×4	Screw, pan M4×4	2	2		

O. 电气部品装置 (-□3□) / Power supply equipment mechanism (For "-□3□")



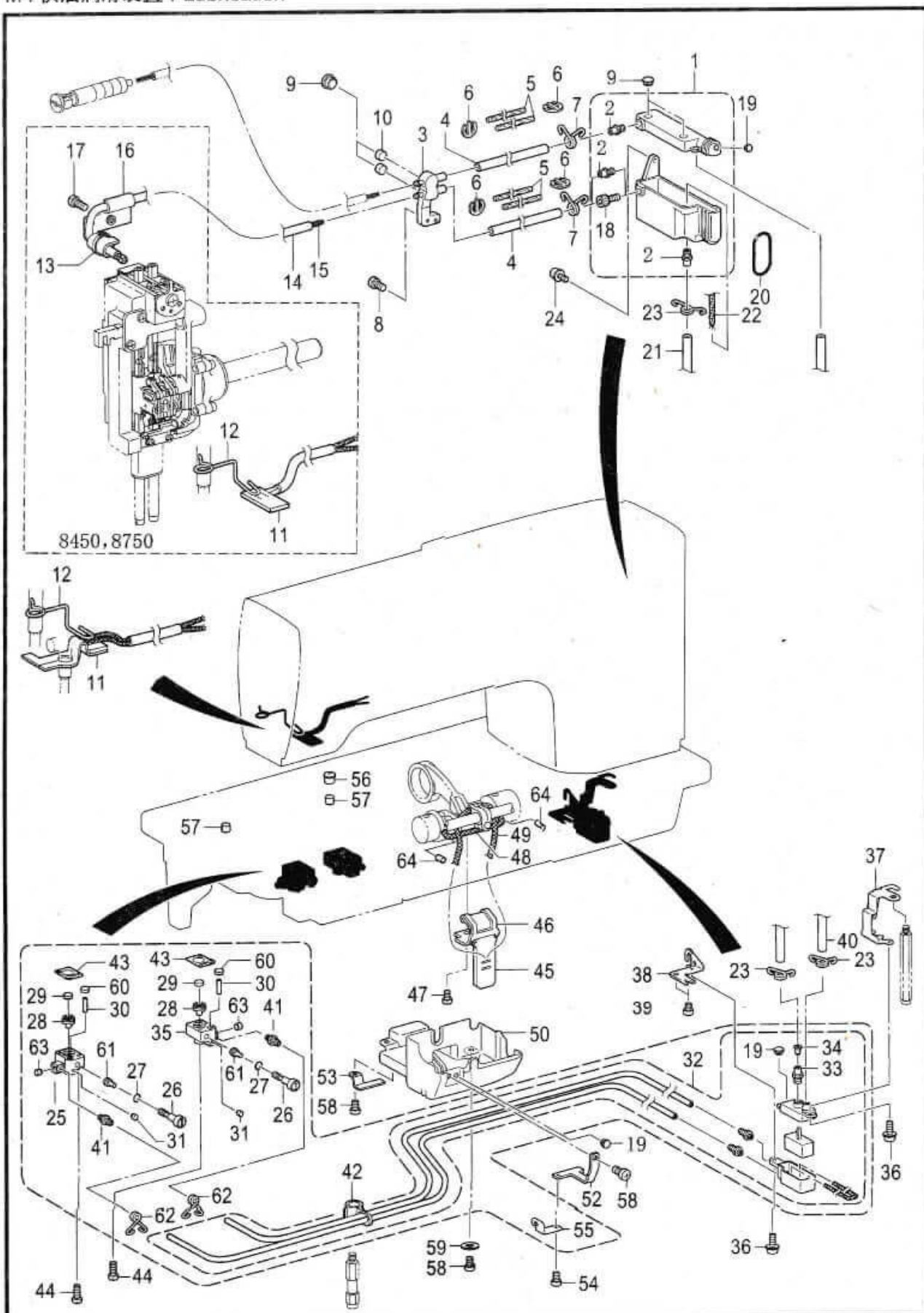
O.电气部品装置(□3□)/Power supply equipment mechanism (For "□3□")

序号 Ref.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□3	□□5	□□F	
1	J04352001	警报器组件	Alarm display assy	1	1	1	
2	J04353001	警报器盒	Alarm display case	1	1	1	
3	J04357001	警报器表示基板组件	Pcb assy,alarm display	1	1	1	
4	037300816	螺销M3×8	Tapping screw,pan v m3×8	4	4	4	
5	J04355001	警报器指示牌	Alarm lable	1	1	1	
6	J04354001	警报器安装架	Alarm display holder	1	1	1	
7	J04356001	警报器说明表	Reset label	1	1	1	
8	J04273001	螺栓(带垫圈)M4×10DB	Screw,pan(S/P washer)M4×10	4	4	4	
9	J04310001	PM定子总组件4843	PM stator base assy,4843	1	1	1	
10	J04340001	PM定子组件484323	PM stator assy,484323	1	1	1	
11	J04339001	PM定子机座	PM stator base	1	1	1	
12	0A4400806	螺栓(带垫圈)M4×8DA	Screw,pan(S/P washer)M4×8	2	2	2	
13	J04338001	螺栓M8×18	Spacer M8×18	3	3	3	
14	0A4402506	螺栓(带垫圈)M4×25DA	Screw,pan(S/P washer)M4×25	3	3	3	
15	J04311001	转子组件D22.5P24	Rotor assy,D22.5P24	1	1	1	
16	012060636	螺钉M6×6	Set screw,socket(fit)M6×6	2	2	2	



