

TYPICAL

DIRECT DRIVE COMPUTER-CONTROLLED HIGH-SPEED LOCKSTITCH SEWING MACHINE

Operation instruction
Parts book

IMPORTANT SAFETY INSTRUCTIONS

Putting sewing systems into operation is prohibited until it has been ascertained that the sewing systems in which these sewing machines will be built into, have conformed with the safety regulations in your country. Technical service for those sewing systems is also prohibited.

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

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

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

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

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



Danger of injury to operator or service staff



Items requiring special attention

重要安全事项

此缝纫机在有的国家（设置场所）由于该国的安全规定而被禁止使用。
同时，技术服务也同样被禁止。

1. 使用此缝纫机时，必须遵守包括如下项目的基本安全措施。
2. 使用此缝纫机之前，请阅读本使用说明书在内的所有指示文件。
同时应将此使用说明书妥善保管，以便能够随时查阅。
3. 此缝纫机应与贵国的有关安全规定一起使用。
4. 使用此缝纫机和缝纫机动作中，所有的安全装置应安装到规定的位置。
没有安装规定的安全装置的缝纫机禁止使用。
5. 此缝纫机应由接受过培训的操作人员来操作。
6. 使用缝纫机时，建议戴安全防护眼镜。
7. 发生下列情况时，应立即关掉电源开关，或拔下电源线插头。
 - 7-1 机针、弯针、分离器等穿线和更换旋梭时。
 - 7-2 更换机针、压脚、针板、弯针、分离器、送布牙、护针器、支架、布导向器等时。
 - 7-3 修理时。
 - 7-4 工作场所无人了或离开工作场所时。
 - 7-5 使用离合马达时，请等待马达完全停止之后再行。
8. 缝纫机以及附属装置使用的机油、润滑脂等液体流入眼睛或沾到皮肤上时，或被误饮时，应立即清洗有关部份并去医院治疗。

9. 禁止用手触摸打开了缝纫机开关通电的零件或装置。
10. 有关缝纫机的修理、改造、调整应由受过专门训练的技术人员或专家进行。
11. 一般的维修保养应由受过训练的人员来进行。
12. 有关缝纫机的电气方面的修理、维修应由有资格的电气技术人员或专家的监督和指导下进行。
13. 修理、保养有关空气、气缸等压缩空气的零件时，应切断空气压缩机供气源后再进行。
如有残留压缩空气时，应放掉压缩空气。
但，受过相当训练的技术人员或专家进行有关调整或确认动作时除外。
14. 缝纫机在使用期间应定期进行清扫。

15. 为了正常安全运转，应安装地线。同时应在不受高频焊接机等强噪音源影响的环境下使用。
16. 电源插头应用具有电气专门知识的人来安装。电源插头必须连接到接地插座上。

17. 缝纫机指定用途以外不能使用。
18. 对缝纫机的改造、变更应符合安全规格，并采取有效的安全措施。
另外，对于有关改造和变更，公司概不负责。

19. 本使用说明书上采用以下 2 个警告符号。



有损伤操作人员、维修人员的危险。



安全上需要特别加以注意的事项。

FOR SAFE OPERATION



1. To avoid electrical shock hazards, neither open the cover of the electrical box for the motor nor touch the components mounted inside the electrical box.



1. To avoid personal injury, never operate the machine with any of the belt cover, Finger guard or safety devices removed.
2. To prevent possible personal injuries caused by being caught in the machine, Keep your fingers, head and clothes away from the handwheel, V belt and the motor while the machine is operation .In addition, place nothing around them.
3. To avoid personal injury, never put your hand under the needle when you turn "ON" the power switch or operate the machine.
4. To avoid personal injury, never put your fingers into the thread take-up cover while the machine is in operation.
5. The hook rotates at a high speed while the machine is in operation. To prevent possible injury to hands, be sure to keep your hands away from the vicinity of the hook during operation. In addition, be sure to turn OFF the power to the machine when replacing the bobbin.
6. To avoid possible personal injuries, be careful not to allow your fingers in the machine when tilting/raising the machine head.
7. To avoid possible accidents because of abrupt start of the machine, turn OFF the power to the machine when tilting the machine head or removing the belt cover and the V belt.
8. If your machine is equipped with a servo-motor, the motor does not produce noise while the machine is at rest .To avoid possible accidents due to abrupt start of the machine, be sure to turn OFF the power to the machine.
9. To avoid electrical shock hazards, never operate the sewing machine with the ground wire for the power supply removed.
10. To prevent possible accidents because of electric shock or damaged electrical component(s), turn OFF the power switch in prior to the connection/disconnection of the power plug.

BEFORE OPERATION





CAUTION:

To avoid malfunction and damage of the machine, confirm the following.

- Before you put the machine into operation for the first time after the set-up, clean it thoroughly.
- Remove all dust gathering during transportation and oil it well.
- Confirm that the power plug has been properly connected to the power supply.
- Never use the machine in the state where the voltage type is different from the designated one.
- The direction of rotation of the sewing machine is counterclockwise as observed from the handwheel side. Be careful not to rotate it in reverse direction.

运转缝纫机前的注意事项

 危险	1. 为了防止发生触电事故，请不要在打开电源的状态下，打开电气箱盖以及触摸电气箱内的零件。
 注意	<ol style="list-style-type: none">1. 为了防止人身事故的发生，请不要在卸下皮带防护罩、手指防护器等安全装置的状态下运转缝纫机。2. 为了防止被卷入机器的人身事故，缝纫机运转中请不要将手指、头发、衣服靠近皮带轮、V形皮带、马达、也不要东西放到机器上面。3. 为了防止人身事故的发生，打开电源时以及缝纫机运转中，请不要把手指放到机针附近。4. 为了防止人身事故的发生，缝纫机运转中请不要把手指放到挑线杆外罩内。5. 缝纫机操作中，旋梭高速地旋转。为了防止手受到伤害，运转中请绝对不要把手靠近旋梭。6. 为了防止人身事故的发生，放倒缝纫机或返回原来位置时，要注意不要夹住手。7. 为了防止突然的起动造成人身事故，放倒缝纫机时，或卸皮带罩和 V 形皮带时，请一定关掉电源。8. 使用伺服马达时，缝纫机停止马达无声音。为了防止意外的起动造成人身事故，请注意不要忘记关电源9. 为了防止触电事故，卸下电源地线的状态，请不要运转缝纫机。10. 为了防止触电和损坏电气零件，拔电源的插头时，请先关掉机器电源开关。

运转缝纫机前的注意事项



注意

为了防止机械的错误动作或损伤,请确认如下项目。

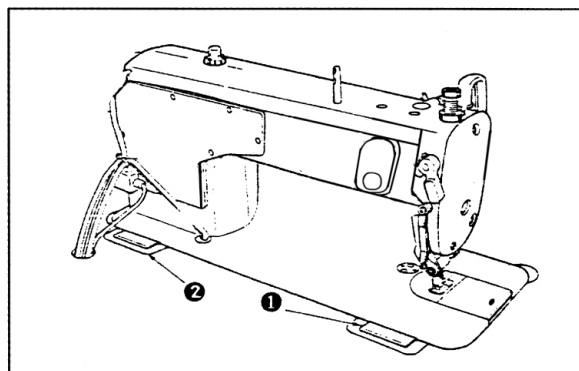
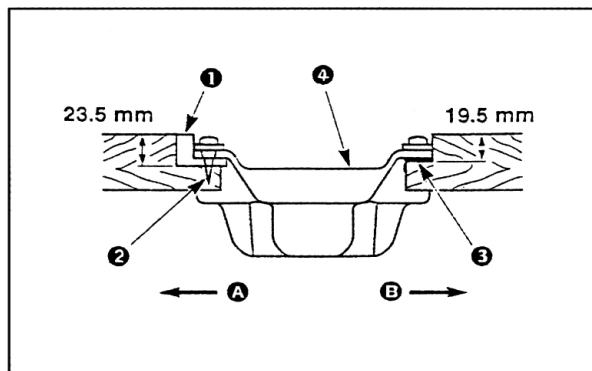
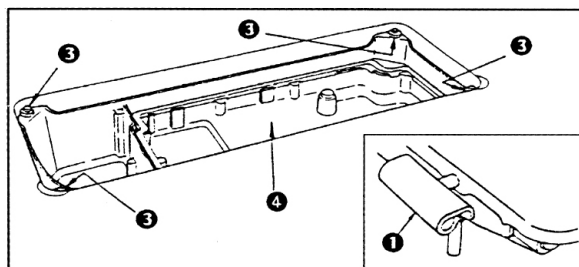
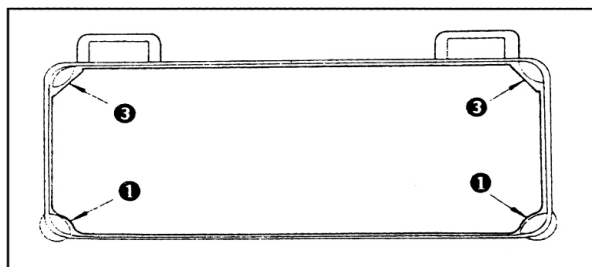
- 最初使用缝纫机之前，请把机器打扫干净。
- 清除运送中积存的灰尘，并加油。
- 请确认电压设定是否正确。
- 请确认电源插头是否正确连接。
- 电压规格不同时，请绝对不要使用。
- 缝纫机的转动方向是，站在飞轮侧看为逆时针方向。请注意不要让缝纫机反向转动。

1. SPECIFICATIONS / 规格

	6158	6158M	6158H
Application	General fabrics, light-weight and medium-weight materials	General fabrics, light-weight materials	Medium-weight materials, Heavy-weight materials
Sewing speed	Max. 5,000 rpm	Max. 4,000 rpm	Max. 3,500 rpm
Max. Stitch length	4mm		5mm
Needle	DB x 1 #9 to #18	DA x 1 #9 to #11	DB x 1 #20 to #23
Presser foot lift	10 mm (standard) 13 mm (Max.)	9 mm (Max.)	10 mm (standard) 13 mm (Max.)
Lubricating oil	New Defrix Oil No.1		
Noise	Workplace-related noise at sewing speed N=4,500 min ⁻¹ : LPA ≤ 83 dB (A) Noise measurement according to DIN 45635-48-A-1		

	6158	6158M	6158H
用途	一般布料、薄料、中厚料	一般布料、薄料	中厚料、厚料
缝纫速度	最高 5,000 rpm	最高 4,000 rpm	最高 3,500 rpm
最大针脚长度	4 mm		5 mm
机针	DB x 1#9 ~ #18	DA x 1 #9 ~ #11	DB x 1 #20 ~ #23
压脚高度 (膝动提升)	10mm (标准) 13mm (最大)	9mm (最大)	10mm (标准) 13mm (最大)
使用机油	NO.1 新机油		

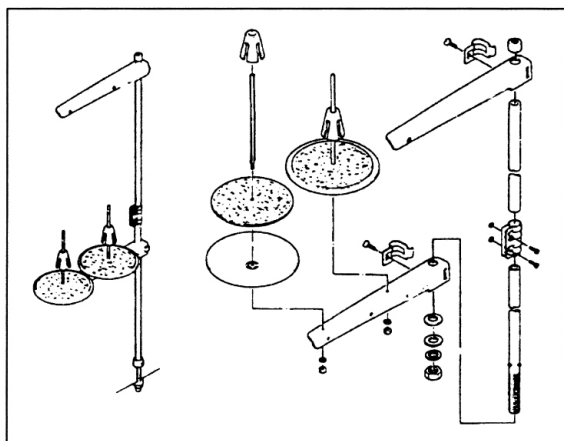
2. INSTALLATION / 缝纫机的安装



(1) Installing the under cover

- 1) The oil pan should rest on the four corners of the machine table groove.
- 2) Fix two rubber seats ① on side A (operator's side) using nails ② as illustrated above. Fix two cushion seats ③ on side B (hinged side) using a rubber-based adhesive. Then place oil pan ④ on the fixed seats.
- 3) Fit hinge ① into the opening in the machine bed, and fit the machine head to table rubber hinge ② before placing the machine head on cushions ③ on the four corners.

3. INSTALLING THE THREAD STAND / 线架装置的安装



4. LUBRICATION / 加油

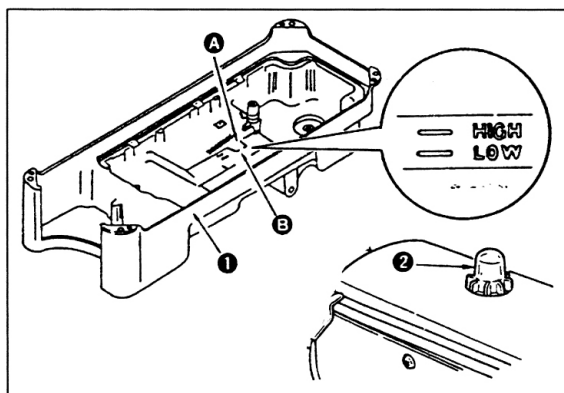


WARNING:

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

注意:

为了防止意外的起动造成的事故，请关掉电源后进行。



(1) Information on lubrication

- 1) Fill oil pan ① with JACK NEW Defrix Oil No. 1 up to HIGH mark ①
- 2) When the oil level lowers below LOW mark ②, refill the oil pan with the specified oil.
- 3) When you operate the machine after lubrication, you will see splashing oil through oil sight window ② if the lubrication is adequate.
- 4) Note that the amount of the splashing oil is unrelated to the amount of the lubricating oil.



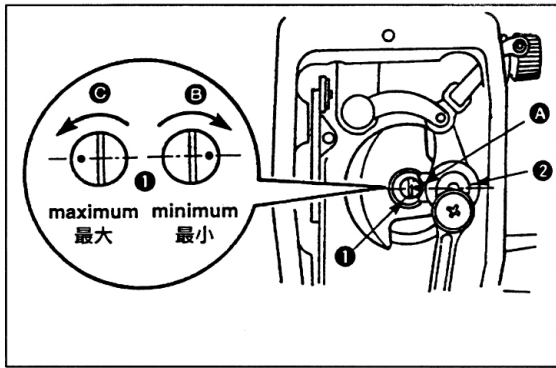
When you first operate your machine after setup or after an extended period of disuse, run your machine at 3,000 to 3,500 rpm. for about 10 minutes for the purpose of break-in.

(1) 运转缝纫机前

- 1) 请把 New Defrix No.1 机油倒进油槽 ① 里，一直加到 HIGH 标记 ① 的位置。
- 2) 油槽的油面降到 LOW 标记 ② 以下时，请再次补充机油。
- 3) 加油后运转缝纫机，如果润滑正常，可以通过油窗 ② 看到油的流动。
- 4) 油流动量的多少，与油量的多少无关。



新缝纫机或较长时间没有使用的缝纫机在使用之前，应进行 10 分钟 3,000~3,500 rpm 的磨合运转。



(2) Adjusting the amount of oil supplied to the face plate parts

- 1) Adjust the amount of oil supplied to the thread take-up and needle bar crank ② by turning adjust pin ①.
- 2) The minimum amount of oil is reached when marker dot A is brought close to needle bar crank ② by turning the adjust pin in direction B.
- 3) The maximum amount of oil is reached when marker dot A is brought to the position just opposite from the needle bar crank by turning the adjust pin in direction C.

(2) 面部油量的调整

- 1) 调整挑线杆和针杆曲轴部 ② 的油量时，转动油量调整销 ① 进行调整。
- 2) 调整销刻点 A 从图的位置向 B 方向转动，转动到接近针杆曲板 ② 时，油量最小。
- 3) 从图上所示的位置向 C 方向转动，当转到与针杆曲柄的正对的位置时，油量为最大。

5. ADJUSTING THE AMOUNT OF OIL (OIL SPLASHES) IN THE HOOK / 关于旋梭部油量(迹)调整方法



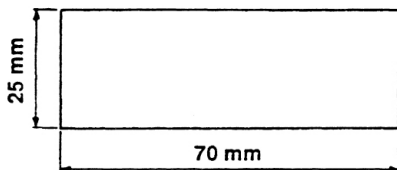
WARNING:

Be extremely careful about the operation of the machine since the amount of oil has to be checked by turning the hook at a high speed.

