

Q6Ls型

使用说明

Instruction Manual

重要安全事项

为使您正确使用我们的产品，须对产品的各种功能充分了解，以便安全操作。使用前请仔细阅读使用说明书。我们希望您能长期愉快地使用我们的产品，请保存好说明书，以备查阅。

- 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、分离器穿线 and 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。
- 8、缝纫机以及附属装置使用的机油、润滑油等液体流入眼睛或沾到皮肤上时，或被误饮时，应立即清洗有关部分并去医院治疗。

- 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、缝纫机在使用其间应定期进行清扫。

- 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，并采取有奖的安全措施。
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。

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安全操作事项



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

- 1、为了防止人身事故的发生，请不要在卸下电机罩、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、衣服靠近手轮、也不要把手放到机器上面。
- 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反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、为了防止突然的启动造成人身事故，放倒缝纫机时，请一定关掉电源。
- 8、使用伺服电机时，缝纫机停止电机无声音。为了防止意外的启动造成人身事故，请注意不要忘记关电源。
- 9、为了防止触电事故，卸下电源线线的状态，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。

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FOR SAFE OPERATION



DANGER

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.



CAUTION

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.
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 components(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.

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IMPORTANT SAFETY INSTRUCTIONS

To get the most out of the many functions of this machine and operate it in safety, it is necessary to use this machine correctly. Please read this instruction Manual carefully before use. When you will enjoy the use of your machine for a long time. Please remember to keep this manual in a safe place.

1. Observe the basic safety measures, including, but not limited to the following ones, whenever you use the machine.
2. Read all the instructions, including, but not limited to this Instruction Manual before you use the machine. In addition, keep this Instruction Manual so that you may read it at anytime when necessary.
3. Use the machine after it has been ascertained that it conforms with safety rules/standards valid in your Country.
4. All safety devices must be in position when the machine is ready for word 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.
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 can be used for repairs.
11. General maintenance and inspection works have to be done by appropriately trained personnel.
12. Repair and maintenance works of electrical components shall be conducted by qualified electric technicians or under the audit and guidance of specially skilled personnel.
Whenever you find a failure of any of electrical components, immediately stop the machine.
13. Before making repair and maintenance works on the machine equipped with pneumatic parts such as an air cylinder, the air compressor has to be detached from the machine and the compressed air supply has to be cut off. Existing residual air pressure after disconnecting the air compressor from the machine has to be expelled. Exceptions to this are only adjustments and performance checks done by appropriately trained technicians or specially skilled personnel.
14. Periodically clean the machine throughout the period of use.

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

17. The machine is only allowed to be used for the purpose intended. Other used are not allowed.
18. Remodel or modify the machine in accordance with the safety rules/standards while taking all the effective safety measures. 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

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(1) Installing the under cover

- 1) Place anti vibration rubber ②③ at the four corners of the machine slot and secure it with nails ④
- 2) Place fix rubber hinge ① on the machine with nails ④ as shown in the picture.
- 3) Please use wooden screws to install the lower safety cover ⑤ onto the back of the machine (with the notch facing the operator's side).
- 4) If hinge ⑥ into the opening in the machine bed, and fit the machine head to table rubber hinge ① before placing the machine head on cushions ②③ on the four corners.
- 5) Connect tubing connector ⑦ to tubing on safety cover ⑤.

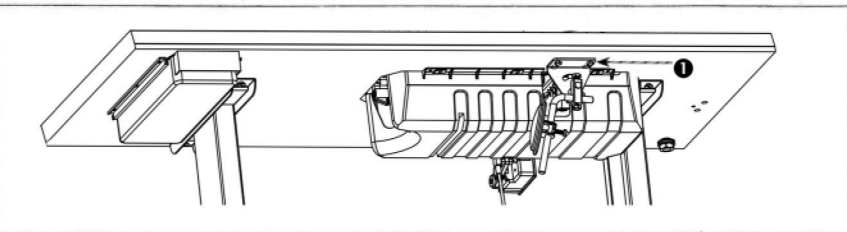
3. 膝动提升装置的安装 / Installation of knee lifting Device