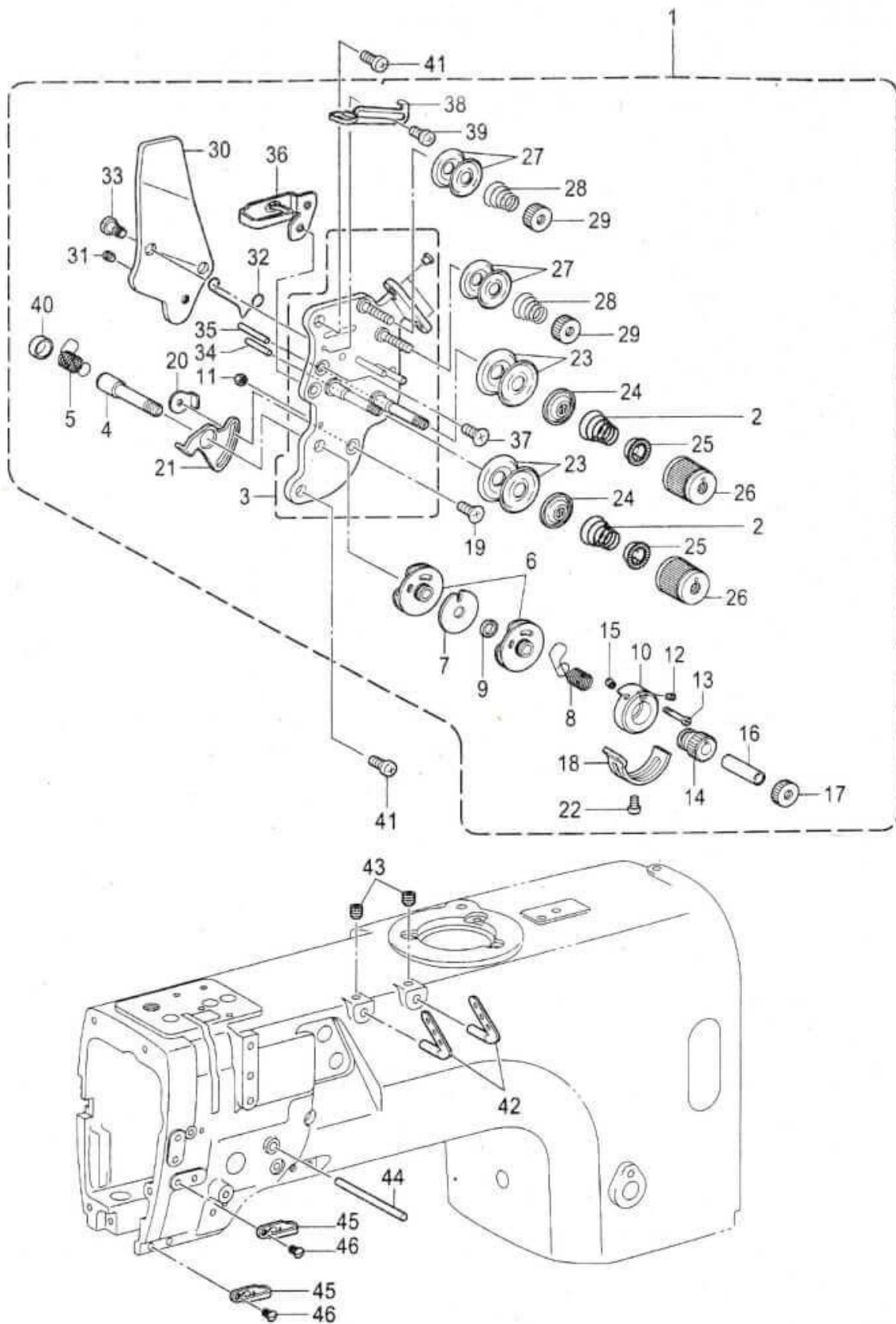
M.供油润滑装置/Lubrication

序号 Ref.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量Amt.			备注
				□□3	□□5	□□F	
1	SA4205001	油罐组件	Oil tank assy	1	1	1	
2	S51815001	供油口 8.6	Oil feeding pipe,8.6	3	3	3	8420/8720
3	SA3946001	油管接头	Oil terminal	1	1	1	
4	SA2956001	维尼龙油管L=135	Oil tube,L=135	1	1	1	
4	SA2956001	维尼龙油管L=135	Oil tube,L=135	2	2	2	8450/8750
5	SA2957001	油毡	Felt	2	2	2	
5	SA2957001	油毡	Felt	4	4	4	8450/8750
6	SA6178001	线夹	Clip	4	4	4	
7	SA3055101	油管夹	Tube clip	7	7	7	8450/8750
8	062500816	螺钉M5x8	Screw,pan M5x8	1	1	1	
9	SA2929001	橡皮塞12.5	Rubber cap,12.5	3	3	3	
9	SA2929001	橡皮塞12.5	Rubber cap,12.5	4	4	4	8450/8750
10	S38266000	油毡	Rotary hook shaft felt	1	1	1	
10	S38266000	油毡	Rotary hook shaft felt	2	2	2	8450/8750
11	SA4215001	油毡组件	Felt assy	1	1	1	
11	SA5224001	油毡组件	Felt assy	1	1	1	8450/8750
12	SA4033001	油毡压架	Felt support	1	1	1	
13	228475000	电线夹1.9x80	Fastening band 1.9 x 80	3	3	3	8450/8750
14		油管L=400	Oil tube,L=400	1	1	1	
15		油线6x6L=1100	Wick, 6 x 6 L=1100	1	1	1	
16	SA5154001	油管支架	Tube support	1	1	1	8450/8750
17	062501016	螺钉M5 x 10	Screw,pan M5 x 10	1	1	1	
18	018081236	螺栓M8x12	Bolt,socket M8x12	1	1	1	8420/8720
19	SA104450101	橡皮塞8	Rubber cap,8	2	2	2	
20	081038070	O形圈P38	O ring P38	1	1	1	
21	SA2723001	维尼龙油管L=210	Oil tube,L=210	1	1	1	
22	SA2724001	油线L=400	Wick,L=400	1	1	1	
23	SA3055101	油管夹	Tube clip	5	5	5	
24	0A5501006	螺栓(带垫圈)M5x10DB	Screw,pan(S/P washer)M5 x 10	2	2	2	
25	SA3896001	集油器L	Oil block,L	1	1	1	
26	SA2599001	油量调整螺栓	Oil adjusting screw	2	2	2	
27	081004070	O形圈P4	O ring P4	2	2	2	
28	SA6468001	橡皮垫片	Rubber packing	2	2	2	
29	SA6423001	旋梭轴油毡	Rotary hook shaft felt	2	2	2	
30	SA6415001	油线L=80	Wick,L=80	1	1	1	
31	142274101	橡皮塞4.2	Rubber cap,4.2	2	2	2	
32	SA3037001	副油罐组件	Subtank assy	1	1	1	
33	SA3040001	油嘴管	Oil feeding pipe	1	1	1	
34	SA3060001	油门垫片	Valve Packing	1	1	1	
35	SA3898001	集油器R	Oil block,R	1	1	1	
36	0A4400806	螺栓(带垫圈)M4x8DA	Screw,pan(S/P washer)M4 x 8	2	2	2	
37	SA3045101	副油罐安装架A	Subtank setting plate,A	1	1	1	
38	SA3046001	副油罐安装架B	Subtank setting plate,B	1	1	1	
39	062060816	螺钉M6x8	Screw,pan M6 x 8	2	2	2	
40	SA3044001	油管L=242	Oil tube, L=242	1	1	1	
41	S51815001	供油口 8.6	Oil feeding pipe,8.6	4	4	4	8450/8750
42	SA6472001	油管固定夹	Tube support	1	1	1	
43	SA3923001	旋梭台D垫片	Rotary hook base D packing	2	2	2	



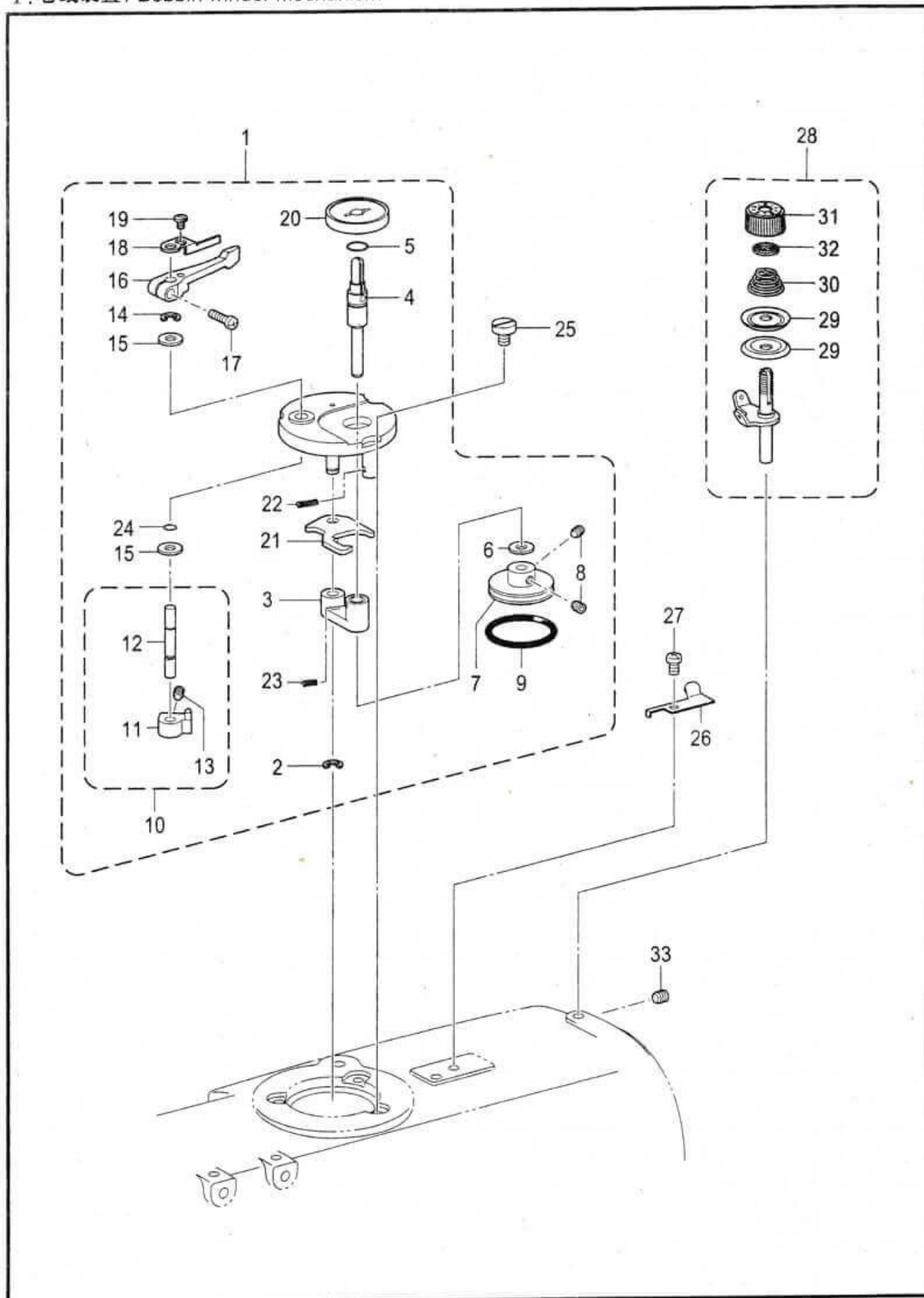
44	062401616	螺钉M4 x 16	Screw,pan M4 x 16	5	5	5	
45	SA2604001	油毡	Feed regulator felt	1	1	1	
46	SA2605001	油毡压架	Felt support	1	1	1	
47	062500616	螺钉M5 x 6	Screw,pan M5 x 6	1	1	1	
48	SA6084009	油线4 x 4 L=100	Wick,4 x 4 L=100	1	1	1	
49	108801001	油线4 x 4 L=350	Wick,4 x 4 L=350	1	1	1	
50	SA2606101	油盖	Oil cover	1	1	1	
52	SA3048101	油管压架A	Tube support,A	1	1	1	
53	SA3049001	油管压架B	Tube support,B	1	1	1	
54	062400616	螺钉M4 x 6	Screw,pan M4 x 6	1	1	1	
55	SA4014001	油管导向	Tube guide	1	1	1	
56	140890009	油盖	Oil cap	1	1	1	
57	112753001	油毡	Felt	2	2	2	
58	062061016	螺钉M6 x 10	Screw,pan M6 x 10	3	3	3	8450/8750
59	025060236	平垫圈 M6	Washer,plain M6	3	3	3	
60	SA6423001	旋梭轴油毡	Rotary hook shaft felt	2	2	2	
61	SA6416001	柱塞	Rubber presser	2	2	2	
62	SA4508001	油管夹	Tube clip	2	2	2	8450/8750
63	140327001	橡皮塞6.3	Rubber cap,6.3	2	2	2	
64	148743001	油毡	Felt	2	2	2	