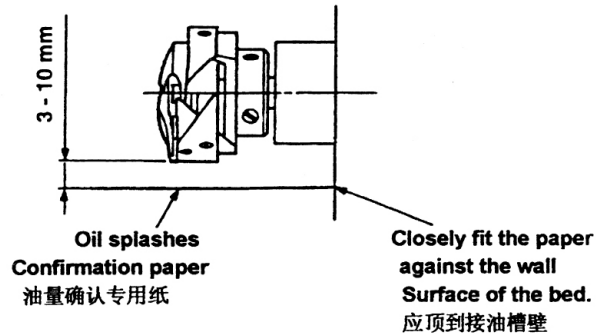
注意：

旋梭是以高速运转。为了防止人身事故，调整油量时，请加以充分的注意。

① Amount of oil (oil splashes) confirmation paper 油量确认专用纸张



② Position to confirm the amount of oil (oil splashes) 油量确认位置



* When carrying out the procedure described below in 2, remove the slide plate and take extreme caution not to allow your fingers to come in contact with the hook.

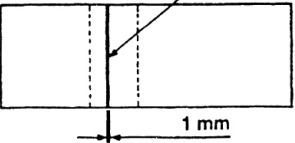
- 1) If the machine has not been sufficiently warmed up for operation, make the machine run idle for approximately three minutes. (Moderate intermittent operation)
- 2) Place the amount of oil (oil splashes) confirmation paper under the hook while the sewing machine is in operation.
- 3) Confirm the height of the oil surface in the oil reservoir is within the range between "HIGH" and "LOW".
- 4) Confirmation of the amount of oil should be completed in five seconds. (Check the period of time with a watch.)

* 进行下列 2) 的作业时，请卸下滑板，同时要充分注意手指不要碰到旋梭。

- 1) 冷机头时，请进行 3 分钟左右的空运转。(适当的断续运转)
- 2) 油量 (迹) 确认专用纸在缝纫机转动后的状态下插进去。
- 3) 请确认油量的油面高度应在 HI 和 LOW 的范围之内。
- 4) 确认油量 (迹) 所需要的时间为 5 秒钟。(应看着表)

● Sample showing the appropriate amount of oil / 油量（迹）适合标样

Splashes of oil from the hook / 从旋梭飞溅出来的油

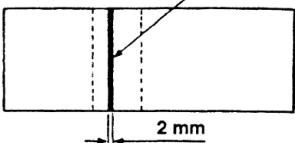


1 mm

6158M : 0.5 mm
6158H : 1 mm

Appropriate amount of oil (small)
油量适当（小）

Splashes of oil from the hook / 从旋梭飞溅出来的油



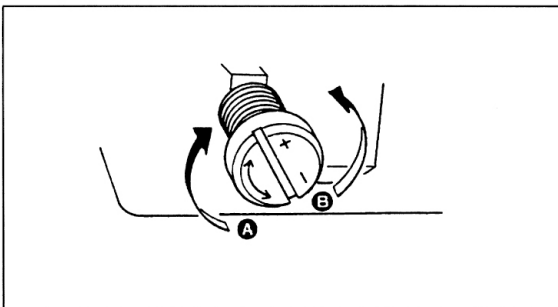
2 mm

6158M : 1 mm
6158H : 3 mm

Appropriate amount of oil (large)
油量适当（大）

- 1) The amount of oil shown in the samples on the left should be finely adjusted in accordance with sewing processes. Be careful not to excessively increase/ decrease the amount of oil in the hook.
(If the amount of oil is too small, the hook will be seized (the hook will be hot). If the amount of oil is too much, the sewing product may be stained with oil.)
 - 2) Adjust the amount of oil in the hook so that the oil amount (oil splashes) should not change while checking the oil amount three times (on the three sheets of paper)
- 1) 左图标样根据缝制供需需要微调增减，但注意不要过大增加或减少。
(油量过少时，会烧坏旋梭（发热）。油量过多时，会沾污缝制品。)
 - 2) 油量（迹）应确认 3 次（3 张）均无变化。

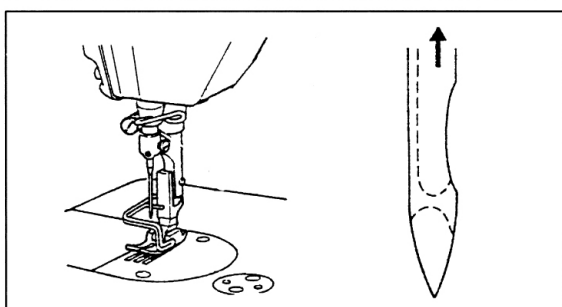
● Adjusting the amount of oil (oil spots) in the hook / 旋梭油量（迹）调整



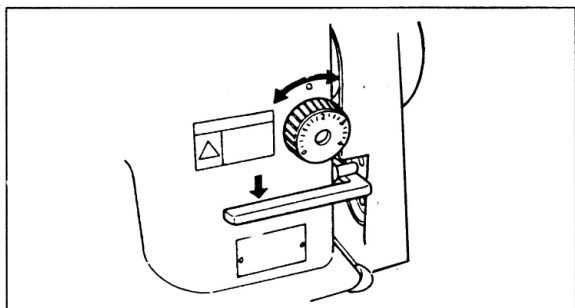
- 1) Turning the oil amount adjustment screw attached on the hook driving shaft front bushing in the "+" direction (in direction **A**) will increase the amount of oil (oil spots) in the hook, or in the "-" direction (in direction **B**) will decrease it.
 - 2) After the amount of oil in the hook has been properly adjusted with the oil amount adjustment screw, make the sewing machine run idle for approximately 30 seconds to check the amount of oil in the hook.
- 1) 把下轴前端金属部件上的油量调节螺丝向十的方向（**A**方向）转动，油量（迹）变多，向一的方向（**B**方向）转动，油量（迹）变少。
 - 2) 油量调节螺丝调整后的油迹，应空运转 30 秒钟左右进行油量（迹）的确认。

6 . ATTACHING THE NEEDLE / 机针的安装

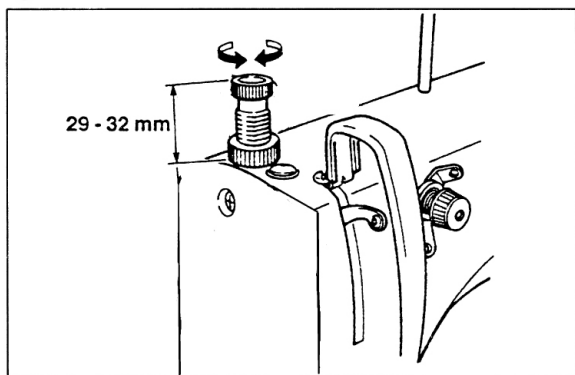
WARNING:
Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine .
注意：
为了防止意外的起动造成的事故，请关掉电源后进行。



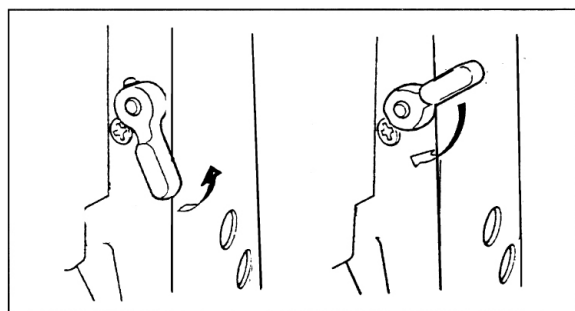
7 . ADJUSTING THE STITCH LENGTH / 缝迹长度的调节



8 . PRESSER FOOT PRESSURE / 压脚压力的调节



9 . HAND LIFTER / 关于压脚提升



10 . ADJUSTING THE HEIGHT OF THE PRESSER BAR / 压脚杆高度的调整

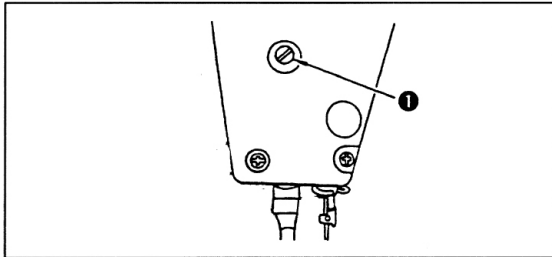


WARNING:

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

注意:

为了防止意外的起动造成的事故，请关掉电源后进行。



1) Loosen setscrew ❶, and adjust the presser bar height or the angle of the presser foot.

2) After adjustment, securely tighten the setscrew ❶.

1) 变更压脚杆的高度或压脚的角度时，请拧送压脚杆套管固定螺丝❶ 进行调整。

2) 调整后，拧紧固定螺丝❶。

11 . THREADING THE MACHINE HEAD / 上线的穿线方法

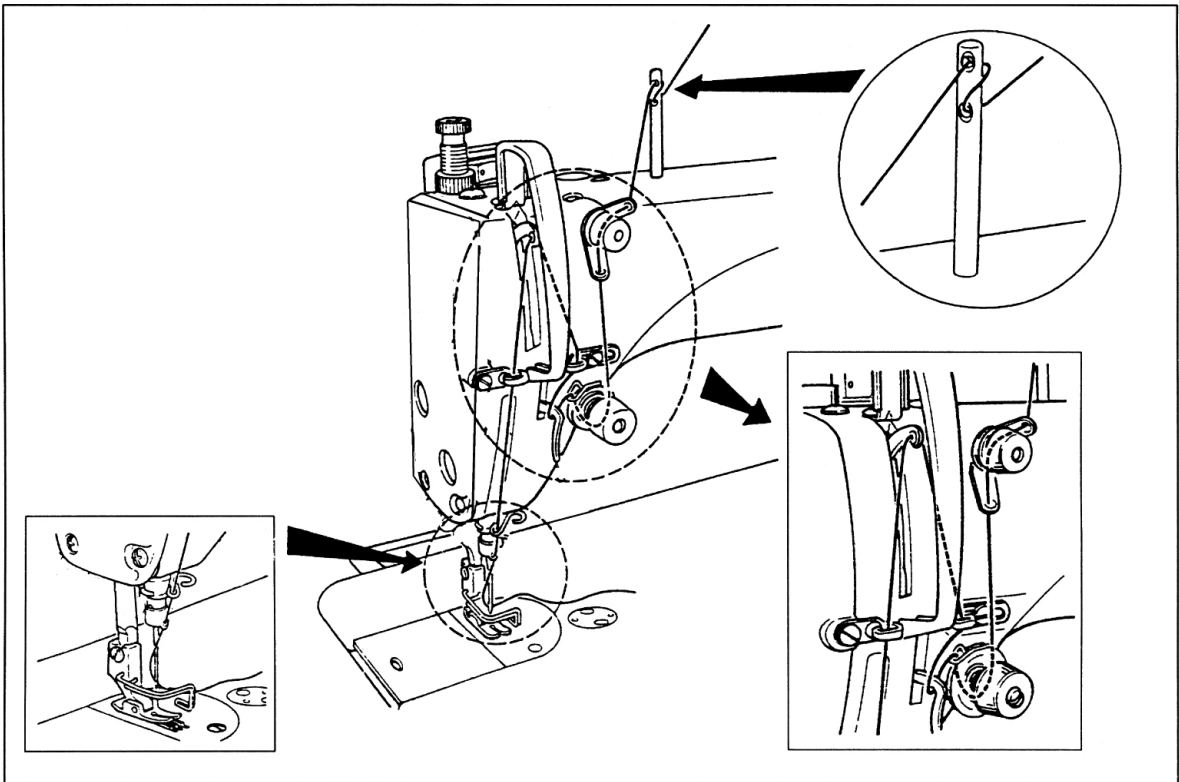


WARNING:

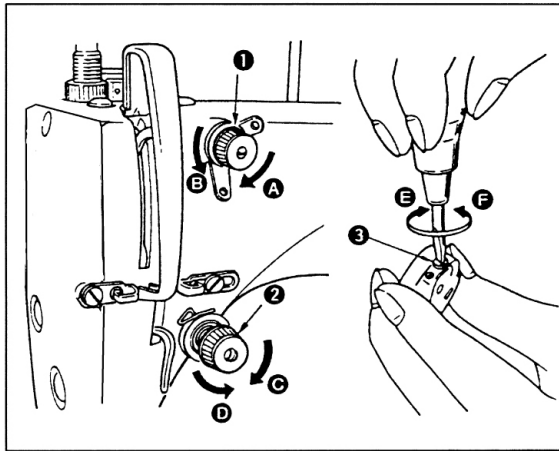
Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine .

注意:

为了防止意外的起动造成的事故，请关掉电源后进行。



12. THREAD TENSION / 线张力器



(1) 上线张力的调整

- 1) 向右 **A** 的方向转动第一线张力螺母 **1**，切线后残留在机针上的线长度变短。
- 2) 向左 **B** 的方向转动，则长度变长。
- 3) 向右 **C** 的方向转动第二线张力螺母 **2**，上线张力变强。
- 4) 向左 **D** 的方向转动，则上线张力变弱。

(2) 底线张力的调整

- 1) 向右 **E** 的方向转动线张力螺丝 **3**，底线张力变强。
- 2) 向左 **F** 的方向转动线张力螺丝，则底线张力变弱。

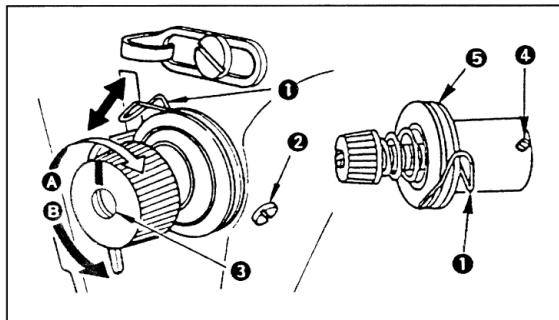
(1) Adjusting the needle thread tension

- 1) As you turn thread tension No.1 nut **1** clockwise (in direction **A**), the thread remaining on the needle after thread trimming will be shorter.
- 2) As you turn nut **1** counterclockwise (in direction **B**), the thread length will be longer.
- 3) As you turn thread tension No.2 nut **2** clockwise (in direction **C**), the needle thread tension will be increased.
- 4) As you turn nut **2** counterclockwise (in direction **D**), the needle thread tension will be decreased.

(2) Adjusting the bobbin thread tension

- 1) As you turn tension adjust screw **3** clockwise (in direction **E**), the bobbin thread tension will be increased.
- 2) As you turn screw **3** counterclockwise (in direction **F**), the bobbin thread tension will be decreased.

13. THREAD TAKE-UP SPRING / 挑线弹簧



(1) Changing the stroke of thread take-up spring **1**

- 1) Loosen setscrew **2**.
- 2) As you turn tension post **3** clockwise (in direction **A**), the stroke of the thread take-up spring will be increased.
- 3) As you turn the knob counterclockwise (in direction **B**), the stroke will be decreased.

(2) Changing the pressure of thread take-up spring **1**

- 1) Loosen setscrew **2**, and remove thread tension (asm) **5**.
- 2) Loosen setscrew **4**.
- 3) As you turn tension post **3** clockwise (in direction **A**), the pressure will be increased.
- 4) As you turn the post **3** counterclockwise (in direction **B**), the pressure will be decreased.

(1) 挑线弹簧 **1** 的行程量调整

- 1) 拧松线张力台的固定螺丝 **2**。
- 2) 向右 **A** 的方向转动线张力杆 **3**，则行程量变大。
- 3) 向左 **B** 的方向转动线张力杆 **3**，则行程量变小。

(2) 挑线弹簧 **1** 的压力调整

- 1) 拧松固定螺丝 **2**，卸下线张力杆 **5**。
- 2) 拧松线张力杆固定螺丝 **4** 进行调整。
- 3) 向右 **A** 的方向转动线张力杆 **3** 则压力变强。
- 4) 向左 **B** 的方向转动压力则压力变弱。

14 . ADJUSTING THE THREAD TAKE-UP STROKE / 挑线杆挑线量的调整

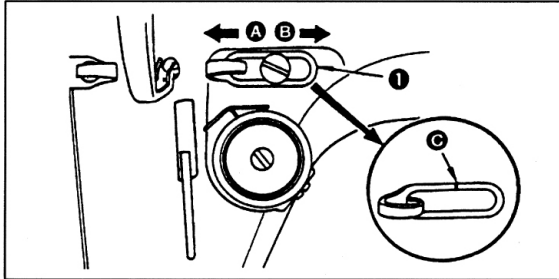


WARNING:

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

注意:

为了防止意外的起动造成的事故, 请关掉电源后进行。



- 1) When sewing heavy-weight materials, move thread guide ① to the left (in direction A) to increase the length of thread pulled out by the thread take-up.
 - 2) When sewing light-weight materials, move thread guide ① to the right (in direction B) to decrease the length of thread pulled out by the thread take-up.
 - 3) Normally, thread guide ① is positioned in a way that marker line C is aligned with the center of the screw.
- 1) 缝制厚料时,向左 A 的方向移动线导向器 ①, 则挑线量变多。
 - 2) 缝制薄料时,向右 B 的方向移动线导向器 ①, 则挑线量变少。
 - 3) 线导向器 ① 在刻线 C 对准螺丝的中心时是标准位置。

15 . NEEDLE-TO-HOOK RELATIONSHIP / 机针与旋梭的关系

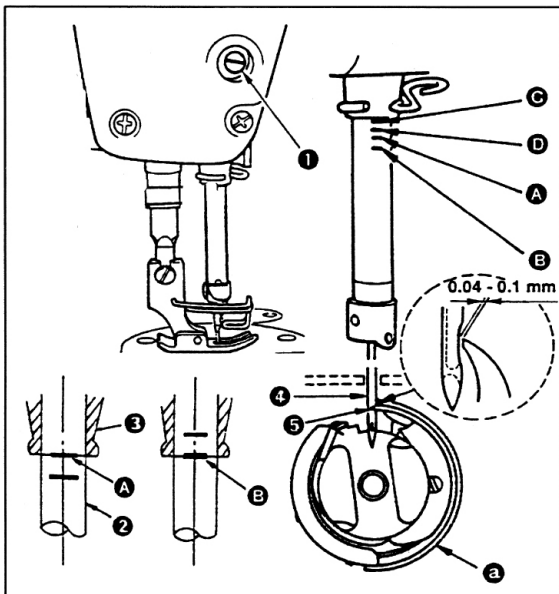


WARNING:

To avoid possible personal injury due to abrupt start of the machine, turn off the power to the machine and check to be sure that the motor has totally stopped rotating in prior.