注意

为了防止意外的启动造成的事故，请关掉电源后进行。

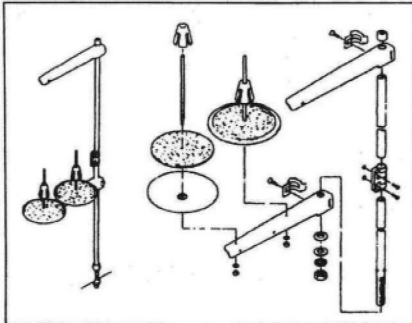
WARNING:
Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



- 1) 请使用附属的安装螺丝 ①，在上图安全罩的缺口附近，将膝动装置安装至机台背面。

- 1) Please use the attached installation screw ① to install the knee lift device near the gap in the safety cover shown in the picture to the back of the machine.

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



-2-

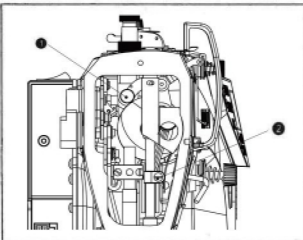
5. 加润滑油 / LIPIN



注意

为了防止意外的启动造成的事故，请关掉电源后进行。

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



- 1) 请先卸下挑线连杆轴 ① 上的小螺钉后，将润滑油注满挑线连杆轴 ① 的小孔内。
- 2) 请先拆下针杆连接组件后卸下针杆连接柱 ② 上的小螺钉，将润滑油注满针杆连接柱 ② 的小孔内。

- 1) Full pore of the thread take-up crank shaft ① with lipin before disassembly small screw of the thread take-up crank shaft ①.
- 2) Disassembly small screw before Disassembly the needle rod holder ASM, then full pore of the needle bar connection ASM ② with lipin.

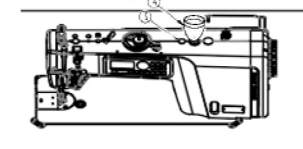
6. 加油 / LUBRICATION



注意

为了防止意外的启动造成的事故，请关掉电源后进行。

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



- 1) 取下橡胶栓 ① 用漏斗 ② 加油。
- 2) 油加到油标 ③ 到油量显示窗 ④ 上标线 A 与下标线 B 之间。
- 3) 如果油标 ③ 到油量显示窗 ④ 下标线 B 以下，需加油。
- 4) 润滑正常时可以通过油窗 ⑤ 看到油的流动。

- 1) Remove the rubber plug ① and add oil with a funnel ②.
- 2) Oil is added to the oil mark ③ to the oil level display window ④ between the top line A and the bottom line B.
- 3) If the oil mark ③ to the oil level display window ④ below the cut line B, needs to add oil.
- 4) When the lubrication is normal, the flow of oil can be seen through the oil window ⑤.



注意

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 磨合运转。

Information on lubrication

- 1) Fill oil pan ① with Machine Oil up to HIGH mark ②.
- 2) When the oil level lowers below LOW mark ③, 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 ④ 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.

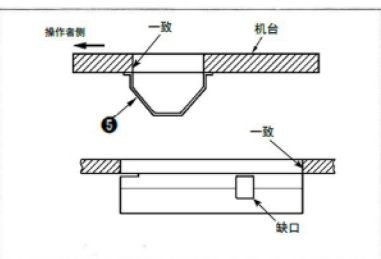
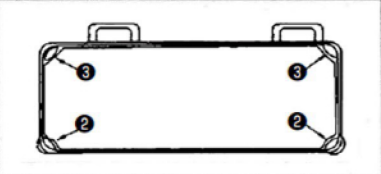
-3-

1. 规格 / SPECIFICATIONS

用途	一般布料、薄料、中厚料
缝纫速度	最高 5,000 rpm
最大针脚长度	5 mm
机针	DBX1 #9-#18
压脚高度 (膝动提升)	10mm (标准) 13mm (最大)
使用机油	10号白油

Application	General fabrics, light-weight and medium-weight materials
Sewing speed	Max. 5,000 rpm
Max. Stitch length	5 mm
Needle	DB x 1 #9 to #18
Presser foot lift	10mm (standard) 13 mm (Max.)
Lubricating oil	White Oil 10