N. 穿线装置 / Threading mechanism



N 穿线装置/Thread Mechanism

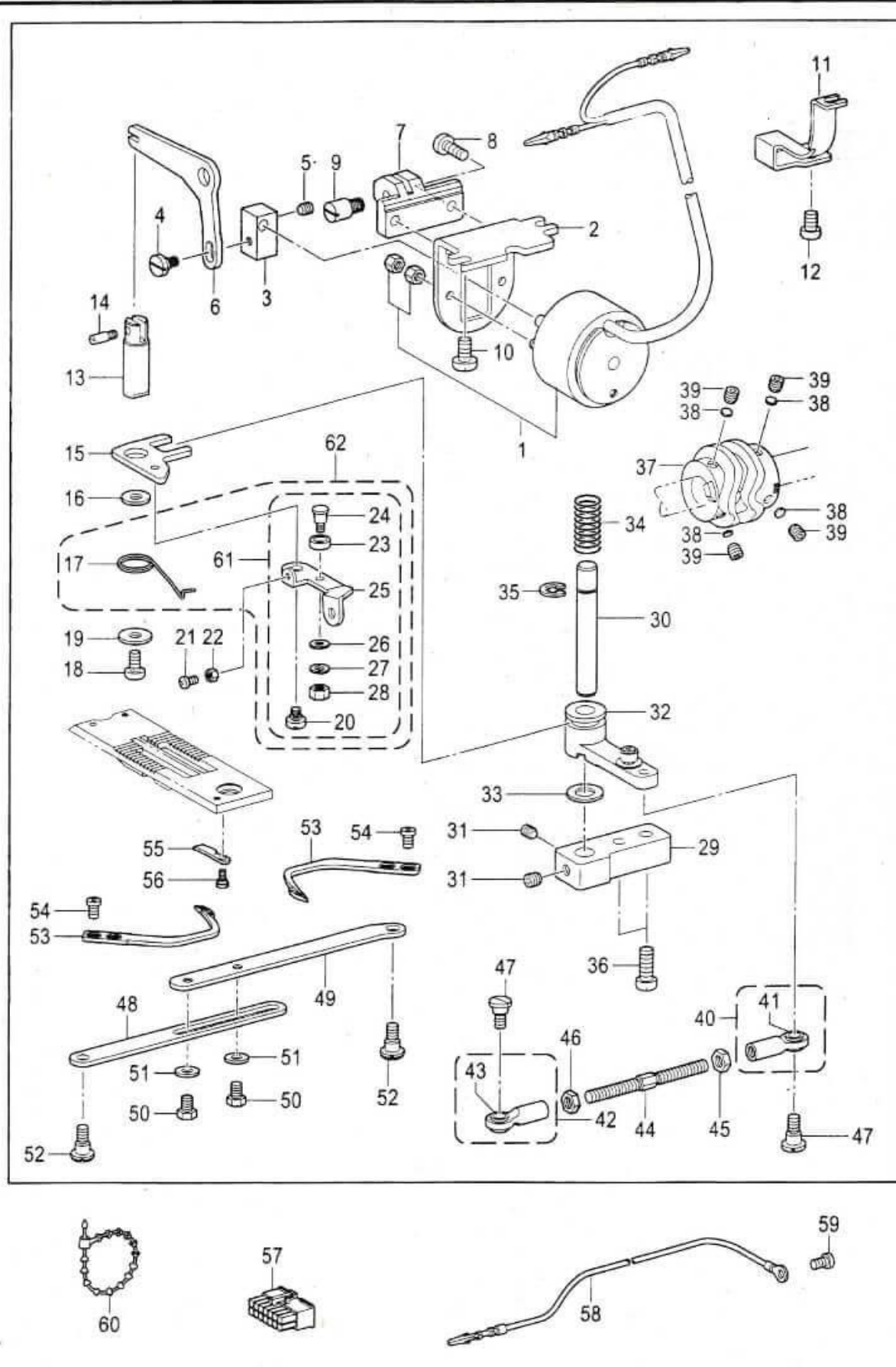
序号 Ref.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
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1	SA3417001	面线调节组件3	Upper Thread Tension Assy , 3	1			
2	SA3415001	弹簧L	Tension Spring , L	2			
1	SA2607001	面线调节组件5	Upper Thread Tension Assy , 5		1		
2	SA3416001	弹簧LL	Tension Spring , LL		2		
1	SA2818001	面线调节组件1	Upper Thread Tension Assy , 1			1	
2	SA3414001	弹簧M	Tension Spring , M			2	
3	SA4212001	调整台组件	Tension Plate Assy	1	1	1	
4	SA2613001	调整短轴	Tension Stud	1	1	1	
5	SA2614001	弹簧L	Thread Takeup Spring,L	1	1	1	
6	SA2615001	导向组件	Guide Assy,T/Takeup Spring	2	2	2	
7	SA2619001	垫片	Spacer	1	1	1	
8	SA2623001	弹簧R	Thread Takeup Spring,R	1	1	1	
9	SA2620001	轴套	Collar	1	1	1	
10	SA2621001	定位圈	Stopper Support	1	1	1	
11	021300106	螺母M3	Nut,1M3	1	1	1	
12	SA2626001	螺钉M3.5	Set screw,(cp)M3.5	1	1	1	
13	SA2624001	固定螺栓	Spring guide set screw	1	1	1	
14	SA2625001	调节旋钮	Adujsting thumb	1	1	1	
15	SA2626001	螺钉M3.5	Set screw,(cp)M3.5	1	1	1	
16	SA2627001	轴套	Collar	1	1	1	
17	SA2628001	调线螺母	Tension nut	1	1	1	
18	SA2629001	弹簧限位板	Stopper	1	1	1	
19	061350616	螺钉M3.5×6	Screw,flat M3.5×6	1	1	1	
20	SA2824001	定位螺钉M3.5	Nut,whirlstop M3.5	1	1	1	
21	SA2630001	限位板	Stopper	1	1	1	
22	062350512	螺钉M3.5×5	Screw,pan M3.5×5	1	1	1	
23	145446001	夹线盘	Disc,tension	4	4	4	
24	159805001	夹线压盘	Tension disc presser	2	2	2	
25	S20681000	调节弹簧垫圈	Wacher	2	2	2	
26	S20682105	调节螺母	Tension nut	2	2	2	
27	144504001	小夹线垫片	Thread guide disc	4	4	4	
28	154560001	小夹线弹簧A	Pretension spring,A	2	2	2	
29	155510001	夹线螺母	Tension nut	2	2	2	
30	SA2632001	松线板	Tension releade plate	1	1	1	
31	012500536	螺钉M5×5	Set screw,socket(ft)M5×5	1	1	1	
32	S38274001	松线弹簧	Treleadw spring	1	1	1	
33	SA2633001	段螺钉M3.5	Shoulder screw,M3.5	2	2	2	
34	SA4506001	松线销L	Tension release pin,L	1	1	1	
35	SA4507001	松线销R	Tension release pin,R	1	1	1	
36	SA2634001	线导向U	Thread guide,U:arm	1	1	1	
37	061350616	螺钉M3.5×6	Screw,flat M3.5×6	2	2	2	
38	SA2635001	线调整	Thread quantity adjust	1	1	1	
39	062300616	螺钉M3×6	Screw,pan M3×6	1	1	1	
40	SA2639001	线导向D	Thread guide,D:arm	1	1	1	
41	114941001	过线钩毡毡	Felt	1	1	1	
42	062500816	螺钉M5×8	Screw,pan M5×8	2	2	2	
43	SA2636001	三眼线勾	Thread retainer	2	2	2	
44	012060636	螺钉M6×6	Set screw,socket(ft)M6×6	2	2	2	
45	SA2637001	松线轴	Bar,tension release	1	1	1	
46	SA2638001	线导向M	Thread guide,M:arm	1	1	1	
47	SA2640001	螺钉M5×8	Screw,flat M5×8	2	2	2	



P 卷线装置/Bobbin Winder Mechanism

序号 R ef.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□A	□□S	□□F	
1	SA1971101	卷线器组合件	Bobbin Winder Unit	1	1	1	
2	048040342	挡圈E4	Retaining Ring,E4	1	1	1	
3	SA1975001	卷线轴基座组件	BWinder Shaft Support Assy	1	1	1	
4	SA1978001	卷线轴	Bobbin Winder Shaft	1	1	1	
5	081009070	O形圈P9	O Ring,P9	1	1	1	
6	025060136	平垫圈S6	Washer,Plain S6	1	1	1	
7	SA1980001	卷线轮	Bobbin Winder Wheel	1	1	1	
8	012500536	螺钉M5 × 5	Set Screw,Socket(FT)M5 × 5	2	2	2	
9	S25789000	橡皮垫圈29	Rubber Ring,29	1	1	1	
10	SA1981101	梭芯夹凸轮组件	Bobbin Presser Cam Assy	1	1	1	
11	SA1982101	梭芯夹凸轮	Bobbin Presser Cam	1	1	1	
12	SA1983001	梭芯夹轴	Bobbin Winder Arm Shaft	1	1	1	
13	012500536	螺钉M5 × 5	Set Screw,Socket(FT)M5 × 5	1	1	1	
14	048040342	挡圈E4	Retaining Ring,E4	1	1	1	
15	025060136	平垫圈S6	Washer,Plain S6	2	2	2	
16	SA1984001	梭芯压臂柄	Bobbin Presser Arm	1	1	1	
17	062401216	螺钉M4 × 12	Screw,Pan M4 × 12	1	1	1	
18	SA1985001	梭芯夹	Bobbin Presser	1	1	1	
19	S23418002	螺钉M4 × 5	Screw,M4 × 5	1	1	1	
20	SA1988001	梭芯座	Bobbin Support	1	1	1	
21	SA1989001	卷线杠杆	Bobbin Winder Lever	1	1	1	
22	SA1990101	弹簧	Spring	1	1	1	
23	SA1991001	弹簧	Bobbin Winder Base Spring	1	1	1	
24	SA2190001	O形密封圈	O Ring,SS5	1	1	1	
25	SA1992101	固定螺钉	Bobbin Winder Fi x ed Screw	3	3	3	
26	SA1360001	切刀	Knife	1	1	1	
27	062500606	螺钉M5 × 6	Screw,Pan M5 × 6	1	1	1	
28	SA1994001	卷线器夹线组件	Bobbin Winder Tension Assy	1	1	1	
29	145446001	夹线盘	Disc , Tension	2	2	2	
30	100401021	夹线弹簧	Tension Spring	1	1	1	
31	S31032001	压线螺母	Tension Nut	1	1	1	
32	S12441001	止动垫圈	Washer	1	1	1	
33	012500536	螺钉M5 × 5	Set Screw,Socket(FT)M5 × 5	1	1	1	