注意:

为了防止突然起动造成人身事故, 请关掉电源, 确认马达确实停止转动后再进行。



- (1) Adjust the timing between the needle and the hook as follows:

- 1) Turn the handwheel to bring the needle bar down to the lowest point of its stroke, and loosen setscrew ① (Adjusting the needle bar height)
- 2) (For a DB needle) Align marker line A on needle bar ② with the bottom end of needle bar lower bushing ③, then tighten ① screw.
(For a DA needle) Align marker line C on needle bar ② with the bottom end of needle bar lower bushing ③, then tighten setscrew ①.

(Adjusting position of the hook ②)

- 3) (For a DB needle) Loosen the three hook setscrews, turn the handwheel and align marker line B on ascending needle bar ② with the bottom end of needle bar lower bushing ③.
(For a DA needle) Loosen the three hook setscrews, turn the handwheel and align marker line D on ascending needle bar ② with the bottom end of needle bar lower bushing ③.

- 4) After making the adjustments mentioned in the above steps, align hook blade point ⑤ with the center of needle ④. Provide a clearance of 0.04 mm to 0.1mm (: 0.06 to 0.17 mm) (reference value) between the needle and the hook, then securely tighten setscrews in the hook.



If the clearance between the blade point of hook and the needle is smaller than the specified value, the blade point of hook will be damaged. If the clearance is larger, stitch skipping will result.

(1) 请按如下方法调整机针和旋梭。

1) 转动飞轮,让针杆降到最下点,然后拧松针杆套管固定螺丝①。

(决定针杆高度)

2) [DB 针时]

把针杆②的刻线A对准针杆下铁块③的下端,然后拧紧针杆套管固定螺丝①。

[DA 针时]

把针杆②的刻线C对准针杆下铁块③的下端,然后拧紧针杆套管固定螺丝①。

(决定旋梭②的安装位置)

3) [DB 针时]

拧松3根旋梭固定螺丝,转动飞轮在针杆②上升的方向,把刻线B对准针杆下铁块③的下端。

[DA 针时]

拧松3根旋梭固定螺丝,转动飞轮在针杆②上升的方向,把刻线D对准针杆下铁块③的下端。

4) 在此状态下,让旋梭尖⑤对准机针④的中心,把机针与旋梭的间隙调整为0.04~0.1 mm (8900H-D : 0.06 ~ 0.17 mm) (大致),然后拧紧螺丝。



间隙过小的话,会损伤旋梭尖。间隙过大的话,会跳针。

16. HEIGHT OF THE FEED DOG / 送布牙的高度

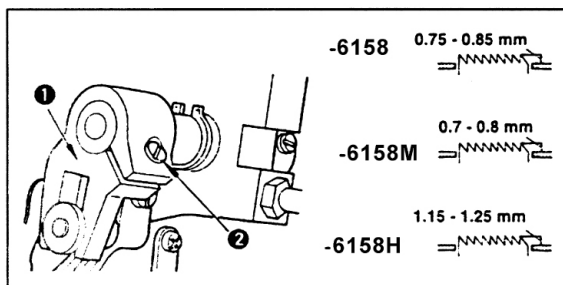


WARNING:

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

注意:

为了防止意外的起动造成的事故,请关掉电源后进行。



To adjust the height fo the feed dog:

- (1) Loosen screw ② of crank ①.
- (2) Move the feed bar up or down to make adjustment.
- (3) Securely tighten screw ②.



If the calmping pressure is insufficient, the motion of the forked portion becomes heavy.

调节送布牙的高度时

- (1) 拧松上送布拾牙叉①的紧固螺丝②。
- (2) 上下移动送布台进行调节。
- (3) 拧紧固定螺丝②。



紧固压力过弱的话,拾牙叉部的动作则变得不灵活了。

17. TILT OF THE FEED DOG / 送布牙的倾斜

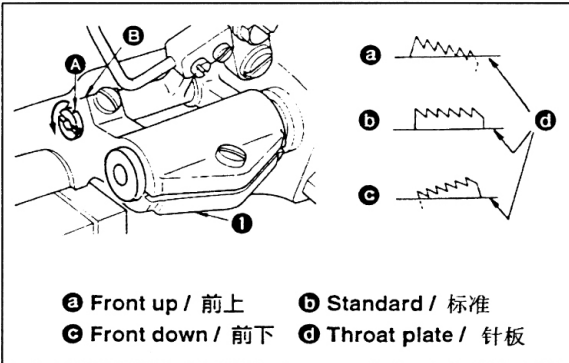


WARNING:

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注意:

为了防止意外的起动造成的事故, 请关掉电源后进行。



- 1) The standard tilt (horizontal) of the feed dog is obtained when marker dot **A** on the feed bar shaft is aligned with marker dot **B** on feed rocker **1**. (6158H, the marker dot **B** inclines forward the feed rocker shaft by 90°, as standard).
- 2) To tilt the feed dog with its front up in order to prevent puckering, loosen the setscrew, and turn the feed bar shaft 90° in the direction of the arrow, using a screwdriver.
- 3) To tilt the feed dog with its front down in order to prevent uneven material feed, turn the feed bar shaft 90° in the opposite direction from the arrow. (The standard tilt for -6158H)



Whenever the feed dog tilt is adjusted, the feed dog height will be changed. So, it is necessary to check the height after tilt adjustment.

- 1) 标准倾斜(水平)度是送布台轴的刻点 **A** 和送布台曲柄 **1** 的 **B** 部一致时的位置。(6158H 的标准倾斜是对 **B** 部呈 90 度水平送布面向轴侧的位置)
- 2) 为了防止缝制皱摺, 向前抬起送布时, 请拧松固定螺丝, 把螺丝刀插入送布台轴, 然后沿箭头方向转 90 度。
- 3) 为了减少布的偏斜, 向前下降送布牙时, 请沿与箭头方向相反方向转 90 度。(这是 -6158H 的标准位置)



注意了送布牙之后, 送布齿的高度会有变化, 请再次确认

18. ADJUSTING THE FEED TIMING / 送布相位的调节

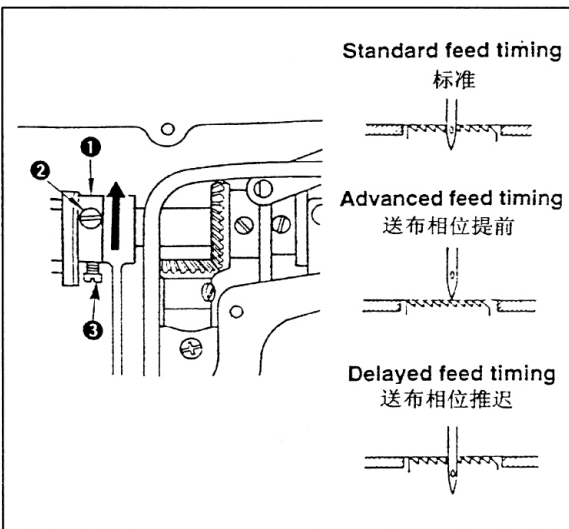


WARNING:

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注意:

为了防止突然起动造成人身事故, 请关掉电源, 确认马达确实停止转动后再进行。



- 1) Loosen screws **2** and **3** in feed eccentric cam **1**, move the feed eccentric cam in the direction of the arrow or opposite direction of the arrow, and firmly tighten the screws.
- 2) For the standard adjustment, adjust so that the top surface of feed dog and the top end of needle eyelet are flush with the top surface of throat plate when the feed dog descends below the throat plate.
- 3) To advance the feed timing in order to prevent uneven material feed, move the feed eccentric cam in the direction of the arrow.
- 4) To delay the feed timing in order to increase stitch tightness, move the feed eccentric cam in the opposite direction, move the feed eccentric cam in the opposite direction from the arrow.



Be careful not to move the feed eccentric cam too far, or else needle breakage may result.

- 1) 拧松送布偏心凸轮①的固定螺丝②③，朝箭头方向或反箭头方向移动送布偏心凸轮，然后拧紧固定螺丝。
- 2) 标准调节位置是送布牙从针板下落时，送布牙上面与针孔上端对准针板上面的位置。
- 3) 提早送布相位以防止布偏斜时，请向箭头方向移动送布偏心凸轮。
- 4) 为了良好的紧线而推迟相位时，请逆箭头方向移动偏心凸轮。



移动距离过大会发生断针故障。

19. COUNTER KNIFE / 固定刀

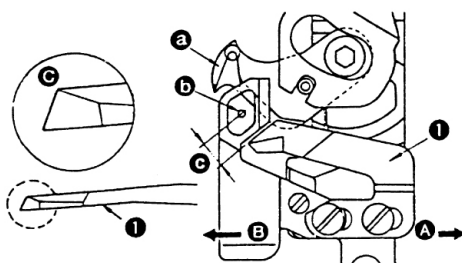


WARNING:

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注意:

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- Ⓐ Moving knife
- Ⓑ Center of needle
- Ⓒ Standard : 4.0mm (-6158H : 4.5mm)
- Ⓐ 移动刀
- Ⓑ 机针中心
- Ⓒ 标准: 4.0mm (-6158H : 4.5mm)

When the knife sharpness has deteriorated, resharpen counter knife ① as illustrated in ③, and properly reinstall it.

- 1) If the mounting position of the counter knife is moved in direction ④ from the standard mounting position, the thread length after thread trimming will be increased accordingly.
- 2) If the mounting position is moved in direction ⑤ the thread length will be decreased accordingly.



When re-sharpening the knife blade, Extra special care must be taken on the handling of the knife.

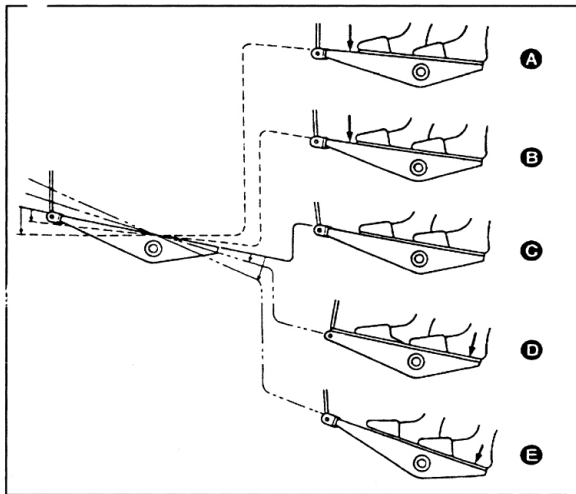
切刀不快时，请尽早如图③所示研磨固定刀①，然后正确地安装好。

- 1) 把固定刀的安装位置往标准位置的右④方向移动，切线长度比标准位置时长。
- 2) 往左⑤方向移动切线变短。



研磨固定刀时请注意研磨方法。

20 . PEDAL OPERATION / 踏板操作



(1) The pedal is operated in the following four steps:

- 1) The machine runs at low sewing speed when you lightly depress the front part of the pedal. **B**
- 2) The machine runs at high sewing speed when you further depress the front part of the pedal. **A**
(If the automatic reverse feed stitching has been preset, the machine runs at high speed after it completes reverse feed stitching)
- 3) The machine stops (with its needle up or down) when you reset the pedal to its original position. **C**
- 4) The machine trims threads when you fully depress the back part of the pedal. **E**

* If your machine is provided with the Auto-lifter (PF-9), an addition step is given between the machine stop and thread trimming step. The presser foot goes up when you lightly depress the back part of the pedal **D**, and if you further depress the back part, the thread trimmer is actuated.

(1) 踏板按 4 个阶段进行操作。

- 1) 向前轻轻踩踏板为低速缝制 **B**。
- 2) 再用力向前踩踏板则变为高速缝制 **A**。
(但是, 开关设定为自动倒缝时, 倒缝结束后进行高速缝制)
- 3) 把踏板返回到脚轻轻地放到踏板上的位置缝纫机停止 **C**。(机针上停止或下停止位置)
- 4) 用力向后踩踏板则为切线动作 **E**。

* 使用自动压脚提升装置 (PF-9) 时, 在停止和切线之间增加 1 级开关。向后轻轻的踩踏板为压脚提升动作 **D**, 再往后用力踩踏板为切线动作。

21. PEDAL PRESSURE AND PEDAL STROKE / 踏板压力和行程

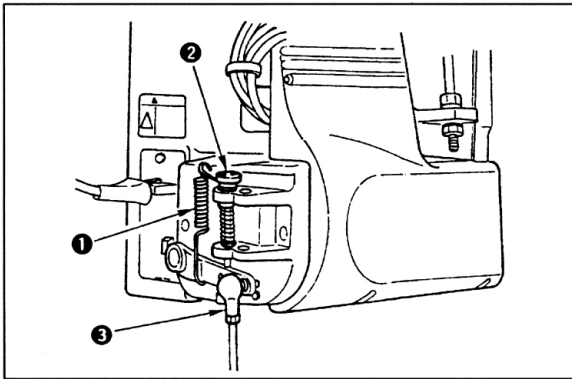


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注意:

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(1) Adjusting the pressure required to depress the front part of the pedal

- 1) This pressure can be changed by changing the mounting position of pedaling pressure adjust spring ① .
- 2) The pressure decreases when you hook the spring on the left side.
- 3) The pressure increases when you hook the spring on the right side.

(2) Adjusting the pressure required to depress the back part of the pedal

- 1) This pressure can be adjusted using regulator screw ② .
- 2) The pressure increases as you turn the regulator screw in.
- 3) The pressure decreases as you turn the screw out.

(3) Adjusting the pedal stroke

- 1) The pedal stroke increases when you insert connecting rod ③ into the right hole.

(1) 踏板踩踏压力的调整

- 1) 换成前踩踏弹簧① 可以调整。
- 2) 把弹簧挂到左侧之后, 压力变轻。
- 3) 挂到右侧之后变重。

(2) 踏板回踩力的调整

- 1) 用踏板回踩压力调节弹簧② 可以调整。
- 2) 拧进调节螺丝则压力变大。
- 3) 拧松调节螺丝则压力变小。

(3) 踏板踩踏行程的调整

- 1) 把连接杆③ 插到右侧的孔里之后行程变大。

22. ADJUSTMENT OF THE PEDAL / 踏板的调整

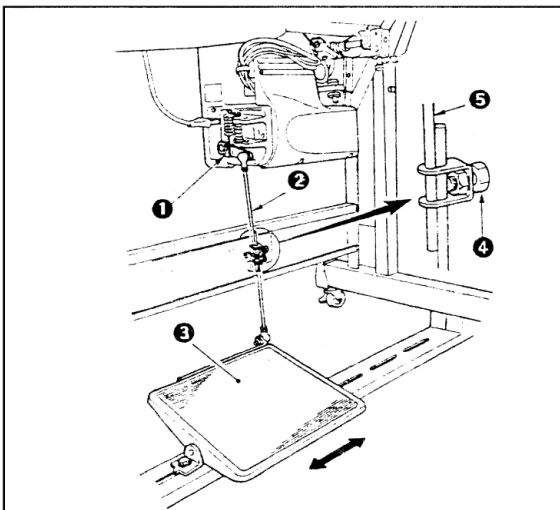


WARNING:

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注意:

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(1) Installing the connecting rod

- 1) Move pedal ③ to the right or left as illustrated by the arrow so that motor control lever ① and connecting rod ② are straightened.