2. 缝纫机的安装 / INSTALLATION



(1) 底槽的安装

- 1) 在机台槽的四个角上放置防振动橡胶 ②③，请用钉子 ④ 固定。
- 2) 请如图所示，在机台上用钉子 ④ 固定橡胶铰链 ①。
- 3) 请使用木质螺丝将附属下端安全罩 ⑤ 安装到机台背面 (请让缺口朝向操作员一侧)。
- 4) 把铰链 ⑥ 放到机台的孔上，对准面板橡胶支座 ①，把头部放到四角的机头橡胶 ②③ 上。
- 5) 把油管接口 ⑦ 与安全罩 ⑤ 上的油管连接。

-1-

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



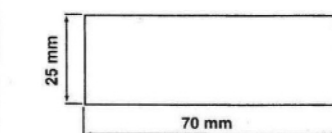
注意

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。

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.

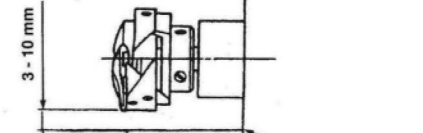
① 油量 (迹) 确认专用纸

Amount of oil (oil splashes) confirmation paper



② 油量 (迹) 确认位置

Position to confirm the amount of oil (oil splashes)



- * 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。

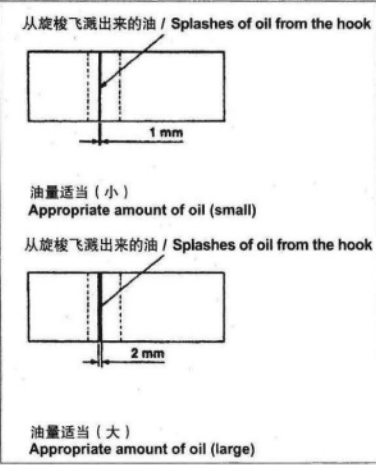
- 1) 冷机头时，请进行3分钟左右的空运转。(适当的断续运转)
- 2) 油量 (迹) 确认专用纸在缝纫机转动后的状态下插入。
- 3) 请确认油量的油面高度应在HIGH和LOW的范围之内。
- 4) 确认油量 (迹) 所需要的时间为5秒钟。(应看着表)

- * 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.)

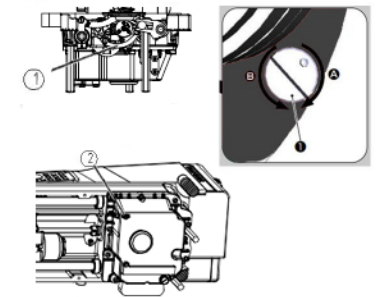
-4-

油量（油迹）适合标准 / Sample showing the appropriate amount of oil



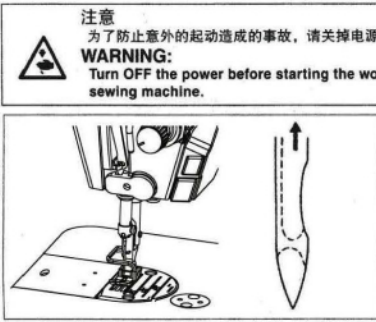
- 1) 左图标样根据缝制所需需要微调增减，但注意不要过大增加或减少（油量过少时，会烧坏旋梭（发热）。油量过多时，会脏污缝制品。）
- 2) 油量（油迹）应确认3次（3张）均无变化。
- 1) The amount of oil shown in the samples on the left should be finely adjusted in accordance with sewing processes. Be careful not to excessively increase/decrease the amount of oil in the hook. (If the amount 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)