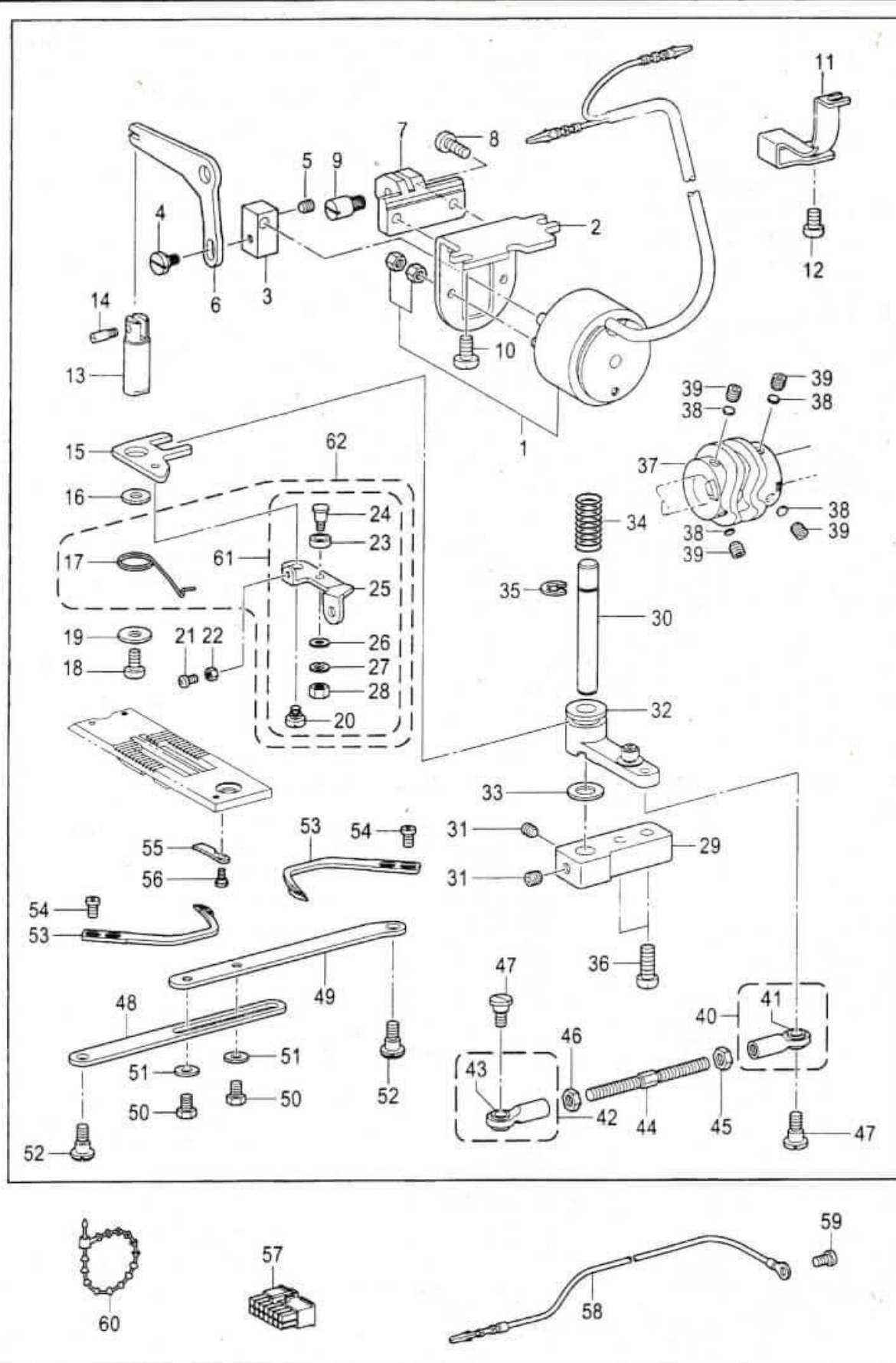
Q. 切线装置 / Thread trimmer mechanism



Q.切线机构 D4 /Thread trimmer mechanism D4

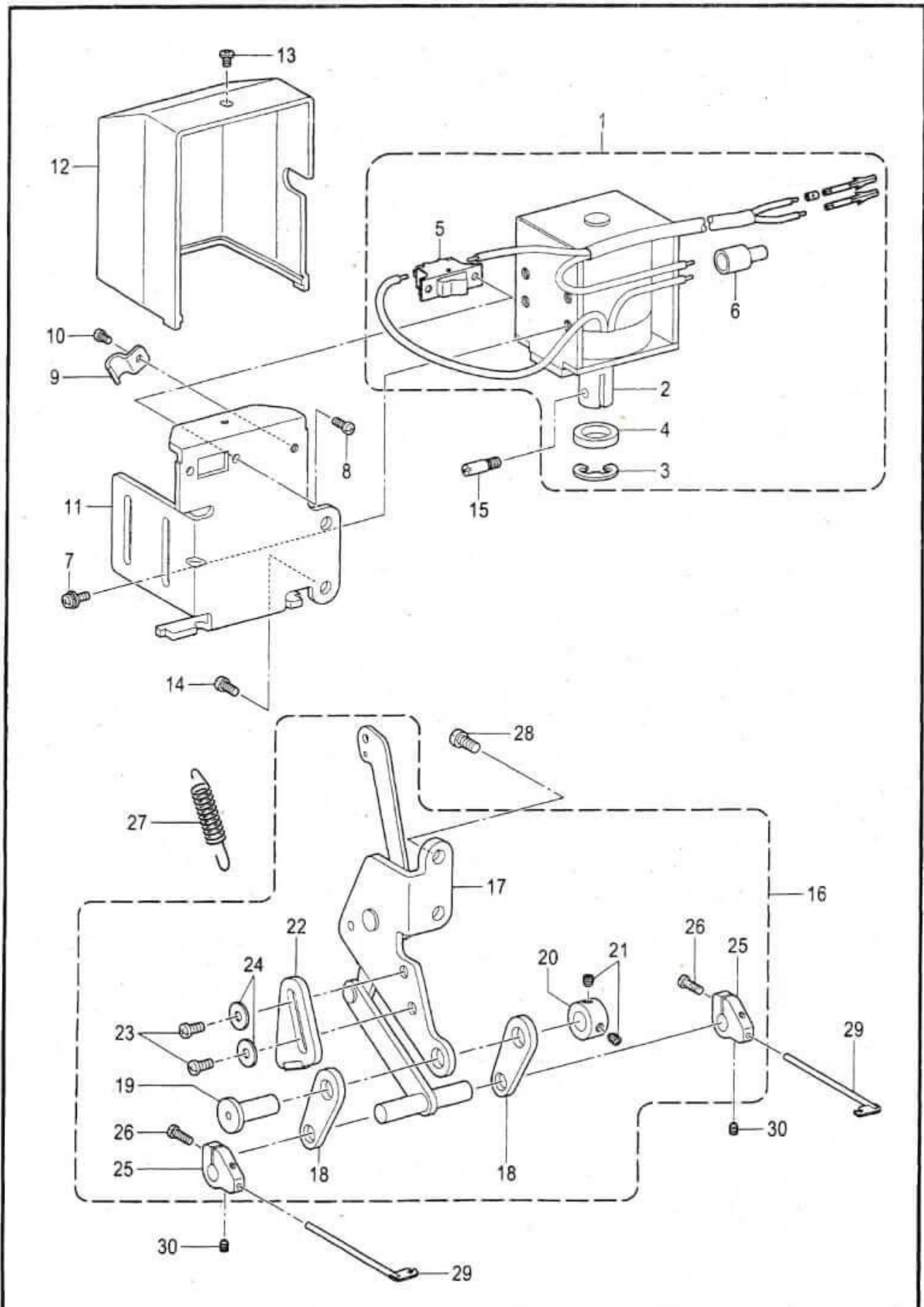
序号 R ef.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□3	□□5	□□F	
1	SA2642001	切线电磁铁组件	Thread trimmer solenoid assy.	1	1	1	
2	SA2643001	切线电磁铁架	Thread trimmer solenoid bracket	1	1	1	
3	SA2644001	电磁铁接头	Thread trimming solenoid joint	1	1	1	
4	SA2645001	段螺钉M5	Shoulder screw,M5	1	1	1	
5	012500536	螺钉M5×5	Set Screw,Socket(FT)M5×5	1	1	1	
6	SA2646001	电磁铁杆	Solenoid lever	1	1	1	
7	SA2728001	电磁铁杆支撑架	Solenoid lever bracket	1	1	1	
8	062501016	螺钉M5×10	Screw,pan M5×10	2	2	2	
9	SA2647001	电磁铁杆短轴	Solenoid lever stud	1	1	1	
10	062061016	螺钉M6×10	Screw,pan M6×10	2	2	2	
11	SA2648001	线夹	Fastening band	1	1	1	
12	062060816	螺钉M6×8	Screw,pan M6×8	1	1	1	
13	SA2651001	切线轴	Thread trimming driving rod	1	1	1	
14	I48546001	销	Plunge pin	1	1	1	
15	SA2652101	切线轴板	Thread trimming driving rock plate	1	1	1	
16	SA2860001	垫圈	Washer	1	1	1	
17	SA6395001	弹簧	Spring	1	1	1	
18	062501016	螺钉M5×10	Screw,pan M5×10	1	1	1	
19	I16662003	垫圈	Washer	1	1	1	
20	SA2655001	段螺钉M4	Shoulder screw,M4	1	1	1	
21	062351216	螺钉M3.5×12	Screw,pan M3.5×12	1	1	1	
22	021350106	螺母M3.5	Nut M3.5	1	1	1	
23	SA6392001	松线滚轮	Roller	1	1	1	
24	SA6393001	滚轮轴	Roller	1	1	1	
25	SA6394001	松线杆	Tension release lever	1	1	1	
26	I13431002	垫圈	Washer ,plain	1	1	1	
27	028050246	弹簧垫圈 2-5	Washer spring 2-5	1	1	1	
28	021500106	六角螺母M5	Nut 1 M5	1	1	1	
29	SA2657001	主杆轴架	Knife main lever shaft bracket	1	1	1	
30	SA2658001	主杆轴	Knife main lever shaft	1	1	1	
31	012060636	螺钉M6×6	Screw,pan M6×6	2	2	2	
32	SA2659001	主杆组件	Knife main lever assy	1	1	1	
33	I48559100	橡胶垫圈	Rubber cushion	1	1	1	
34	S07509001	弹簧	spring	1	1	1	
35	048070342	挡圈E7	Retaining ring ,E7	1	1	1	
36	062061616	螺钉M6×16	Screw,pan M6×16	2	2	2	
37	SA2661001	切线凸轮	Thread trimming cam	1	1	1	
38	SA2378001	垫片4.8	Washer 4.8	4	4	4	
39	S25236001	螺钉M6×10	Screw,pan M6×10	4	4	4	
40	SA2663001	球接连杆组件 R	Ball joint assy R	1	1	1	
41	I41331002	管套	Bush	1	1	1	
42	SA2665001	球接连杆组件 L	Ball joint assy L	1	1	1	
43	I41331002	管套	Bush	1	1	1	
44	SA2667001	调节连杆	Length adjusting rod	1	1	1	
45	021060306	螺母M6	Nut M6	1	1	1	
46	SA2668001	左旋螺母M6	Levorotation Nut M6	1	1	1	
47	SA2669001	段螺钉M6(SM5.95-28)	Shoulder screw,M6	2	2	2	
48	SA2672001	切线连杆 R	Thread trimming connecting rod L	1	1	1	