(2) Adjusting the pedal angle

- 1) The pedal tilt can be freely adjusted by changing the length of the connecting rod.
- 2) Loosen adjust screw ④ , and adjust the length of connecting rod ⑤ .

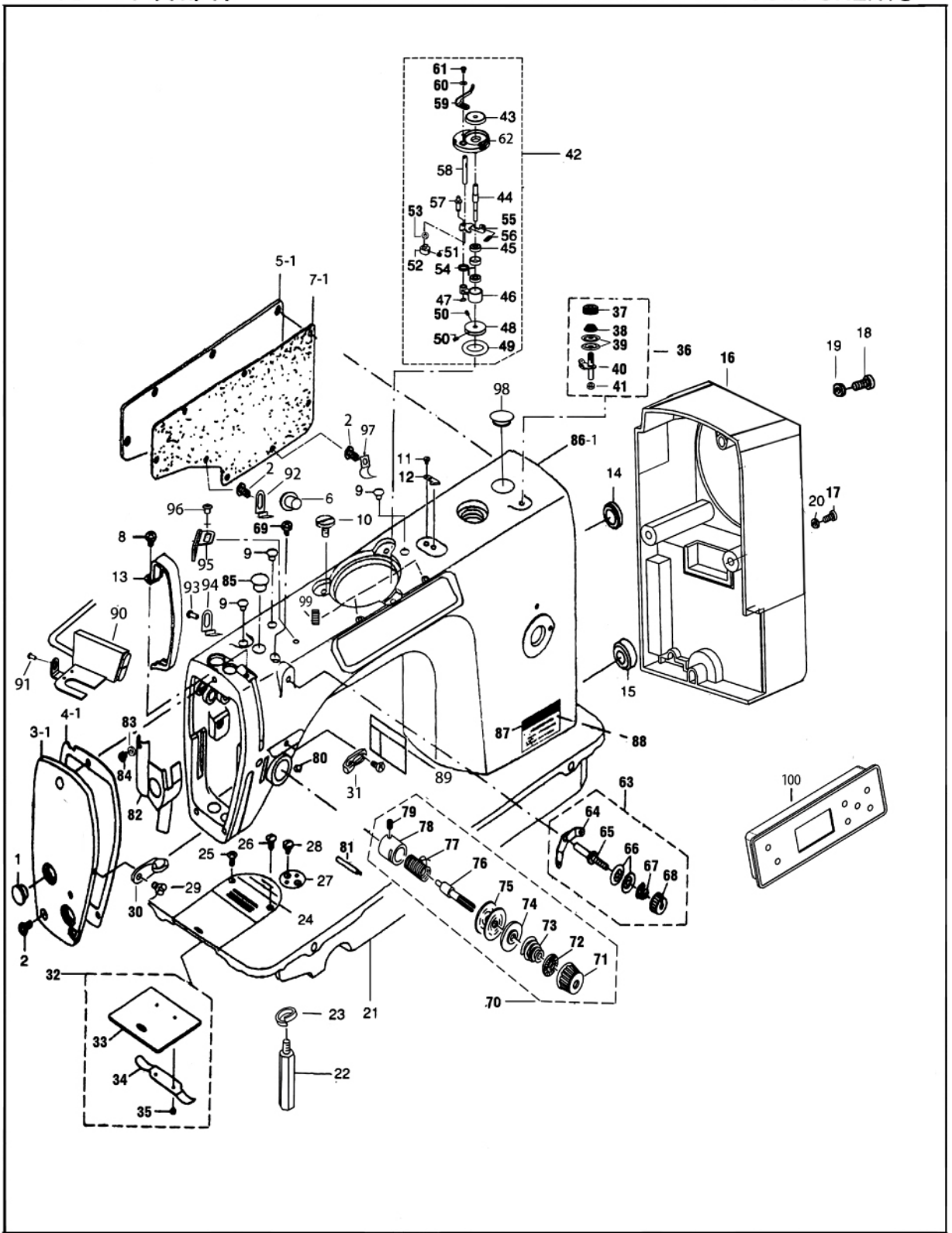
(1) 连接杆的安装

- 1) 向箭头方向移动踏板调节板③, 让踏板拨杆①和连接杆②呈一直线。

(2) 踏板的角度

- 1) 调节连接杆的长度就可以自由地改变踏板的倾斜度。
- 2) 拧松调节螺丝④, 拉出插入连接杆⑤ 进行调整。

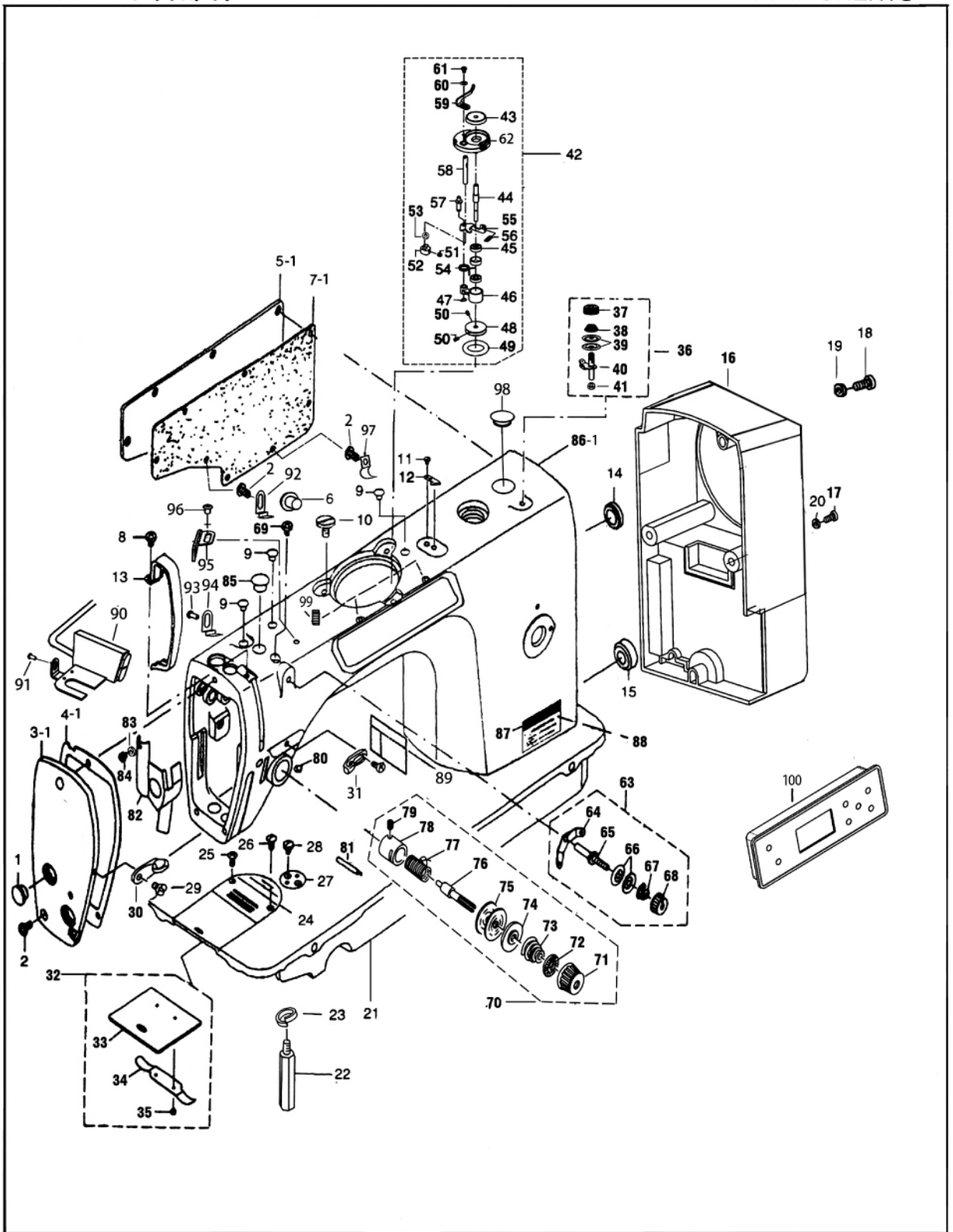
1.机壳·外装部件 MACHINE FRAME&MISCELLANEOUS COVER COMPONENTS



1. 机壳分组件 (MACHINE FRAME COMPONENTS)

序号 NO.	图号 REF NO.	名称	DESCRIPTION	6158	
				数量 (AMT)	
	M			H	
1	S8500-2201017	面板调节螺孔塞	RUBBER PLUG	2	2
2	LDSM3162804H09S	面板、后盖板螺钉	SCREW SM3/16×28 L=9+E6:E26E6:E2	13	13
3	S1-0101001	面板	FACE PLATE		
3-1	S8700D-0101001	面板	FACE PLATE	1	1
4	S1-2201002	面板垫	FACE PLATE GASKET		
4-1	S8700D-2201002	面板垫	FACE PLATE GASKET	1	1
5	S1-1201003	后窗板	SIDE PLATE		
5-1	S8700D-1201003	后窗板	SIDE PLATE	1	1
6	S1-2201004	立轴下套主头螺钉工艺孔塞	RUBBER PLUG	1	1
7	S1-2201005	后窗板垫	SIDE PLATE GASKET		
7-1	S8700D-2201004	后窗板垫	SIDE PLATE GASKET	1	1
8	LDSM31628 04H07S	挑线杆护罩螺钉	SCREW SM3/16×28 L=7	1	1
9	S8500-2201004	挑线连杆销螺孔塞	RUBBER PLUG	3	3
10	LDM506D10Y	绕线器螺钉	SCREW M5 L=10	3	3
11	LDSM9644006H05Y	割线刀螺钉	SCREW SM9/64×40 L=5	2	2
12	S1-1201006	割线刀	KNIFE	1	1
13	S1-1201007	挑线杆防护罩	THREAD TAKE-UP LEVER COVER	1	1
14	S8500-2201008	送料调节器孔塞	RUBBER PLUG	1	1
15	S8500-2201009	下轴孔工艺孔塞	RUBBER PLUG	1	1
16	S1-2901008	电控后罩控制器	CONTROL BOX COVER	1	1
17	LDM506H20L	电控罩壳螺钉	Screw M5 L=20	2	2
18	LDM506H25L	电控罩壳螺钉	Screw M5 L=25	2	2
19	DQ0105101D	电控罩壳螺钉垫圈	WASHER 5×10×1	4	4
20	DQ030508015H	电控罩壳弹簧垫圈	WASHER 5×8×1.5	4	4
21	S8500-0101022	底板	MACHINE HEAD BASE PLATE	1	1
22	S8500-3801019	底板支柱	MACHINE HEAD STUD SM15/64×28	4	4
23	DQ030610020H	开口弹簧垫片	OPEN SPRING GASKET	2	2
24	S1-1201009	针板	NEEDLE PLATE	1	
	S1-1201009-H	针板	NEEDLE PLATE		1
25	LDSM11644001H85S	针板螺钉 (十字)	SCREW SM11/64×40 L=8.5	1	1
26	LDSM11644001H85Y	针板螺钉	SCREW SM11/64×40 L=8.5	1	1
27	S8500-1201020	安装板	DEVICE ASSEMBLE PLATE	1	1
28	LDSM11644006D55Y	安装板定位螺钉	SCREW SM11/64×40 L=5.5	2	2
29	LDSM11644002H06Y	左线勾螺钉	SCREW SM11/64×40 L=6	2	2
30	S8500-1201016	左线勾	LEFT THREAD GUIDE B	1	1
31	S8500-1201012	右线勾	RIGHT THREAD GUIDE A	1	1
32	S8500-3901018	推板组件	SLIDE PLATE ASM	1	1
33	S8500-3901018-01	推板	SLIDE PLATE	1	1
34	S8500-3901018-02	推板簧	SLIDE PLATE SPRING	1	1
35	LDSM3325602D02Y	推板簧螺钉	SCREW SM3/32X56 L=2	2	2
36	S1-4101010	绕线夹线器组件	BOBBIN THREAD TENSION ASM.	1	1
37	S1-4101010-01	夹线螺母	THREAD TENSION NUT	1	1
38	S1-4101010-02	弹簧	SPRING	1	1
39	S1-4101010-03	夹线板	THREAD TENSION DISK	2	2
40	S1-4101010-04	中过线板组件	THREAD TENSION GUIDE PLATE ASM.	1	1
41	S1-4101010-05	螺母	NUT SM11/64×40	1	1
42	S1-4101011	绕线器组件	BOBBIN WINDER ASM.	1	1
43	S1-4101011-01	卷绕轴垫	CUSHING WINDING PAD	1	1
44	S1-4101011-02	梭芯卷绕轴	SHAFT	1	1
45	S1-4101011-03	O型圈	O-RING	2	2
46	S1-4101011-04	摆动板组件	CONNECTING ROD	1	1
47	S1-4101011-05	挡圈	SNAP RING	1	1
48	S1-4101011-06	绕线轮	BOBBIN WINDER WHEEL	1	1
49	S1-4101011-07	橡胶轮	RUBBER RING	1	1
50	S1-4101011-08	螺钉	SCREW	1	1
51	S1-4101011-09	螺钉	SCREW	1	1

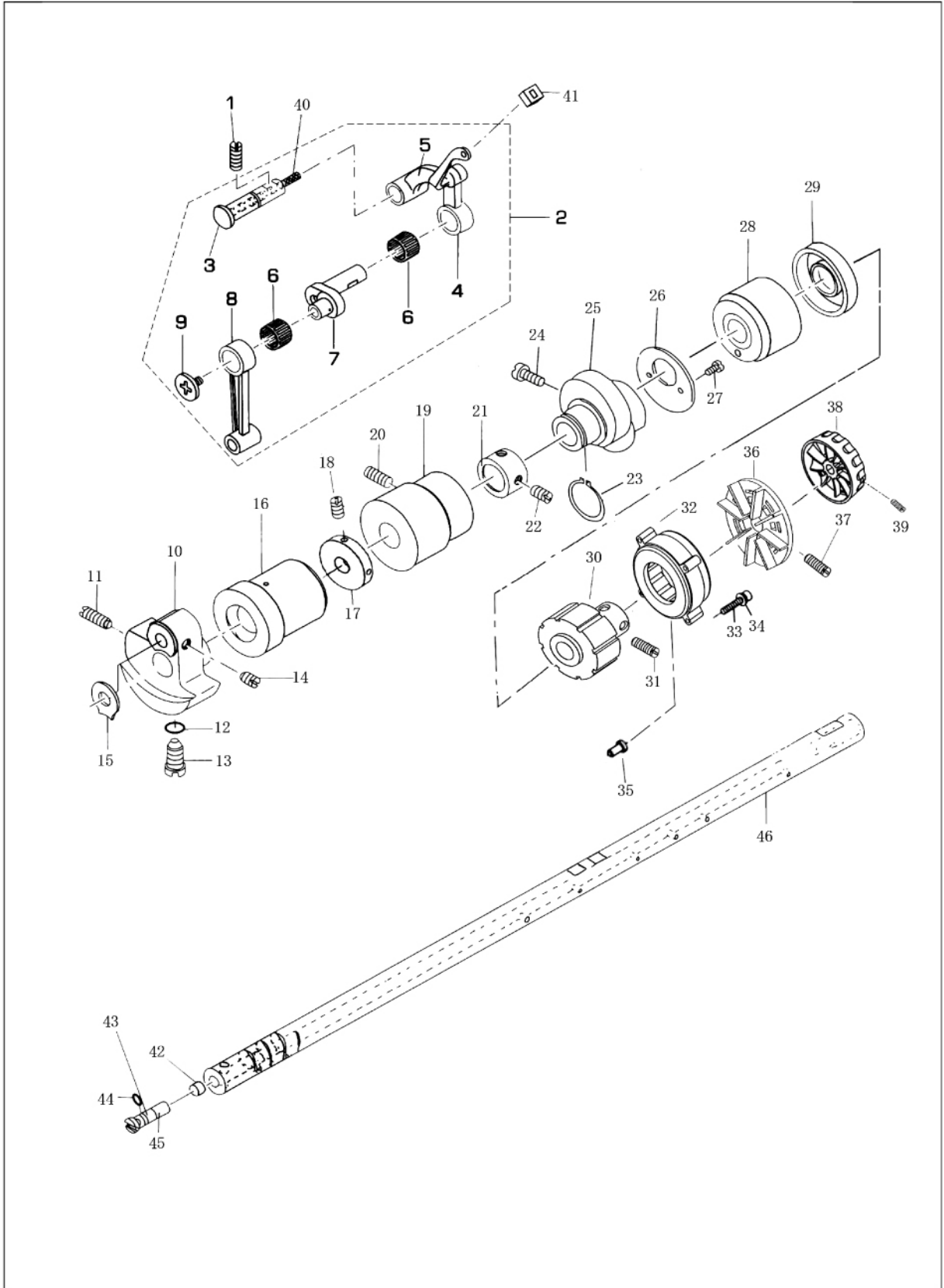
1.机壳·外装部件 MACHINE FRAME&MISCELLANEOUS COVER COMPONENTS