Q. 切线装置 / Thread trimmer mechanism



49	SA2673001	切线连杆 L	Thread trimming connecting rod R	1	1	1	
50	017500812	六角螺栓M5 × 8	Bolt M5 × 8	2	2	2	
51	025050236	平垫圈M5	Washer,plain M5	2	2	2	
52	SA2645001	段螺钉M5	Shoulder screw,M5	2	2	2	
53	S07526301	动刀	Movable knife	2	2	2	S17526201
54	148536001	螺钉SM4.37-40 × 4.2	Screw,SM4.37-40 × 4.2	4	4	4	
55	S07527001	定刀	Fixed knife	2	2	2	
56	148539101	段螺钉SM2.38	Stud screw SM2.38	2	2	2	
57	S38687000	插头5557-14R	Connector 5557-14R	1	1	1	
58	SA1998001	接地线组件	Ground wire assy	1	1	1	
59	062500816	螺钉 M5 × 8	Screw,pan M5 × 8	1	1	1	
60	340400001	线夹	Fastening band	1	1	1	
61	SA8364001	松线杆组件	Tension release lever assy	2	2	2	
62	SA8365001	松线杆复合件	Tension release lever set	1	1	1	

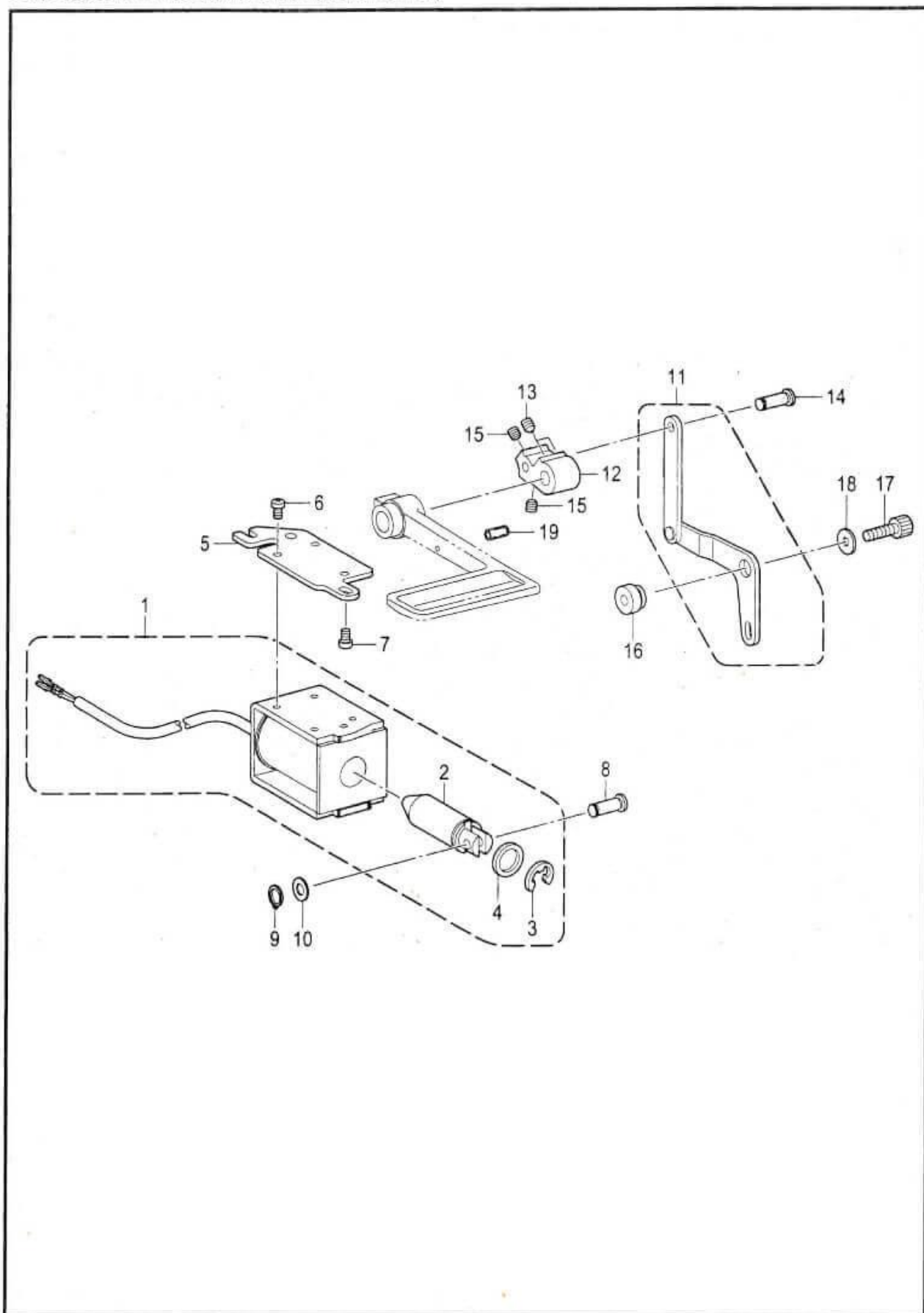
S1. 扫线装置 D4 / Thread wiper mechanism D4



S1.扫线机构 D4 /Thread wiper mechanism D4

序号 R ef.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□3	□□5	□□F	
1	SA2680001	扫线电磁铁组件	Thread wiper solenoid assy	1	1	1	
2	148511001	插帮式铁芯	Plunger	1	1	1	
3	048090342	挡圈E9	Retaining ring JE9	1	1	1	
4	S38426000	橡皮垫	Rubber cushion	1	1	1	
5	S02664001	扫线开关	Thread wiper switch	1	1	1	
6	S02665000	电线接头	Terminal connector	1	1	1	
7	S39048001	螺钉(带垫片)M4×10	Screw,pan(s/p w) M4×10	4	4	4	
8	062300616	螺钉M3×6	Screw,pan M3×6	2	2	2	
9	140647101	电线固定夹	Cord holder	1	1	1	
10	062400616	螺钉M4×6	Screw,pan M4×6	1	1	1	
11	SA2732001	电磁铁安装板	Solenoid bracket	1	1	1	
12	SA2696001	电磁铁盖	Solenoid cover	1	1	1	
13	060400516	螺钉M4×5	Screw,pan M4×5	4	4	4	
14	062501016	螺钉M5×10	Screw,pan M5×10	2	2	2	
15	148546001	销	Pin	1	1	1	
16	SA2682101	电磁铁连杆组件	Solenoid link assy	1	1	1	SA2682001
17	SA2685001	动作传动板	Driver	1	1	1	
18	S07549101	连接板	Link	2	2	2	
19	S07550001	销	Pin	1	1	1	S07548001
20	SA2504001	紧圈	Set screw collar	1	1	1	
21	012500536	螺钉M5×5	Screw,pan M5×5	5	5	5	
22	SA8745001	定位板	Stopper	1	1	1	
23	062500816	螺钉M5×8	Screw,pan M5×8	2	2	2	
24	025050236	平垫圈5	Plain washer 5	2	2	2	
25	S07552101	扫线器架	Thread wiper supporter	2	2	2	S07552001
26	062661212	螺钉SM3.18~40×12	Screw, SM3.18~40×12	2	2	2	
27	SA2684001	弹簧	Spring	1	1	1	
28	062501016	螺钉M5×10	Screw,pan M5×10	2	2	2	
29	S07553001	扫线器	Thread wiper	2	2	2	
30	S07424001	螺钉SM3.18×4	Set screw,SM3.18×4	2	2	2	

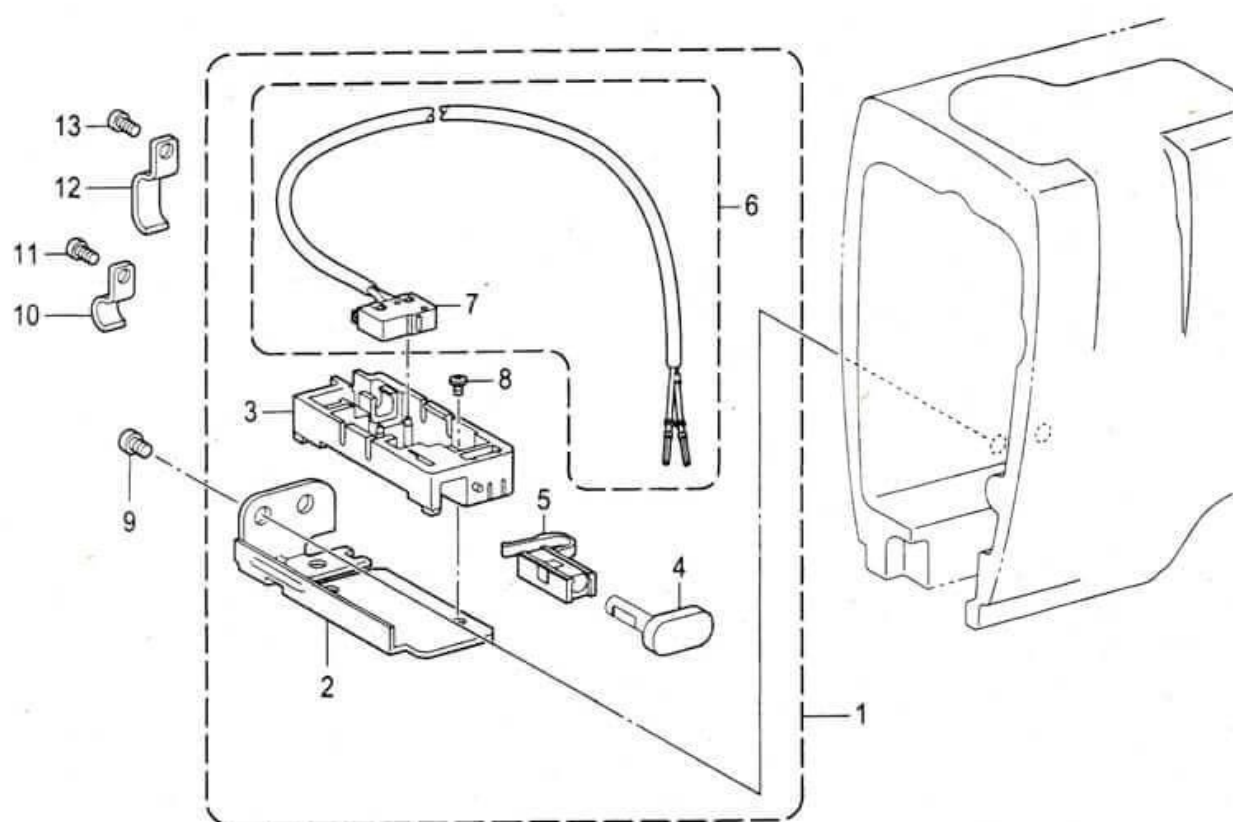
S2.倒缝装置 D4 / Quick reverse mechanism D4



S2.倒缝装置 D4 /Quick reverse mechanism D4

序号 R ef.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□3	□□5	□□P	
1	SA3072001	反转电磁铁组件	Quick reverse solenoid assy	1	1	1	
2	154729001	铁芯	Solenoid core	1	1	1	
3	154730001	挡圈E15	Retaining ring ,E15	1	1	1	
4	154731000	橡胶垫	Rubber cushion	1	1	1	
5	SA2535101	电磁铁基座	Solenoid base	1	1	1	
6	062500812	螺钉M5 × 8	Screw,pan M5 × 8	3	3	3	
7	062061016	螺钉M6 × 10	Screw,pan M6 × 10	2	2	2	
8	SA2992001	连接销	Pin	2	2	2	
9	048060142	轴用挡圈C6	Retaining ring ,C6	1	1	1	
10	153138001	垫圈6.5	Washer,plain 6.5	1	1	1	
11	SA2536001	电磁铁曲杆组件	Solenoid lever assy	1	1	1	
12	SA2540001	反转曲柄	Reverse crank	1	1	1	
13	016061031	螺钉M6 × 10	Screw,pan M6 × 10	2	2	2	
14	SA2992001	连接销	Pin	1	1	1	
15	012060636	螺钉M6 × 6	Screw,pan M6 × 6	2	2	2	
16	SA2539001	电磁铁曲杆轴	Solenoid lever shaft	1	1	1	
17	018062032	螺钉M6 × 20	Screw,pan M6 × 20	1	1	1	
18	149095009	垫圈6	Washer 6	1	1	1	
19	153132000	尼龙管 L=13.5	Oil tube L=13.5	1	1	1	

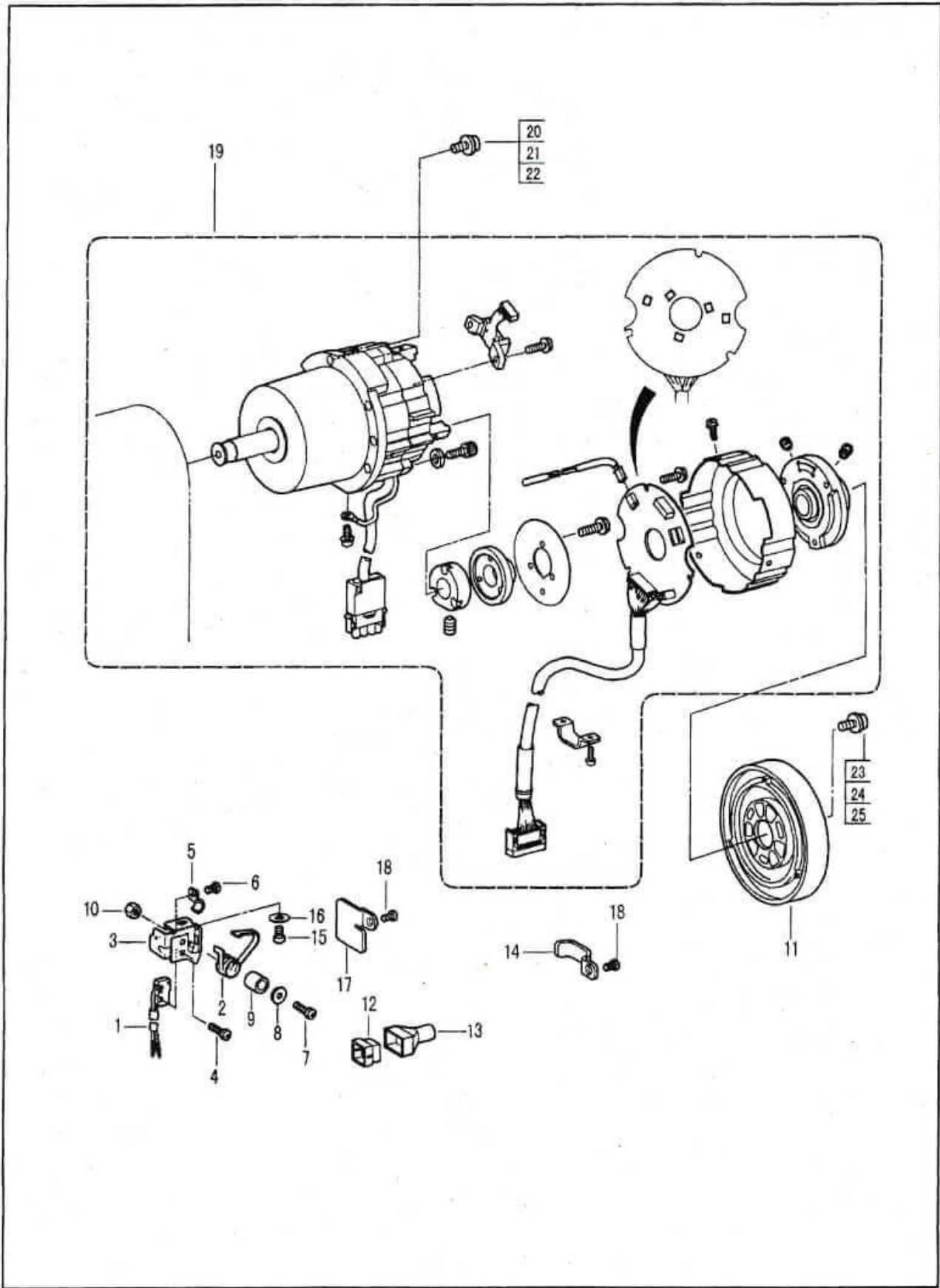
U. 倒缝开关装置 D4/ Quick reverse switch mechanism D4