52	S1-4101011-10	绕线定位块	BOBBIN WINDER REGULATING PLATE	1	1
53	S1-4101011-11	垫圈	WASHER	1	1
	S1-4101011-12	O型圈 (无实物)	O-RING	1	1
54	S1-4101011-13	弹簧	SPRING	1	1
55	S1-4101011-14	控制板	ADJUSTING PLATE	1	1
56	S1-4101011-15	弹簧	SPRING	1	1
57	S1-4101011-16	绕线凸轮轴	BOBBIN SHAFT	1	1
	S1-4101011-17	挡圈 (无实物)	SNAP RING	1	1
58	S1-4101011-18	梭芯卷绕体组件	BOBBIN WINDER CAM SHAFT	1	1
59	S1-4101011-19	卷绕手柄	Bobbin lever	1	1
60	S1-4101011-20	线量调节板	Adjusting plate	1	1
61	S1-4101011-21	螺钉	Screw	1	1
62	S1-4101011-22	绕线座	BOBBIN WINDER BASE	1	1
63	S1-4101012	小夹线器组件	NEEDLE THREAD GUIDE PIN ASM	1	1
64	S1-4101012-01	夹线器过线板	THREAD TENSION GUIDE	1	1
65	S1-4101012-02	夹线螺钉	SCREW	1	1
66	S1-4101012-03	小夹线板	THREAD TENSION DISC	2	2
67	S1-4101012-04	小夹线簧	TENSION SPRING	1	1
68	S1-4101012-05	小夹线螺帽	TENSION NUT	1	1
69	LDM408H04L	小夹线器组件主头螺钉	SCREW M4 L=4	1	1
70	S1-4101013	夹线器组件	THREAD TENSION ASM	1	
	S1-4101013-H	夹线器组件	THREAD TENSION ASM		1
71	S1-4101013-01	夹线器螺母	TENSION NUT	1	1
72	S8500-4101013-02	夹线制动板	THREAD TENSION DISC STOPPER	1	1
73	S8500-4101013-03	夹线簧	THREAD TENSION SPRING	1	1
74	S8500-4101013-04	松线板	TENSION RELEASE DISC	1	1
75	S8500-4101013-05	夹线板	THREAD TENSION DISC	2	2
76	S8500-4101013-06	夹线螺钉(柱)	THREAD TENSION POST	1	1
77	S8500-4101013-07	挑线簧	TAKE-UP SPRING	1	
	S8500-4101013-07-H	挑线簧	TAKE-UP SPRING		1
78	S8500-4101013-08	挑线簧调节座	THREAD TENSION BASE	1	1
79	S8500-4101013-09	夹线座紧固螺钉	SCREW SM9/64×40 L=4	1	1
80	LDSM15642808H07Y	夹线器螺钉	SCREW SM15/64X28 L=7	1	1
81	S1-2601014	松线钉	TENSION RELEASE PIN	1	1
82	S8500-1201003	面部防油板	FACE OIL SHIELD ASM.	1	1
83	DQ01033070D	防油板螺钉垫片	GASKET	1	1
84	LDSM184402H04 Y	面部防油板螺钉	SCREW SM1/8×44 L=4	1	1
85	S8500-2201005	针杆曲柄螺孔塞	RUBBER PLUG	1	1
86	S1-0101015	机头	MACHINE HEAD		
86-1	S8700D-0101006	机头	MACHINE HEAD	1	1
87	S1-3601016	型号牌	MODEL PLATE	1	
	S1-3601016-H	型号牌	MODEL PLATE		1
	S8700D-3601005	型号牌	MODEL PLATE		
	S8700D-3601005-H	型号牌	MODEL PLATE		
88	S8500-3601025 (无图)	型号牌铆钉	MODEL PLATE RIVET	2	2
89	S8500-3601023	安全指示牌	SAFETY-INDICATING PLATE	1	1
90	S1-2901017	LED灯组件	REVERSE FEED SWITCH ASM.	1	1
91	LDSM3162804H07S	LED灯组件螺钉	SCREW SM3/16×28 L=7	1	1
92	S1-1201018	直角电线夹 (短)	RECTANGULAR WIRE CLAMP(SHORT)	1	1
93	LDSM3162804H07S	LED灯电线夹固定螺钉	SCREW SM3/16×28 L=7	1	1
94	S1-1201019	直角电线夹 (长)	RECTANGULAR WIRE CLAMP(LONG)	1	1
95	S1-1201020	三眼过线板	THREAD GUIDE PLATE	1	1
96	LDM402H05Y	三眼过线板螺钉	SCREW M4 L=5	1	1
97	S8700D-1201006	电线夹	RECTANGULAR WIRE CLAMP	1	
98	S1-2201021	调同步工艺孔橡皮塞	RUBBER PLUG	1	1
99	LDM408H8L	显示屏紧固螺钉	SCREW M4 L=8	2	2
100	S6158-2901022	显示屏	DISPLAY	1	1

2. 上轴及挑线杆分组件

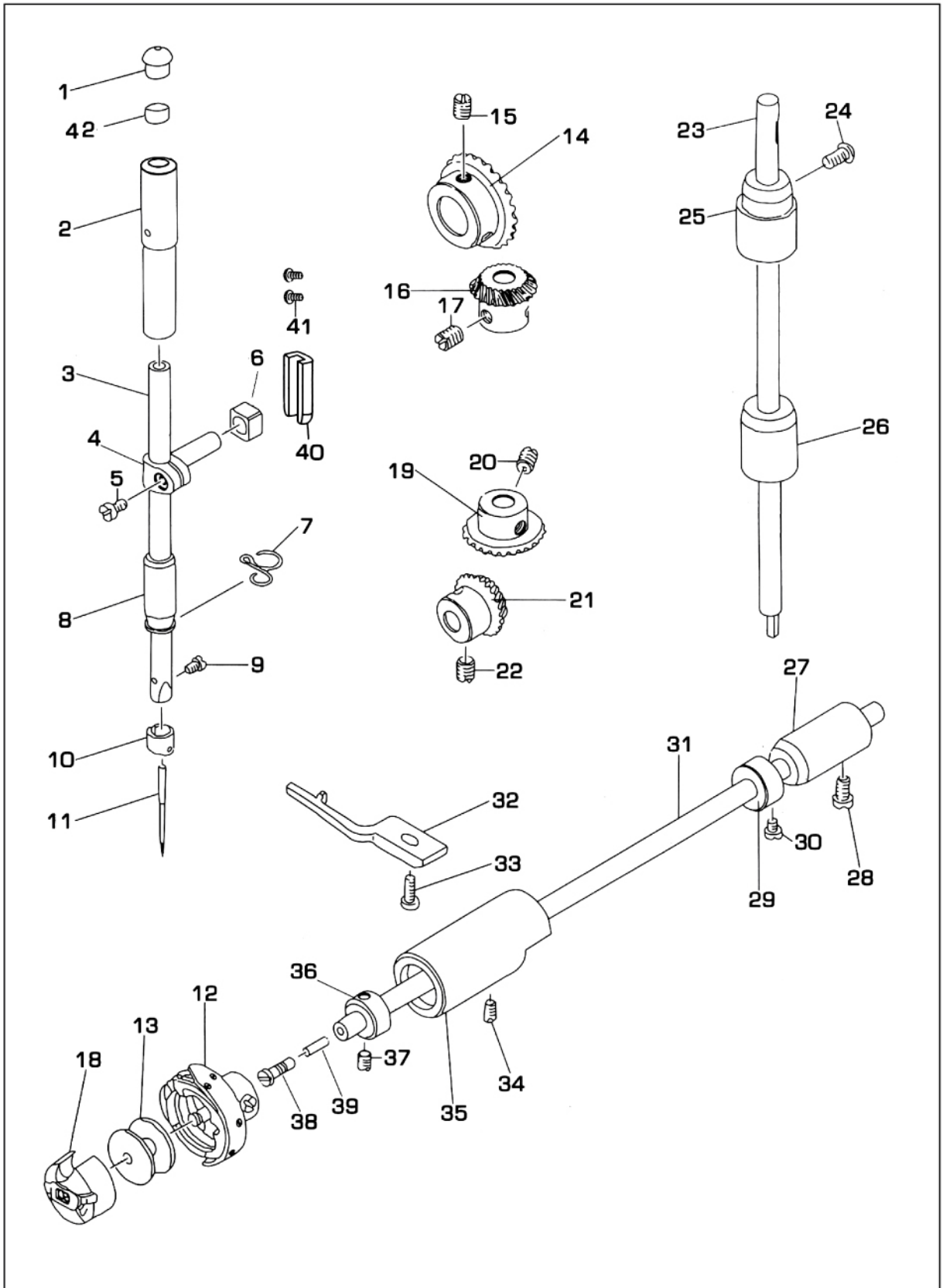
Main Shaft & Thread Take-up Lever Components



二、上轴及挑线杆分组件(MAIN SHAFT & THREAD TAKE-UP LEVER COMPONENTS)

序号 NO.	图号 REF NO.	名称	DESCRIPTION	6158	
				数量 (AMT)	
	M			H	
1	LDSM15642808H15Y	挑线连杆销螺钉	SCREW SM15/64X28 L=15	1	1
2	S8500-3702001	挑线杆大组件	THREAD TAKE-UP LEVER ASM	1	
	S8500-3702001-H	挑线杆组件 (大)	THREAD TAKE-UP LEVER ASM (BIG)		1
3	S8500-3702001-01	挑线连杆销	THREAD TAKE-UP LEVER PIN	1	1
4	S8500-3702001-02	挑线杆组件	THREAD TAKE-UP LEVER ASM	1	1
	S8500-3702001-02-H	挑线杆组件	THREAD TAKE-UP LEVER ASM		1
5	S8500-3702001-03	挑线连杆	THREAD TAKE-UP CONNECTING ROD	1	1
6	S8500-3702001-04	滚针轴承	NEEDLE BEARING B	2	2
7	S8500-3702001-05	挑线曲柄组件	NEEDLE BAR CRANK ASM	1	
	S8500-3702001-05-H	挑线曲柄组件	NEEDLE BAR CRANK ASM		1
8	S8500-3702001-06	针杆连杆	NEEDLE BAR CONNECTING ROD	1	1
9	S8500-3702001-07	挑线曲柄左旋螺钉	SCREW SM9/64×40 左	1	1
10	S8500-0402002	针杆曲柄	NEEDLE BAR CRANK	1	
	S8500-0402002-H	针杆曲柄	NEEDLE BAR CRANK		1
11	LDSM9322808H16Y	针杆曲柄紧固螺钉	SCREW SM9/32×28 L=16	1	1
12	S8500-2202012	定位螺钉O形圈	RUBBER RING	1	1
13	S8500-3802013	针杆曲柄定位螺钉	SCREW SM9/32×28 L=6	1	1
14	LDSM144008H06Y	针杆曲柄螺钉	SCREW SM1/4×40 L=6	2	2
15	S8500-1202014	针杆曲柄护板	NEEDLE BAR CRANK PROTECTING PLATE	1	1
16	S8500-0302003	上轴前轴套	MAIN SHAFT BUSHING FRONT ASM	1	1
17	S1-0102001	绕线从动轮	DRIVING WHEEL	1	1
18	LDSM11644008H10L	绕线从动轮紧固螺钉	SCREW SM11/64×40 L=10	2	2
19	S8500-0302004	上轴中轴套	MAIN SHAFT BUSHING MID	1	1
20	LDSM15642808H07Y	上轴中轴套螺钉	SCREW SM15/64×28 L=7	1	1
21	S8500-0802011	上轴挡圈	SNAP RING D=14.72 W=12	1	1
22	LDSM144008H06Y	上轴挡圈螺钉	SCREW SM1/4×40 L=6	2	2
23	S8500-2802010	拾牙连杆轴用挡圈	SNAP RING 18.5	1	1
24	LDSM144006H12Y	送料偏心轮螺钉	SCREW SM1/4×40 L=13	2	2
25	S8500-1002006	送料偏心轮	FEED DRIVE ECCENTRIC CAM	1	1
	S8500-1002006-H	送料偏心轮	FEED DRIVE ECCENTRIC CAM	1	1
26	S8500-1202007	送料偏心轮盖板	FEED DRIVE ECCENTRIC COVER	1	1
	S8500-1202007-H	送料偏心轮盖板	FEED DRIVE ECCENTRIC COVER	1	1
27	LDSM9644003H06Y	送料偏心轮盖板螺钉	SCREW SM9/64×40 L=6	2	2
28	S1-0302003 (S8500-0302	上轴后轴套 (S18700D不通用长短另出号	MAIN SHAFT BUSHING REAR ASM	1	1
29	S8500-2202009	上轴油封	OIL SEAL	1	1
30	S1-2902002	电机转子总成	MOTOR ROTOR	1	1
31	LDM608H06L	转子紧固螺钉	SCREW M6 L=6	2	2
32	S1-2902004	电机定子总成	MOTOR STATOR	1	1
33	LDM506H30L	定子紧固螺钉	SCREW M5 L=30	4	4
34	DQ030585150H	定子紧固螺钉弹簧垫圈	WASHER 5×8.5×1.5	4	4
35	LDSM3162804H07S	电机地线螺钉	SCREW SM3/16×28 L=7	1	1
36	S1-0102005	风叶	MOTOR FAN BLADE	1	1
37	LDM608H06L	风叶紧固螺钉	SCREW M6 L=6	2	2
38	S1-0102006	手轮	HAND WHEEL	1	1
39	LDM608H08L	手轮紧固螺钉	SCREW M6 L=8	2	2
40	S8500-2302005	挑线连杆销油线 φ3×50	OIL WICK	1	1
41	S8500-2202021	挑线杆防油套	RUBBER	1	1
42	S8500-2302017	曲柄油量限制垫	ROLLER FELT	1	1
43	S8500-2602018	曲柄油量调节销	OIL AMOUNT ADJUSTING PIN	1	1
44	S8500-2202019	曲柄油量调节销O形圈	RUBBER RING	1	1
45	S8500-2202020	曲柄油量调节销套	OIL AMOUNT ADJUSTING BUSHING	1	1
46	S8500-0202016	上轴	MAIN SHAFT	1	1

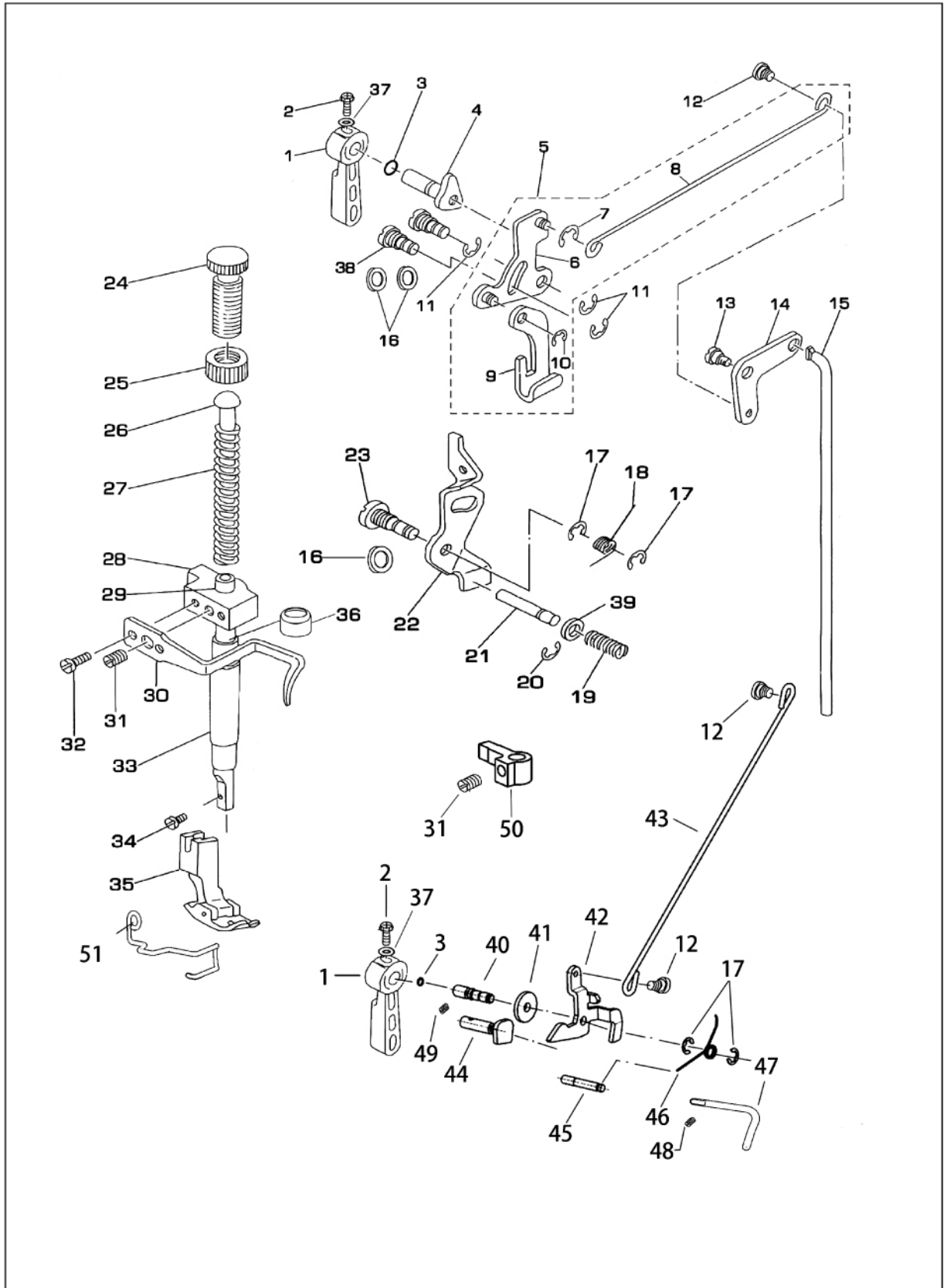
3. 针杆、旋梭轴分组件 Needle Bar & Hook Driving Shaft Components



三、针杆、旋梭轴分组件(NEEDLE BAR & HOOK DRIVING SHAFT COMPONENTS)

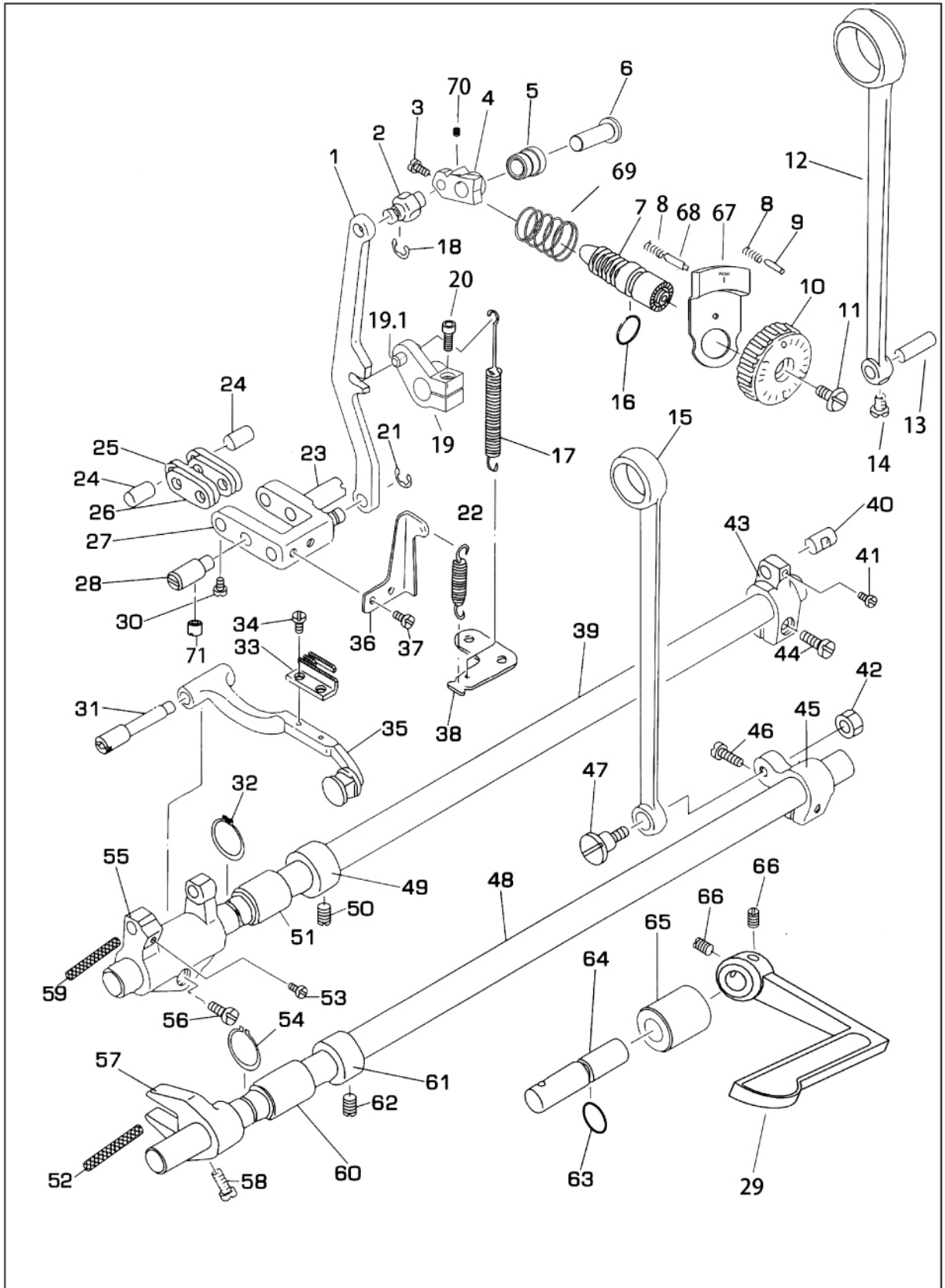
序号 NO.	图号 REF NO.	名称	DESCRIPTION	6158	
				数量 (AMT)	
	M			H	
1	S8500-2203001	针杆上衬套孔塞	RUBBER PLUG	1	1
2	S8500-0303002	针杆上衬套 (胶水槽有的好, 改成通用)	NEEDLE BAR BUSHING UPPER	1	1
3	S8500-0203003	针杆	NEEDLE BAR	1	
	S8500-0203003-H	针杆	NEEDLE BAR		1
4	S8500-0203004	针杆连接柱组件	NEEDLE BAR CONNECTION ASM.	1	1
5	LDSM9644006H7Y	针杆连接柱螺钉	SCREW SM9/64×40 L=7	1	1
6	S8500-0903005	针杆连接柱滑块	SLIDE BLOCK	1	
	S8500-0903005-H	针杆连接柱滑块	SLIDE BLOCK		1
7	S8500-2703006	针杆下轴套线勾	NEEDLE BAR THREAD GUIDE	1	1
8	S8500-0303007	针杆下轴套 (长)	NEEDLE BAR BUSHING LOWER (LONG)	1	
	S8500-0303007-H	针杆下轴套 (短)	NEEDLE BAR BUSHING LOWER (SHORT)		1
9	LDSM184406H4Y	支针螺钉	SCREW SM1/8×44 L=5	1	1
10	S8500-1203008	针杆过线环	NEEDLE BAR THREAD GUIDE	1	1
11	S8500-17DB×1 #14 不出图	机针 DB×1 #14	NEEDLE DB×1 #14	1	
	S8500-17DP×5 #22 不出图	机针 DP×5 #22	NEEDLE DP×5 #22		1
12	S8500-1203009 不出图	旋梭组件	HOOK ASM	1	
	S8500-1803009-H 不出图	旋梭组件	HOOK ASM		1
13	S8500-1203010	梭心	BOBBIN	1	1
14	S8500-2503011	上轴伞齿轮	UPPER SHAFT GEAR	1	1
15	LDSM144008H8Y	伞齿轮螺钉	SCREW SM1/4×40 L=8	2	2
16	S8500-2503012	竖轴上伞齿轮	UPPER SMALL GEAR	1	1
17	LDSM144008H7Y	伞齿轮螺钉	SCREW SM1/4×40 L=7	2	2
18	S8500-1803013	梭心套	BOBBIN CASE ASM	1	1
19	S8500-2503014	竖轴下伞齿轮	LOWER LARGE GEAR	1	1
20	LDSM144008H7Y	伞齿轮螺钉	SCREW SM1/4×40 L=7	2	2
21	S8500-2503015	下轴伞齿轮	HOOK DRIVE SHAFT GEAR	1	1
22	LDSM144008H7Y	伞齿轮螺钉	SCREW SM1/4×40 L=7	2	2
23	S8500-0203016	竖轴	UPRIGHT SHAFT	1	1
24	LDSM15642808H7Y	竖轴上轴套螺钉	SCREW SM15/64X28 L=7	1	1
25	S8500-0303017	竖轴上轴套	UPRIGHT SHAFT BUSHING UPPER	1	1
26	S8500-0303018	竖轴下轴套	UPRIGHT SHAFT BUSHING LOWER	1	1
27	S8500-0303019	下轴后轴套	HOOK DRIVING SHAFT BUSHING R	1	1
28	LDSM15642808H7Y	下轴后轴套螺钉	SCREW SM15/64X28 L=7	1	1
29	S8500-0803020	下轴挡油圈	SNAP RING ASM D=7.94 W=10	1	1
30	LDSM11644008H35Y	下轴挡油圈螺钉	SCREW SM11/64×40 L=3.5	2	2
31	S8500-0203021	下轴	HOOK DRIVING SHAFT	1	1
32	S1-1303001	旋梭定位钩(97、S1是专用的)	POSITIONING FINGER	1	1
33	LDSM11644006H95Y	旋梭定位钩螺钉	SCREW SM11/64×40 L=9.5	1	1
34	LDSM15642808H7Y	下轴前轴套螺钉	SCREW SM15/64X28 L=7	1	1
35	S8500-0303023	下轴前轴套组件	HOOK DRIVING SHAFT BUSHING A	1	1
36	S8500-0803024	下轴挡油圈	SNAP RING ASM D=7.94 W=7	1	1
37	LDSM11644006H5Y	下轴挡油圈螺钉	SCREW SM11/64×40 L=5	2	2
38	S8500-3803025	下轴限油螺钉	OIL SEAL SCREW ASM SM3/16×32	1	1
39	S8500-2303026	下轴限油芯	OIL WICK	1	1
40	S8500-0803027	针杆连接柱滑块槽	SLIDE BLOCK GROOVE	1	1
41	LDSM9644004H6Y	针杆连接柱滑块槽螺钉	SCREW SM9/64×40 L=6	2	2
42	S1-2303002	针杆上套孔毛毡	FELT 6×Φ8	1	1

4. 抬压脚分组件 Hand Lifter Components



四、抬压脚组件(FOOT LIFTER COMPONENTS)					
序号 NO.	图号	名称	DESCRIPTION	6158	
	REF NO.			数量 (AMT)	
				M	H
1	S8500-1104001	压脚扳手	HAND LIFTER	1	1
2	LDSM9644003H10Y	压脚扳手螺钉	SCREW SM9/64×40 L=10	1	1
3	S8500-2204002	压脚扳手轴O形圈	RUBBER RING	1	1
4	S8500-3904003	压脚扳手凸轮组件	HAND LIFTER CAM ASM	1	1
5	S8500-3904004	抬压脚杠杆部件	LIFTER LEVER ASM	1	1
6	S8500-3904004-00	抬压脚前杠杆组件	LIFTER FRONT LEVER ASM	1	1
7	EK051006	E型开口挡圈 (卡簧)	SNAP RING 5	1	1
8	S8500-3904004-01	抬压脚拉杆	LIFTING LEVER CONNECTING ROD	1	1
9	S8500-3904004-02	压脚升降板	LIFTING LEVER	1	1
10	EK051006	E型开口挡圈 (卡簧)	SNAP RING	1	1
11	EK051006	E型开口挡圈 (卡簧)	SNAP RING 5	2	2
12	S8500-3804005	抬压脚拉杆螺钉	HINGE SCREW SM3/16×32	1	1
13	S8500-3804006	后杠杆轴位螺钉	HINGE SCREW SM15/64×28	1	1
14	S8500-1204007	抬压脚后杠杆	LIFTING REAR LEVER RING	1	1
15	S8500-1204008	抬压脚顶杆	CONNECTING ROD	1	1
16	S8500-2204009	螺纹销密封垫圈	WASHER	3	3
17	EK051006	E型开口挡圈 (卡簧)	SNAP RING 5	2	2
18	S8500-2704010	松线顶板复位簧	RESET SPRING	1	1
19	S8500-2704011	松线辅钉弹簧	SPRING	1	1
20	EK040908	松线辅钉E型开口挡圈 (卡簧)	SNAP RING 4	1	1
21	S8500-2604012	松线辅钉	TENSION RELEASE SUPPORTING PI	1	1
22	S8500-1204013	松线顶板	TENSION RELEASE PLATE	1	1
23	S8500-3804014	松线顶板螺纹销	TENSION RELEASE PIN SM5/16×24	1	1
24	S8500-3804015-H	调压螺钉	PRESSER REGULATOR SCREW	1	1
25	S8500-3804016-H	调压螺母	PRESSER REGULATOR NUT SM	1	1
26	S8500-1204017	调压导杆	PRESSER GUIDE BAR	1	1
27	S8500-2704018	调压簧	PRESSER SPRING	1	1
28	S8500-0904019	压杆导架	PRESSER BAR GUIDE BRACKET	1	1
29	S8500-0204020	压杆	PRESSER BAR	1	1
30	S8500-1304021	缓线调节钩	PRESSER BAR THREAD GUIDE	1	1
31	LDSM144008H08Y	压杆导架螺钉	SCREW SM1/4×40 L=8	1	1
32	LDSM9644006H06Y	缓线调节钩螺钉	SCREW SM9/64×40 L=6	2	2
33	S8500-0304022	压杆衬套	PRESSER BAR BUSHING LOWER	1	1
34	LDSM9644002D11Y	活压脚螺钉	SCREW SM9/64×40 L=11	1	1
35	S8500-1604023	活压脚组件	PRESSER FOOT ASM.	1	
	S8500-1604023-H	活压脚组件	PRESSER FOOT ASM.		1
36	S8500-2204025	压杆轴套锥形防油套	RUBBER BUSHING	1	1
37	DQ013508080H	压脚扳手螺钉垫圈	WASHER 3.5×8×0.8	1	1
38	S8500-3804026	前杠杆螺纹销	PIN SM5/16×24	2	2
39	S8500-2204027	松线辅钉垫片	WASHER	1	1
40	S1-2604001	抬压脚前杠杆销	PIN		
41	DQ0163520030H	抬压脚前杠杆垫圈	WASHER 6.35×20×3		
42	S1-1204002	抬压脚前杠杆	KNEE LIFTER LEVER		
43	S1-1204003	抬压脚拉杆	LIFTING LEVER CONNECTING ROD		
44	S1-1204004	压脚扳手凸轮组件	FOOT LIFTER CAM ASM		
45	S1-2604005	前杠杆限位销	SPACER PIN		
46	S1-2704006	前杠杆复位簧	RELEASE RETURN SPRING		
47	S1-1204007	过线勾	Thread guide		
48	LDM408H04L	过线勾紧定螺钉	SCREW M4 L=4		
49	LDM408H04L	前杠杆限位销紧定螺钉	SCREW M4 L=4		
50	S1-1204008	压杆导架	PRESSER BAR GUIDE BRACKET		
51	S1-2704009	护指簧	PROTECTING FINGER SPRING	1	1