U.倒缝开关装置 D4 /Quick reverse switch mechanism D4

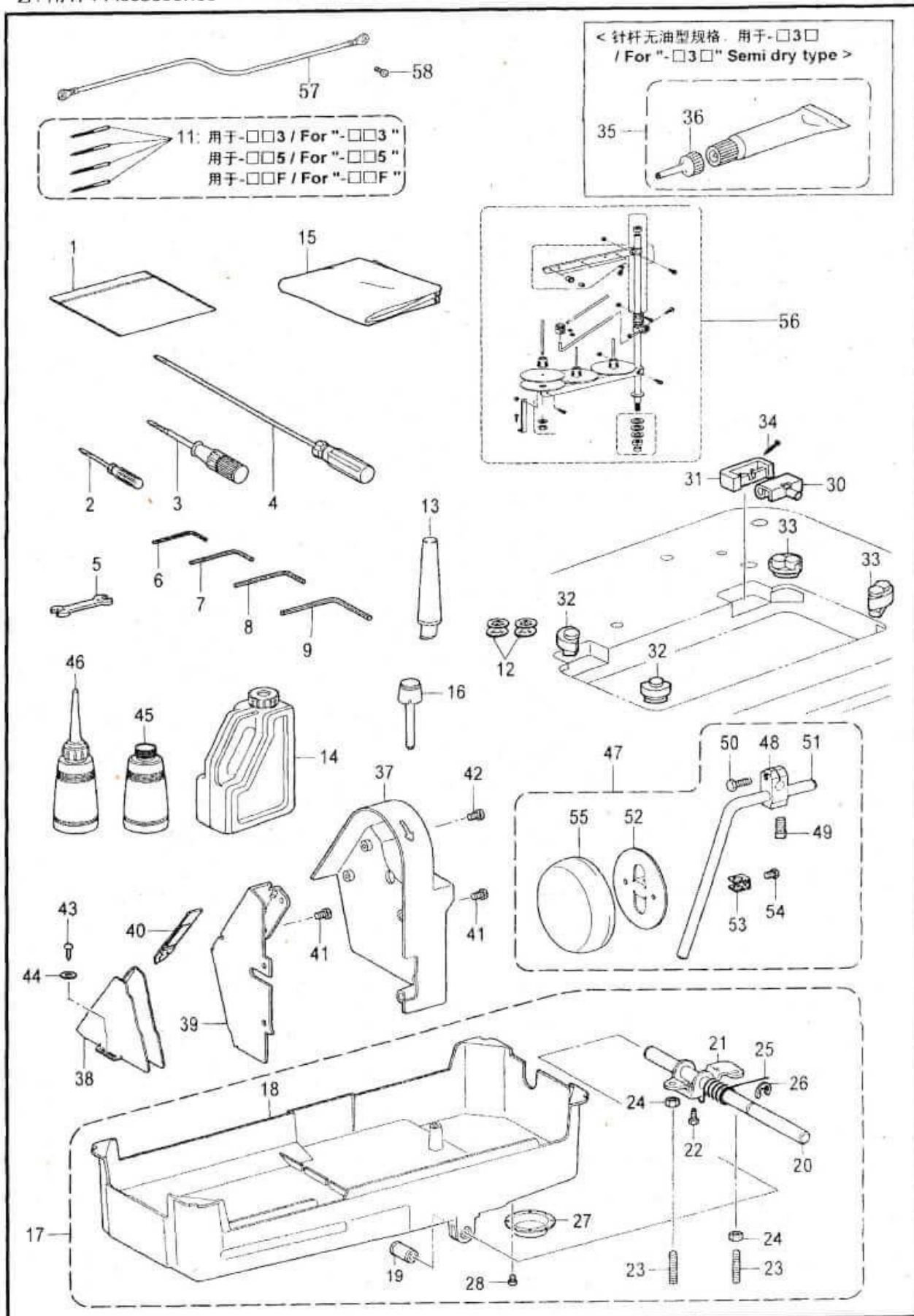
序号 R ef.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□3	□□5	□□F	
1	SA2688201	调节器按钮组件	Reverse actuator assy	1	1	1	SA2688001
2	SA2270001	倒缝开关安装架	Reverse switch bracket	1	1	1	
3	S34281000	倒缝开关座	Reverse switch base	1	1	1	
4	S32904101	按钮	Actuator	1	1	1	S32904000
5	SA4099001	R-开关弹簧	Reverse switch spring	1	1	1	S32905000
6	SA1390001	R开关组件	R-Switch assy	1	1	1	
7	S32907000	微动开关	Micro switch	1	1	1	
8	060300606	螺钉M3 × 6	Screw,pan M3 × 6	1	1	1	
9	062500616	螺钉M5 × 6	Screw,pan M5 × 6	1	1	1	
10	SA2689101	线夹	Stopper	1	1	1	SA2689001
11	062500616	螺钉M5 × 6	Screw,pan M5 × 6	1	1	1	
12	SA1388101	线夹	Stopper	3	3	3	SA1388001
13	062500616	螺钉M5 × 6	Screw,pan M5 × 6	1	1	1	

T1. 马达与安全开关 D3



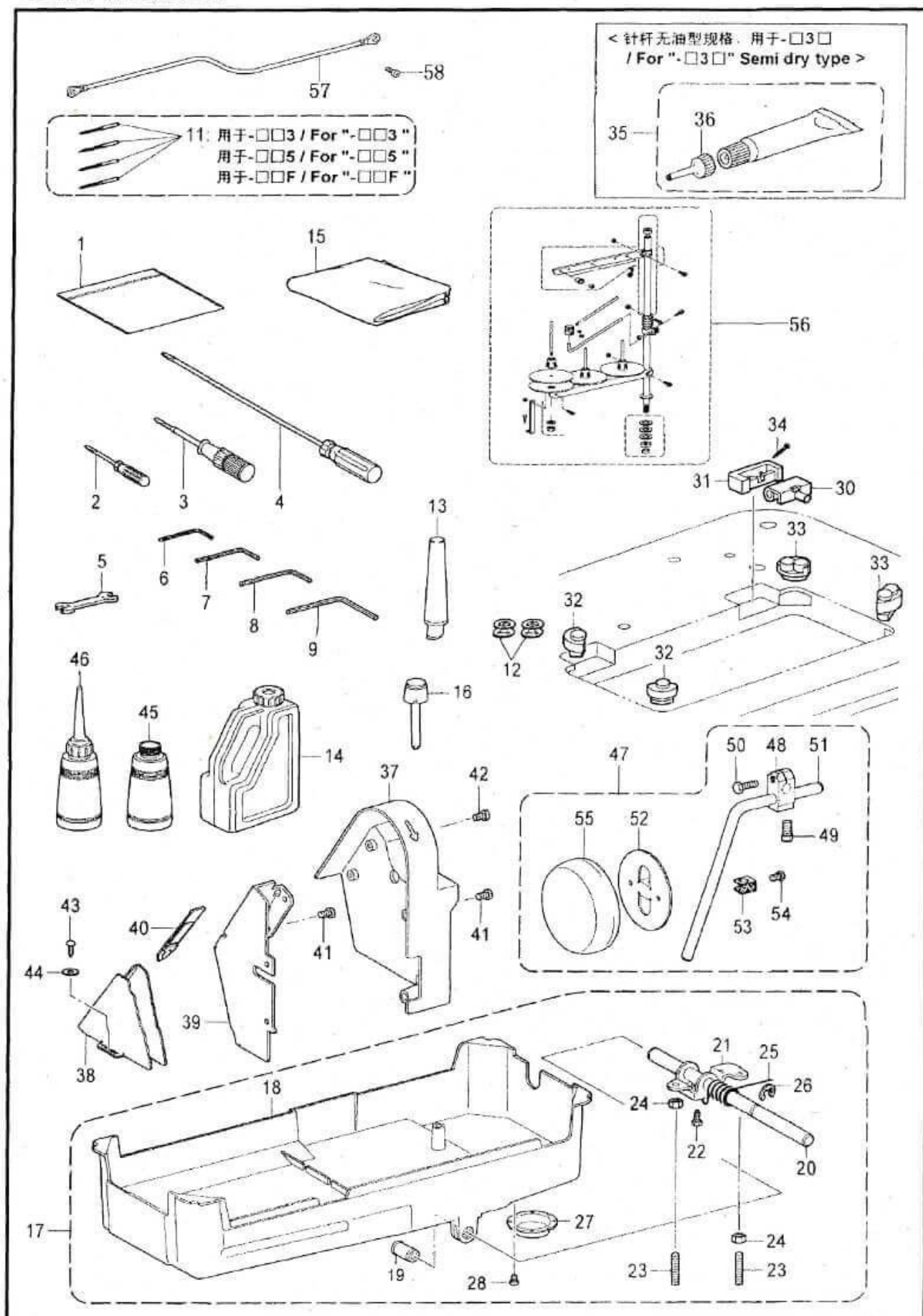
T1.马达与安全开关 D4 /Motor and safety switch mechanism D4