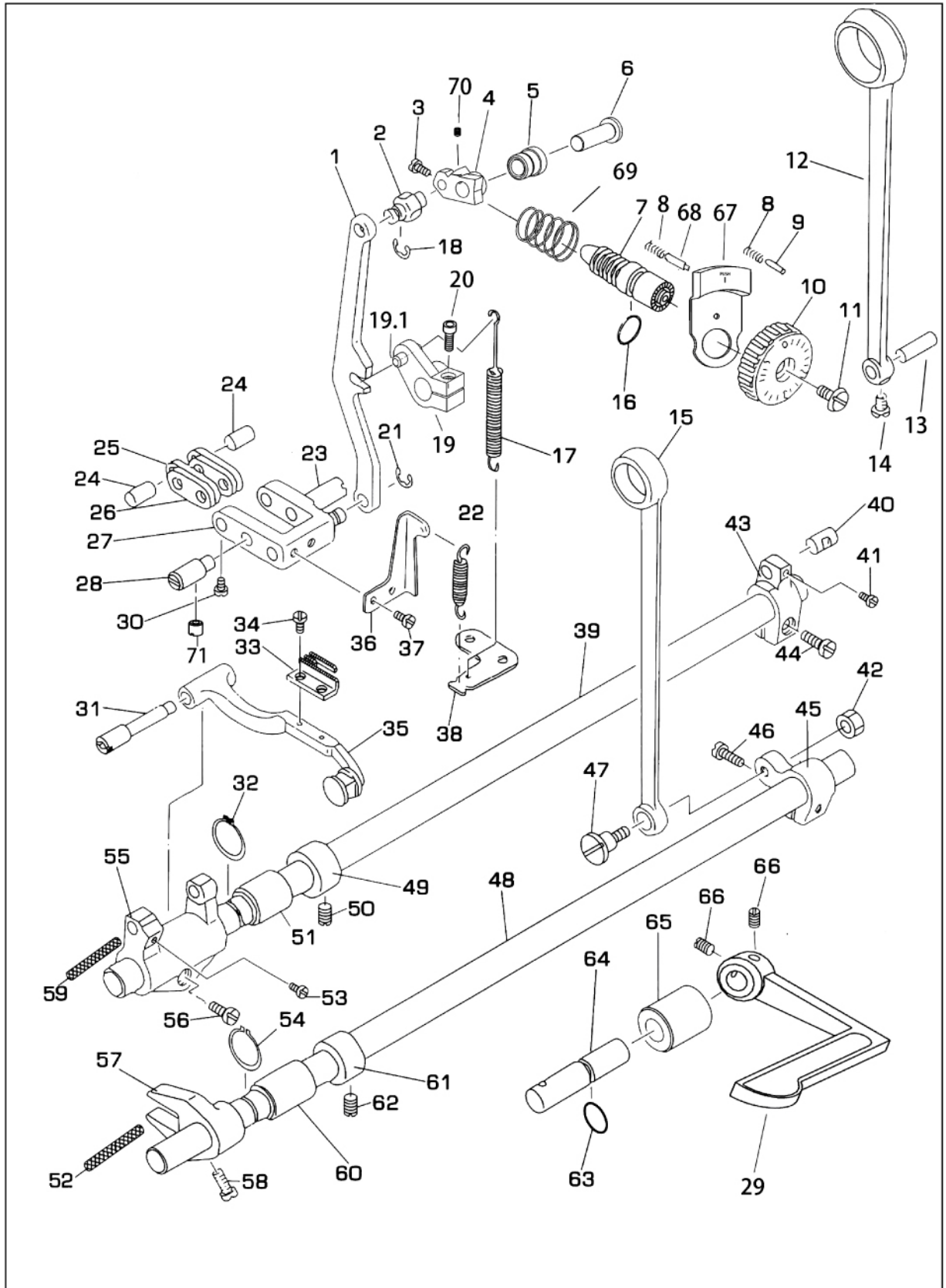
5. 送料分组件 Feed Mechanism Components



五、送料分组件(FEED MECHANISM COMPONENTS)

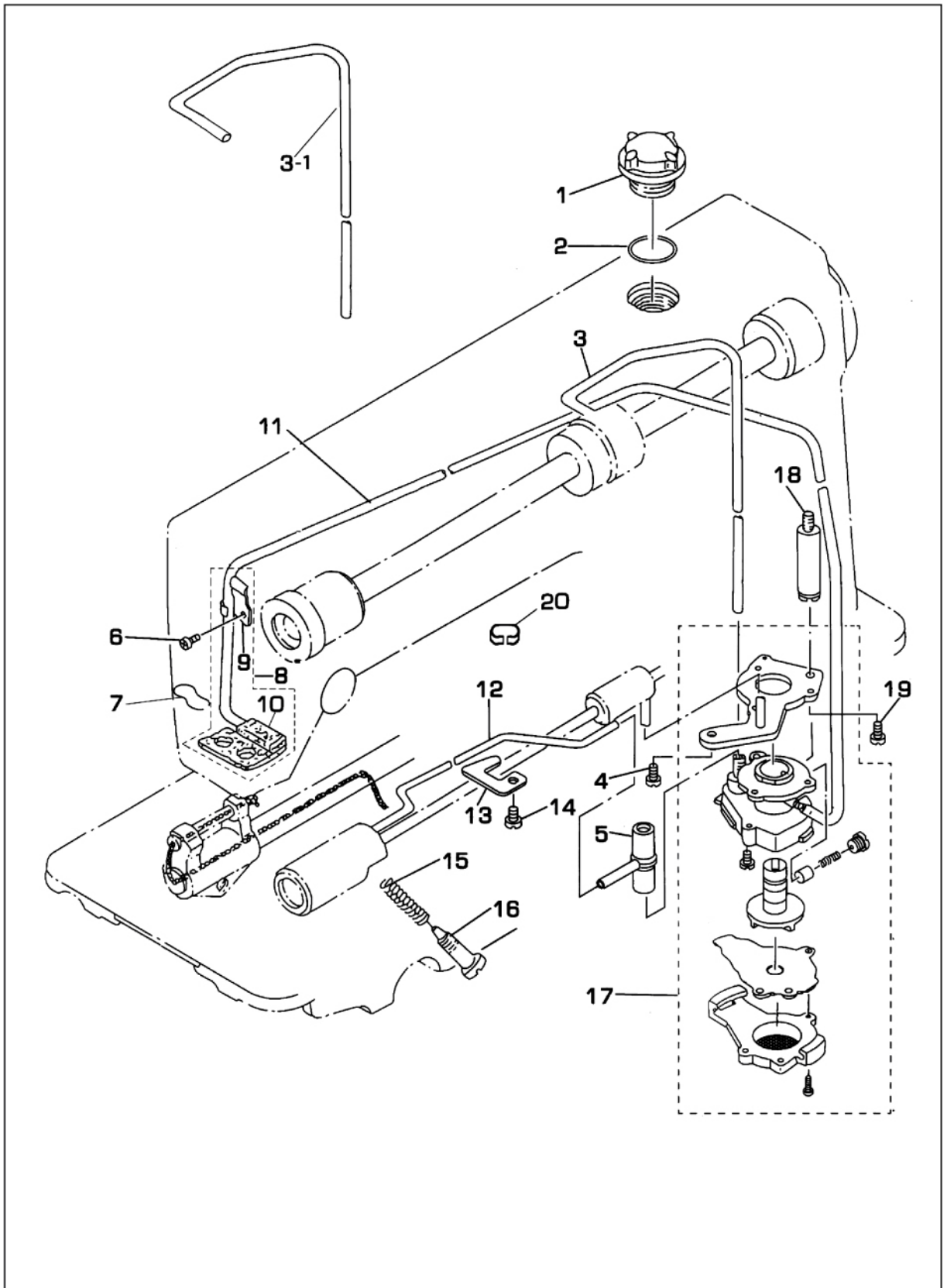
序号 NO.	图号 REF NO.	名称	DESCRIPTION	6158	
				数量 (AMT)	
	M			H	
1	S1-1205001	倒送料连杆	REVERSE FEED CONNECTING ROD	1	1
2	S8500-2605002	倒送料连杆销	REVERSE FEED CONNECTING PIN	1	1
	S8500-2605002-H	倒送料连杆销	REVERSE FEED CONNECTING PIN		1
3	LDSM9644003H05Y	送料连杆销螺钉	SCREW SM9/64×40 L=5	2	2
4	S1-0405002	送料调节器	FEED REGULATOR	1	1
5	S1-0305003	送料调节器轴套 (S1\8700D短另出号)	FEED REGULATR BUSHING	1	1
6	S1-2605004	针距座销	PIN	1	1
7	S1-3805005	送料调节螺柱	FEED REGULATOR STUD	1	1
8	S8500-2705005	送料距锁合簧	SPRING	1	1
9	S8500-2605006	送料距锁合销	PIN	1	1
10	S1-1105006	送料距旋钮	FEED DIAL	1	
	S8500-1105007-H	送料距旋钮	FEED DIAL		1
11	LDSM3162804H18Y	送料距旋钮螺钉	SCREW SM3/16×28 L=18	1	1
12	S8500-0505008	送料连杆	ROCKER SHAFT CONNECTING ROD	1	
	S8500-0505008-H	送料连杆	ROCKER SHAFT CONNECTING ROD		1
13	S8500-2605009	送料连杆销	CONNECTING ROD PIN	1	1
14	LDSM9644003H05Y	送料连杆销螺钉	SCREW SM9/64×40 L=5	1	1
15	S8500-0505010	抬牙连杆	CONNECTING ROD	1	1
16	S1-2205007	送料调节螺柱O形圈	RUBBER RING	1	1
17	S1-2705008	倒送料拉簧	FEED REVERSE SPRING	1	
	S8500-2705012-H	倒送料拉簧	FEED REVERSE SPRING		1
18	EK051006	E型开口挡圈 (卡簧)	SNAP RING 5	1	1
19	S8500-3905013	倒送料曲柄组件	FEED REVERSE CRANK ASM	1	1
19.1	S8500-3905013-00	倒送料曲柄销	PIN	1	1
20	LDSM3162806H15L	倒送料曲柄螺钉	SCREW 3/16-28 L=15	1	1
21	EK051006	E型开口挡圈 (卡簧)	SNAP RING 5	1	1
22	S8500-2705014	摆动板座复位簧	ADJUSTING LINK SPRING	1	1
23	S8500-2605015	送料摆动板座右销	RIGHT PIN	1	1
24	S8500-2605016	短摆动座连接销	CONNECTING PIN A	1	1
25	S8500-0505017	送料长摆动板	FEED LONG SHAKING PLATE	2	2
26	S8500-2605018	送料短摆动板	FEED SHORT SHAKING PLATE	2	
	S8500-2605018-H	送料短摆动板	FEED SHORT SHAKING PLATE		2
27	S8500-3905019	倒送料摆动板座组件	FEED REVERSE SHAKING PLATE BA	1	
	S8500-3905019-H	倒送料摆动板座组件	FEED REVERSE SHAKING PLATE BASE		1
28	S8500-2605020	送料摆动板座左销	LEFT PIN	1	1
29	S1-0105009	倒送料扳手	REVERSE FEED CONTROL LEVER	1	1
30	LDSM9644003H05Y	连接销螺钉	SCREW SM9/64×40 L=5	2	2
31	S8500-2605021	牙架销	FEED BAR PIN	1	1
32	CK141701	送料轴轴用挡圈	SNAP RING	1	1
33	S1-1405010	送料牙	FEED DOG A	1	

5. 送料分组件 Feed Mechanism Components



	S8500-1405022-H	送料牙	FEED DOG A		1
34	LDSM184402H06Y	送料牙螺钉	SCREW SM1/8×44 L=6	2	2
35	S1-0705011	牙架组件8500中心5.1, S18700D中心5.5	FEED BAR ASM	1	1
36	S8500-1205024	摆动板座复位板	ADJUSTING LINK PLATE	1	1
37	LDSM1164402H08Y	摆动板座复位板螺钉	SCREW SM11/64×40 L=8	2	2
38	S8500-1205025	拉簧固定板	FIXING PLATE	1	1
39	S8500-0205026	送料轴	FEED ROCKER SHAFT	1	1
40	S8500-2605027	送料曲柄销	FEED ROCKER CRANK PIN B	1	1
41	LDSM9644004H06Y	送料曲柄销螺钉	SCREW SM9/64×40 L=6	1	1
42	LMSM93228L05H	抬牙连杆轴位螺母	NUT 9/32×28	1	1
43	S8500-0405028	送料曲柄	FEED ROCKER SHAFT CRANK	1	
	S8500-0405028-H	送料曲柄	FEED ROCKER SHAFT CRANK		1
44	LDSM3162804H15Y	送料曲柄螺钉	SCREW SM3/16×28 L=15	1	1
45	S8500-0405029	抬牙曲柄	REAR CRANK ASM	1	1
46	LDSM3162802H12Y	抬牙曲柄螺钉	SCREW SM3/16×28 L=12	1	1
47	S8500-3805030	抬牙连杆轴位螺钉	HINGE SCREW	1	1
48	S8500-0205031	抬牙轴	FEED DRIVING SHAFT	1	1
49	S8500-0805032	送料轴挡圈	SNAP RING D=14.72 W=12	1	1
50	LDSM144008H06Y	送料轴挡圈螺钉	SCREW SM1/4×40 L=6	2	2
51	S8500-0305033	送料轴轴套	FEED ROCKER SHAFT BUSHING	1	1
52	S8500-2305042	油线Φ2.5×250mm	OIL WICK	1	1
53	LDSM11644002H08Y	牙架轴紧固螺钉	SCREW SM11/64×40 L=8	1	1
54	CK141701	抬牙轴轴用挡圈	SNAP RING	1	1
55	S1-0105012	牙架座 8500中心距23.23, S1/8700D中	FEED BAR ASM	1	1
56	LDSM3162802H12Y	牙架座螺钉	SCREW SM3/16×28 L=12	1	1
57	S8500-0405035	抬牙叉形曲柄	DRIVING SHAFT CRANK	1	1
58	LDSM11644002H105Y	抬牙叉形曲柄螺钉	SCREW SM11/64×40 L=10.5	1	1
59	S8500-2305043	油线Φ2.5×720mm	OIL WICK	1	1
60	S8500-0305036	抬牙轴轴套	FEED ROCKER SHAFT BUSHING	1	1
61	S8500-0805037	抬牙轴挡圈	SNAP RING D=14.72 W=12	1	1
62	LDSM144008H06Y	抬牙轴挡圈螺钉	SCREW SM1/4×40 L=6	2	2
63	S8500-2205038	倒送料轴O形圈	RUBBER RING	1	1
64	S1-0205013	倒送料轴	FEED REVERSE SHAFT	1	1
65	S1-0305014	倒送料轴套 (S1\8700D短另出号)	FEED REVERSE BUSHING	1	1
66	LDSM15642806H10Y	倒送料扳手紧固螺钉	SCREW SM15/64×28 L=10	2	2
67	S1-1205015	锁针距挡板	NEEDLE GAUGE LOCKER	1	1
68	S1-2605016	针距调节旋钮限位销	PIN	1	1
69	S1-2705017	送料调节旋钮弹簧	SPRING	1	1
70	LDM508H06L	针距座固定螺钉	SCREW M5 L=6	2	2
71	LDSM15642808H105Y	左右销固定螺钉	SCREW SM15/64×28 L=10.5	2	2

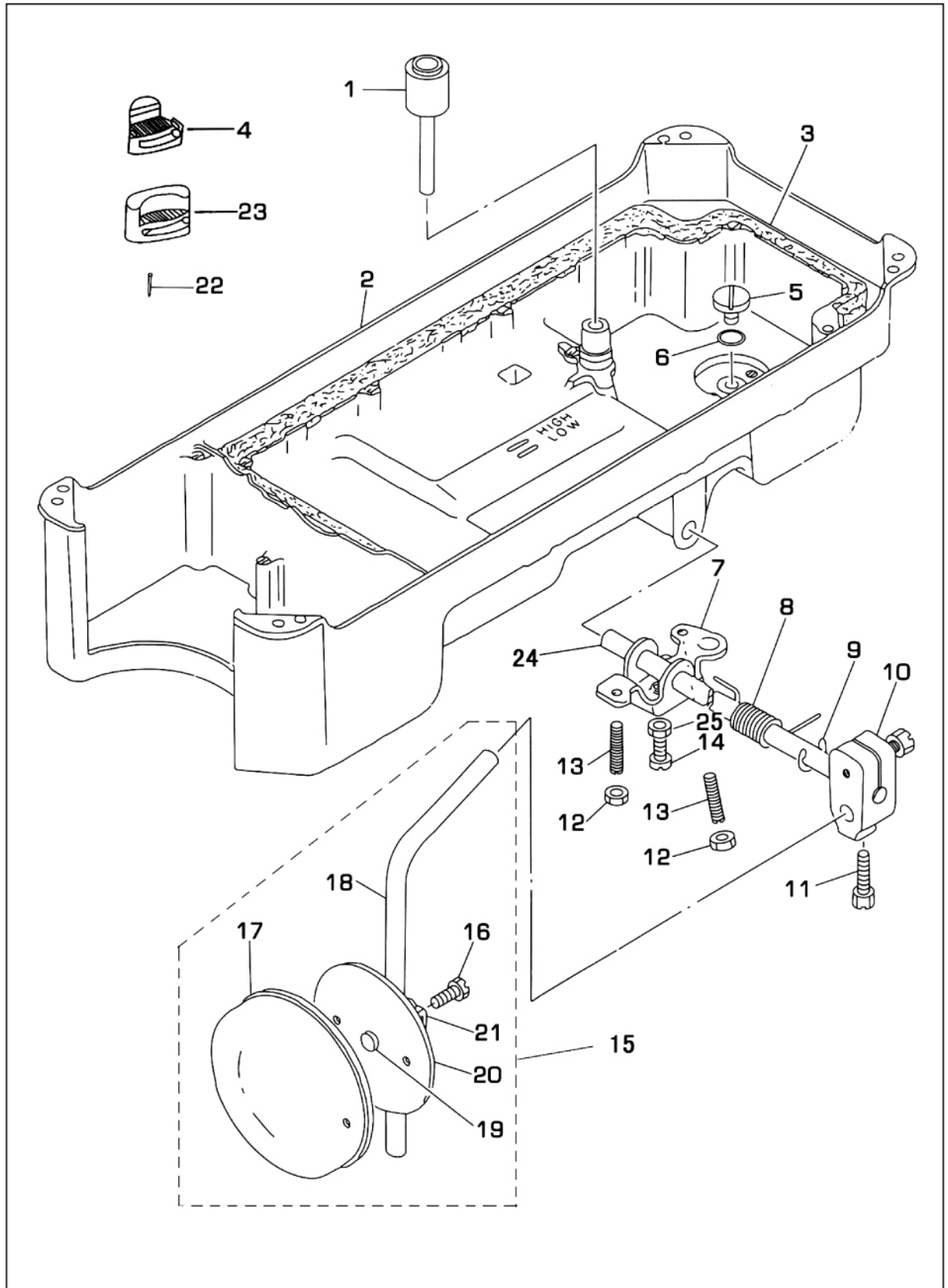
6. 润滑分组件 Oil Lubrication Components



六、润滑分组件(OIL LUBRICATION COMPONENTS)

序号 NO.	图号	名称	DESCRIPTION	6158	
	REF NO.			数量 (AMT)	
				M	H
1	S8500-1106001	油窗	OIL SIGHT WINDOW	1	1
2	S8500-1106002	油窗O形圈	RUBBER RING	1	1
3	S8500-2106003	上轴供油管	MAIN SHAFT OIL TUBE	1	1
3-1	S1-2106001	上轴供油管 (长)	MAIN SHAFT OIL TUBE		
4	LDSM15642803H09Y	油泵安装螺钉	SCREW SM15/64×28 L=9	1	1
5	S8500-2206004	供油管接头	RUBBER JOINT	1	1
6	LDSM3162804H06Y	回油管夹螺钉	SCREW SM3/16×28 L=6	1	1
7	S8500-2706005	回油毡夹	OIL FELT CLAMP	1	1
8	S8500-3906006	回油管组件	OIL RETURN TUBE ASM	1	1
9	S8500-1206007	回油管夹	OIL RETURN TUBE CLAMP	1	1
10	S8500-2306008	回油毡组件	OIL FELT ASM	1	1
11	S8500-2106009	回油管	OIL RETURN TUBE	1	1
12	S8500-2106010	旋梭轴供油管	HOOK DRIVING SHAFT OIL TUBE	1	1
13	S8500-1206011	旋梭轴供油管压板	PLATE	1	1
14	LDSM15642803H09Y	压板螺钉	SCREW SM15/64×28 L=9	1	1
15	S8500-2706012	旋梭油量调节簧	SPRING	1	1
16	S8500-3806013	旋梭油量调节螺钉	OIL ADJUSTING SCREW	1	1
17	S8500-2006014	油泵组件	LUBRICATING OIL PUMP ASM	1	1
18	S8500-3806015	油泵支柱	OIL PUMP PIN SM15/64×28	1	1
19	LDSM11644006H95Y	油泵支柱连接螺钉	SCREW SM11/64×40 L=9.5	1	1
20	S8500-2106016	油线夹	CLAMP	1	1

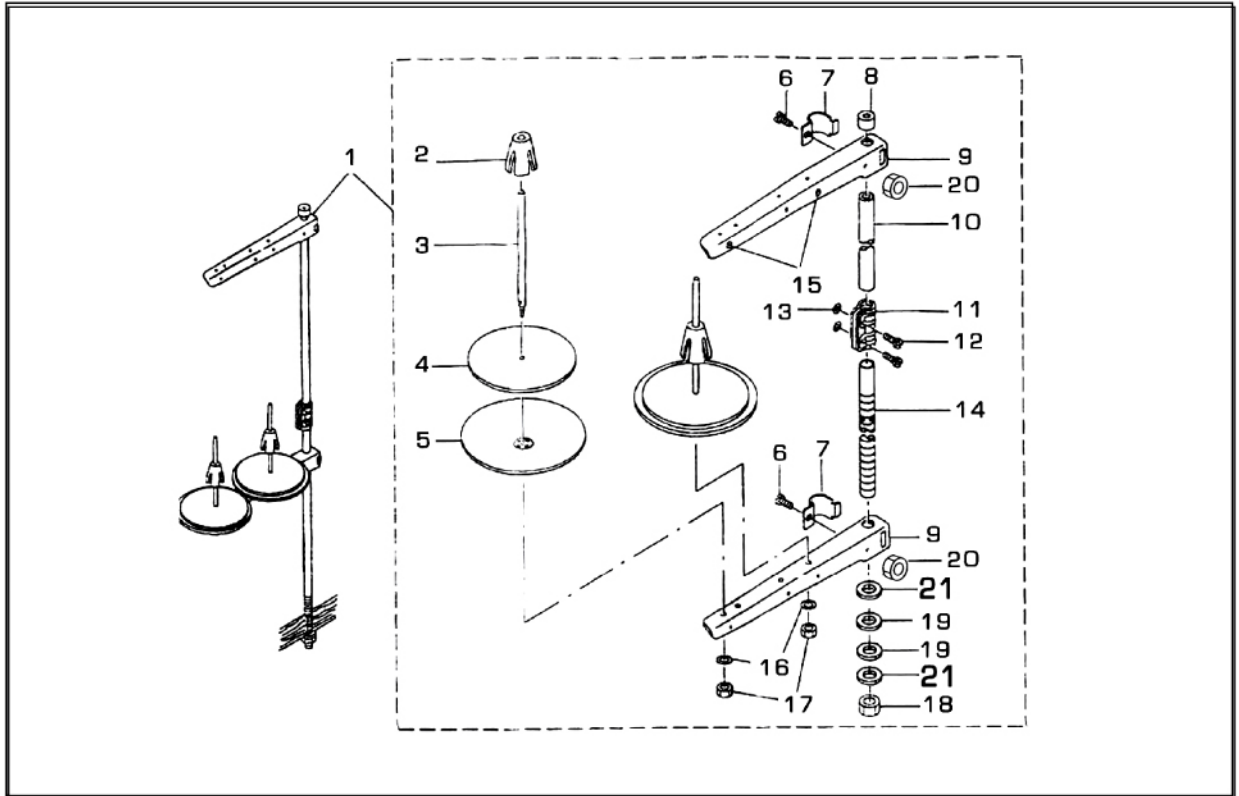
7. 油盘分组件 Oil Reservoir Components



七、油盘分组件(OIL RESERVOIR COMPONENTS)

序号 NO.	图号	名称	DESCRIPTION	6158	
	REF NO.			数量 (AMT)	
				M	H
1	S8500-1107001	抬压脚顶销	KNEE LIFTER ROD	1	1
2	S8500-0107002	油盘	OIL RESERVOIR	1	1
3	S8500-2207003	油盘衬垫	GASKET	1	1
4	S8500-2207004	油盘支座 (小)	OIL RESERVOIR RUBBER CUSHION	2	2
5	LDSM5162409H10Y	排油孔螺钉	SCREW SM5/16×24 L=7	1	1
6	S8500-2207005	油塞螺钉O形密封圈	RUBBER RING	1	1
7	S8500-1207006	抬压脚双向曲柄	KNEE LIFTER CRANK	1	1
8	S8500-2707007	抬压脚曲柄簧	SPRING	1	1
9	EK102009	抬压脚轴开口挡圈	SNAP RING 10	1	1
10	S8500-0407008	抬压脚操纵杆接头	KNEE LIFTER CONTROLLER JOINT	1	1
11	LDM807D12W	抬压脚操纵接头螺钉	SCREW M8 L=12	2	2
12	LMM6L35D	限位调节螺母	NUT M6	2	2
13	LDM808D30Y	限位调节螺钉	SCREW M6 L=30	2	2
14	LDM609D20W	抬压脚双向曲柄螺钉	SCREW M6 L=20	1	1
15	S8500-3907009	操纵杆组件	KNEE LIFTER ROD ASM.	1	1
16	LDM607D12W	操纵杆夹头螺钉	SCREW M6 L=12	1	1
17	S8500-2207010	操纵板软垫	KNEE PRESS SOFT GASKET	1	1
18	S8500-0407011	操纵杆	KNEE LIFTER ROD	1	1
19	S8500-2207012	操纵杆垫块	KNEE LIFTER ROD BRACKET	1	1
20	S8500-1207013	操纵板	KNEE PRESS PLATE	1	1
21	S8500-1207014	操纵杆夹头	LNEE PRESS PLATE HOLDER	1	1
22	S8500-4007015	油盘座钉	NAIL	4	4
23	S8500-2207016	油盘支座 (大)	OIL RESERVOIR RUBBER CUSHION	2	2
24	S8500-0207017	膝抬压脚轴	KNEE LIFTER SHAFT	1	1
25	LMM6L35D	限位调节螺母	NUT M6	1	1

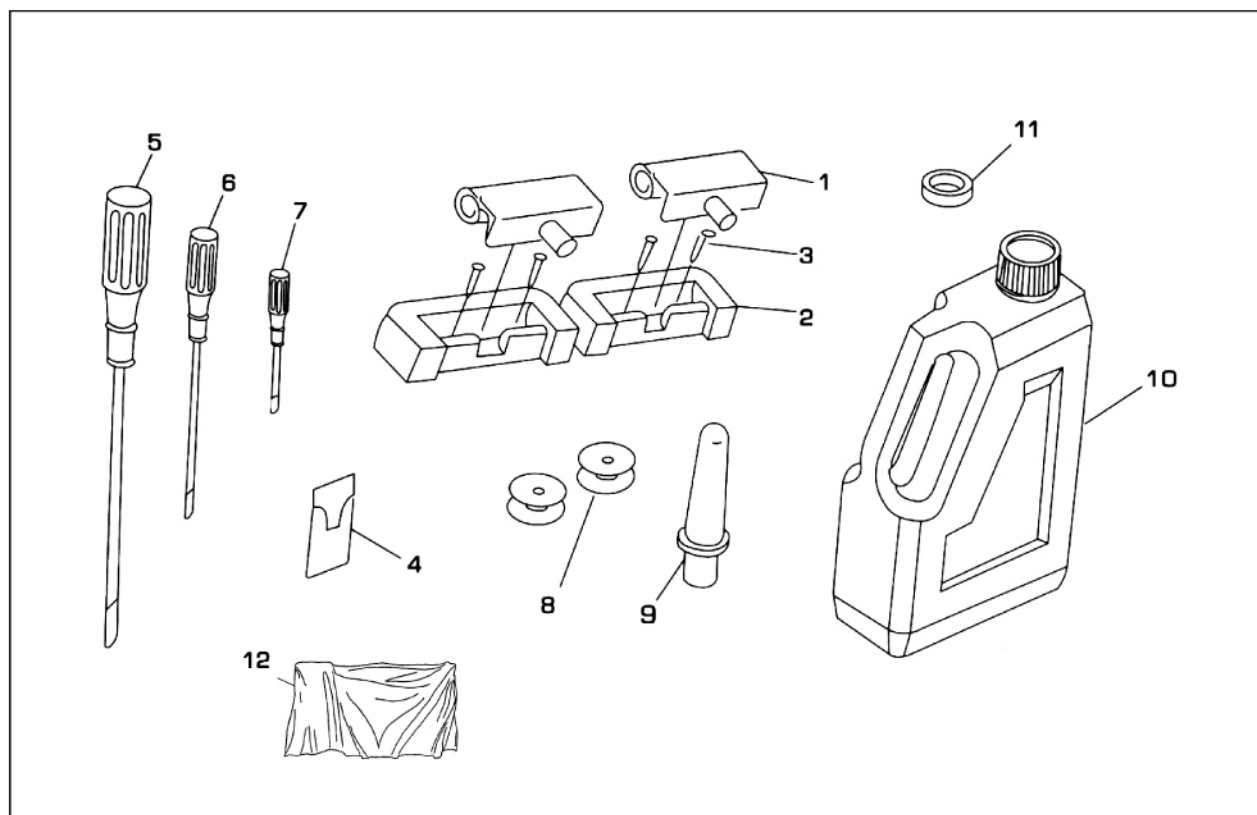
8. 线架分组件 Thread Stand Components



8. 线架分组件 Thread Stand Components

序号 NO.	图号 REF NO.	名称	DESCRIPTION	6158		S1	
				数量 (AMT)		数量 (AMT)	
				M	H	M	H
1	S8500-3009001	线架组件	THREAD STAND ASM	1	1	1	1
2	S8500-3009001-01	线盘芯	SPOOL REST ASM	2	2	2	2
3	S8500-3009001-02	线盘钉	THREAD STAND LOWER TUBE	2	2	2	2
4	S8500-3009001-03	线盘垫	NUT	2	2	2	2
5	S8500-3009001-04	线圈托盘	COLUMN PIPE (UPPER)	2	2	2	2
6	LDM0607D20W	螺钉	COLUMN JOINT M6 L=20	2	2	2	2
7	S8500-3009001-05	线臂抱攀	SCREW	2	2	2	2
8	S8500-3009001-06	上直管盖帽	NUT	1	1	1	1
9	S8500-3009001-07	短固线臂	UPPER TUBE CAP	2	2	2	2
10	S8500-3009001-08	线架上直管	THREAD HANGER (LOWER)	1	1	1	1
11	S8500-3009001-09	直管接头	THREAD TRAY SHAFT	1	1	1	1
12	LDM0507D16W	紧固螺钉	ELASTIC CUSHION M5 L=16	2	2	2	2
13	LMM05L04D	紧固螺母	NUT	2	2	2	2
14	S8500-3009001-10	下直管	SCREW	1	1	1	1
15	S8500-3009001-11	引线圈	WASHER	2	2	2	2
16	DQ03050902D	弹性垫圈	THREAD TRAY DIAC	2	2	2	2
17	LMM05L04D	螺帽	THREAD TRAY	2	2	2	2
18	LMM16L08D	螺帽	THREAD TRAY WICK	1	1	1	1
19	S8500-3009001-12	防震垫	THREAD HANGER (UPPER)	2	2	2	2
20	S8500-3009001-13	螺帽	THREAD TRAY	2	2	2	2
21	DQ0301173015D	垫圈	WASHER 17×30×1.5	2	2	2	2

9. 附件 Accessories



9. 附件 Accessories

序号 NO.	图号 REF NO.	名称	DESCRIPTION	6158		S1	
				数量 (AMT)		数量 (AMT)	
	M			H	M	H	
1	S8500-1210001	机头连接钩部件	HEAD CONNECTING HOOK	2	2	2	2
2	S8500-2210002	机头连接钩座	HEAD CONNECTING HOOK SO	2	2	2	2
3	S8500-4007015	机头连接钩座钉	HEAD CONNECTING HOOK NA	4	4	4	4
4	S8500-17DB×1 14#	机针DB×1 14#	NEEDLES 1 BAG	10枚		10枚	
	S8500-17DB×1 22#	机针DB×1 22#	NEEDLES 1 BAG		5枚		5枚
5	S8500-3010003	螺丝刀 (大)	SCREW DRIVER (L)	1	1	1	1
6	S8500-3010004	螺丝刀 (中)	SCREW DRIVER (M)	1	1	1	1
7	S8500-3010005	螺丝刀 (小)	SCREW DRIVER (S)	1	1	1	1
8	S8500-1203010	梭心	BOBBIN	2	2	2	2
9	S8500-1110006	机头支柱	HEAD POLE	1	1	1	1
10	S8500-1110007	油壶	OIL BOTTLE WITH OIL	1	1	1	1
11	S8500-3010008	油盘磁铁	OIL RESERVOIR MAGNET	1	1	1	1
12	S8500-1110009	防尘罩	Dust cover	1	1	1	1