序号 Ref.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□3	□□5	□□F	
1	SA1385001	微动开关组件	Micro switch assy	1	1	1	SA2385001
2	S38744101	板弹簧	Switch plate spring	1	1	1	
3	SA2686001	开关基座	Switch base	1	1	1	
4	062020806	螺钉M2×8	Screw,pan M2×8	2	2	2	
5	140647101	电线固定夹	Cord holder	1	1	1	
6	062400616	螺钉M4×6	Screw,pan M4×6	1	1	1	
7	062401216	螺钉M4×12	Screw,pan M4×12	1	1	1	
8	026040236	平垫圈4	Washer,plain 4	1	1	1	
9	154514001	衬套	Bush	1	1	1	
10	021400106	六角螺母M4	Nut M4	1	1	1	
11	SA4040001	手轮	Pulley	1	1	1	
12		四芯插头	Fourcore connector plugs	1	1	1	
13		护套	jacket	1	1	1	
14	SA2712001	电线固定夹	Cord holder	1	1	1	
15	062060812	螺钉M6×8	Screw,pan M6×8	1	1	1	
16	025060136	平垫圈S6	Washer,plain S6	1	1	1	
17	SA2687001	线夹	Cord holder	1	1	1	
18	062500816	螺钉M5×8	Screw,pan M5×8	2	2	2	
19		马达组件	Motor assy	1	1	1	
20	SA2354001	螺钉M5×18	Screw,pan M5×18	5	5	5	
21	028050246	弹簧垫圈5	Washer,spring 5	5	5	5	
22	026050136	平垫圈5	Washer,plain 5	5	5	5	
23	SA3025001	螺钉M4×10	Screw,pan M4×10	3	3	3	
24		弹簧垫圈	Washer,spring	3	3	3	
25		平垫圈	Washer,plain	3	3	3	
26		编码器盖	Encoder cover	1	1	1	
27		螺栓(带垫圈)M3×8DA	Screw pan(s/p washer)M3×8	3	3	3	
28		马达安装基座	Pulley holder	1	1	1	
29	014500632	螺钉M5×6	Set screw socker(cp)M5×6	2	2	2	



Z 附件 /Accessories

序号 Ref.No	参考件号 Ref.Part No.	零部件名称	Name of parts	数量 Amt.			备注
				□□3	□□5	□□F	
1	122991001	附属品塑料袋	Accessory Bag	1	1	1	
2	142443001	小起子1.9×52	ScrewDriver,1.9×52	1	1	1	
3	118837001	起子3.4×70	ScrewDriver,3.4×70	1	1	1	
4	S17774001	大起子4.7×250	ScrewDriver,4.7×250	1	1	1	
5	100887001	双头扳手8×9	Wrench,8×9	1	1	1	
6	142002001	内六角扳手2	Hexagonal Wrench,2	1	1	1	
7	154125001	内六角扳手2.5	Hexagonal Wrench,2.5	1	1	1	
8	142721001	内六角扳手3	Hexagonal Wrench,3	1	1	1	
9	149570001	内六角扳手5	Hexagonal Wrench,5	1	1	1	
11	107415014	机针DP×5 (#14)	Needle ,DP×5	4			
11	107415022	机针DP×5 (#22)	Needle ,DP×5		4		
11	107415011	机针DP×5	Needle ,DP×5			4	
12	S01928151	梭芯	Bobbin	2	2	2	8420/8450
	S07741001	梭芯	Bobbin	2	2	2	8720/8750
13	100477009	机头撑杆	Head Rest	1	1	1	
14	S55663001	油罐组件	Oil Tank Assy	1	1	1	
15	144166001	机头罩	Head Cover	1	1	1	
16	145573000	膝控提升顶杆	Knee Lifter Complying Bar	1	1	1	
17	SA2691101	油盘组件	Oil Pan Assy	1	1	1	
18	SA2692101	油盘	Oil Pan	1	1	1	
19	149578000	轴套	Bush	1	1	1	
20	SA2582001	膝控横轴	Knee Lifter Shaft	1	1	1	
21	SA2590001	膝控	Knee Lifter	1	1	1	
22	S25344001	螺栓M6	Bolt,M6	1	1	1	
23	S25475001	螺钉M6×19	Set Screw,M6×19	2	2	2	
24	021060306	六角螺母M6	Nut,3M6	2	2	2	
25	S15889001	复位弹簧	Twist Spring	1	1	1	
26	146293001	挡圈E10	Retaining Ring,E10	1	1	1	
27	153230101	放油口	Drain	1	1	1	
28	S23418002	螺钉M4×5	Screw,M4×5	2	2	2	
30	143882001	机头铰链	Head Hinge	2	2	2	
31	143910009	机头铰链套	Rubber Cushion	2	2	2	
32	SA1962001	头部防震垫	Head Cushion	2	2	2	
33	SA1963001	头部防震垫	Head Cushion	2	2	2	
34	109714000	钉	Nail	4	4	4	
35	SA2693001	润滑脂组件	Grease Unit	1	1	1	用于□3□,For □ 3□
36	SA2695001	润滑脂注入口	Grease Nozzle	1	1	1	用于□3□,For □ 3□
37	SA2768101	皮带罩U	Belt Cover,U	1	1	1	
38	SA2769001	皮带罩D	Belt Cover,D	1	1	1	
39	SA2770101	皮带罩架	Belt Cover Bracket	1	1	1	
40	S37263001	皮带罩D盖L	Belt Cover D Lid,L	1	1	1	
41	062500816	螺钉M5×8	Screw,Pan M5×8	4	4	4	
42	062500816	螺钉M5×8	Screw,Pan M5×8	2	2	2	
43	100666002	圆头木螺钉M5.5×20	Wood Screw,Round M5.5×20	2	2	2	
44	025750132	平垫圈S5.56	Washer,Plain S5.56	2	2	2	
45	114486002	油壶	Oiler	1	1	1	
46	114483002	油壶组件	Oiler Assy	1	1	1	



针距组零件明细表 /Gauge parts list (8420/8450/8720/8750)

针距 Needle gauge (mm)	针夹 Needle Clamp Assembly (8420/8720)	针夹 Needle clamp Assembly (8450/8750)	针板 Needle Plate	送布牙 Feed Dog	压脚 Presser Foot Assembly
1/8(3.2)	11634021	11734021(L) 11734041(R)	12915021	12914002	1291600200
5/32(4.0)	11634022	11734022(L) 11734042(R)	12915022	12914003	1291600300
3/16(4.8)	11634023	11734023(L) 11734043(R)	12915023	12914004	1291600400
1/4(6.4)	11634001	11734002(L) 11734003(R)	12915004	12914001	1291600100
5/16(7.9)	11634025	11734025(L) 11734045(R)	12915024	12914005	1291600500
3/8(9.5)	11634026	11734026(L) 11734046(R)	12915025	12914006	1291600600
7/16(11.1)		11734027(L) 11734047(R)	12915026	12914007	1291600700
1/2(12.7)	11634028	11734028(L) 11734048(R)	12915027	12914008	1291600800
5/8(15.9)	11634029	11734029(L) 11734049(R)	12915028	12914010	1291600900
1(25.4)	11634030		12915030	12914011	1291601000
1 1/4(31.8)	11634031		12915031	12914012	1291601100
1 1/2(38.1)	11634033		12915032	12914013	1291601200

46	114483002	油壶组件	Oiler Assy	1	1	1	
47	S38300001	膝控组件	Knee Lifter Assy	1	1	1	
56	S07558309	线架组件 3DRTHF	Cotton Stand Assy,3DRTHF	1	1	1	
57	SA4313001	地线	Ground Wire	1	1	1	用于□3□,For □ 3□
58	062500816	螺钉 M5 × 8	Screw Pan M5 × 8	1	1	1	用于□3□,For □ 3□

直驱针距组零件明细表/Direct drive Gauge parts list

针距 Needle gauge (mm)	针夹 Needle Clamp Assembly (8420/8720)	针夹 Needle clamp Assembly (8450/8750)	针板 Needle Plate	送布牙 Feed Dog		压脚 Presser Foot Assembly	
				-3	-5	-3	-5
1/8(3.2)	11634021	11734021(L) 11734041(R)	12915302	12914302	12914315	1291630200	1291631400
5/32(4.0)	11634022	11734022(L) 11734042(R)	12915302	12914303	12914316	1291630300	1291631500
3/16(4.8)	11634023	11734023(L) 11734043(R)	12915303	12914304	12914317	1291630400	1291631600
1/4(6.4)	11634001	11734002(L) 11734003(R)	12915301	12914301	12914314	1291630100	1291631300
5/16(7.9)	11634025	11734025(L) 11734045(R)	12915304	12914305	12914318	1291630500	1291631700
3/8(9.5)	11634026	11734026(L) 11734046(R)	12915305	12914306	12934320	1291630600	1291631800
7/16(11.1)		11734027(L) 11734047(R)	12915306	12914307	12914321	1291630700	1291631900
1/2(12.7)	11634028	11734028(L) 11734048(R)	12915307	12914308	12914322	1291630800	1291632000
5/8(15.9)	11634029	11734029(L) 11734049(R)	12915308	12914310	12914323	1291630900	1291632100
1(25.4)	11634030		12915309	12914311	12914324	1291631000	1291632200
1 1/4(31.8)	11634031		12915310	12914312	12914325	1291631100	1291632300
1 1/2(38.1)	11634033		12915311	12914313	12914326	1291631200	1291632400