旋梭油量（迹）调整 / Adjusting the amount of oil



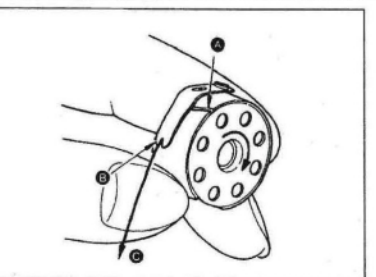
- 1) 放倒缝纫机，向A方向转动了在下轴前金属上的油量调节螺丝①之后，油量（油迹）会减少，相反向B方向转动之后，油量（油迹）会增加。
- 2) 油量调节螺丝① 在调整油量（油迹）时，应空转30秒钟左右，再进行油量（油迹）的确认。
- 3) 若油量调节螺丝①无法调整，后再调整油量调节螺丝②。
- 1) Put the sewing machine down and turn the oil adjustment screw ① on the metal part of the lower shaft in the direction of A, the oil amount (trace) becomes more, and the opposite direction of B, the oil amount (trace) becomes less.
- 2) Oil level adjustment screw ① after the adjustment of the oil trace, should run empty for about 30 seconds to confirm the oil level (trace).
- 3) If the oil adjustment screw ① cannot be adjusted, then adjust the oil adjustment screw ②.

8. 机针的安装 / ATTACHING THE NEEDLE



-5-

9. 梭心的安装方法 / SETTING THE BOBBIN INTO THE BOBBIN CASE

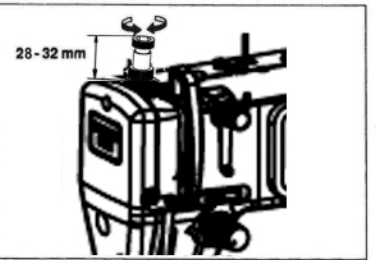


- 1) 把线穿过梭壳的穿线口①，然后把线往②方向拉。从线张力弹簧下面的穿线口③拉出来。
- 2) 拉底线④，确认梭心是否按箭头方向转动。
- 1) Pass the thread through thread slit ①, and pull the thread in direction ②. By so doing, the thread will pass under the tension spring and come out from notch ③.
- 2) Check that the bobbin rotates in the direction of the arrow when thread ④ is pulled.

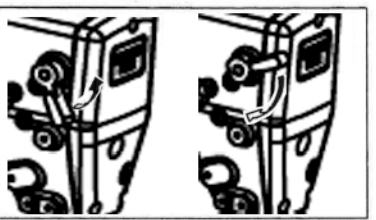
10. 线迹长度的调节 / ADJUSTING THE STITCH LENGTH



11. 压脚压力的调节 / PRESSER FOOT PRESSURE

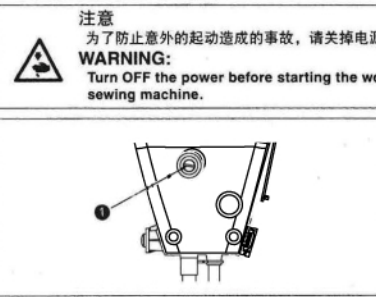


12. 关于压脚提升 / HAND LIFTER



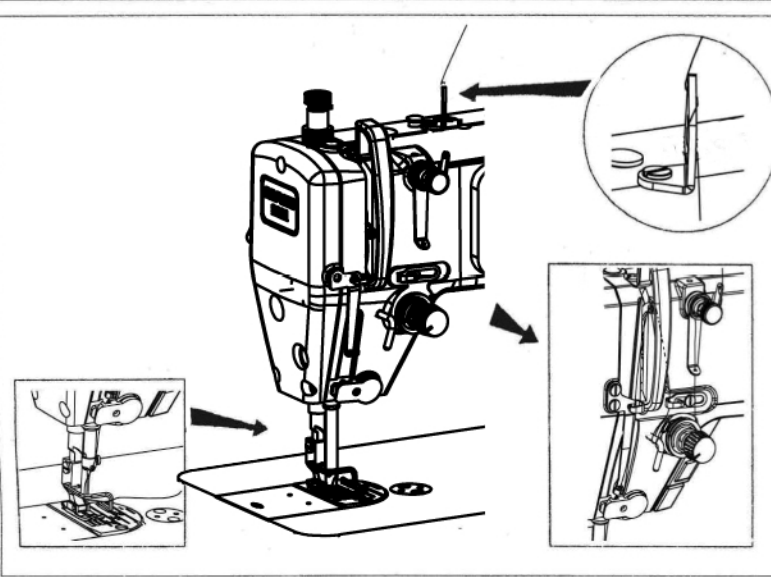
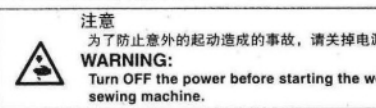
-6-

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



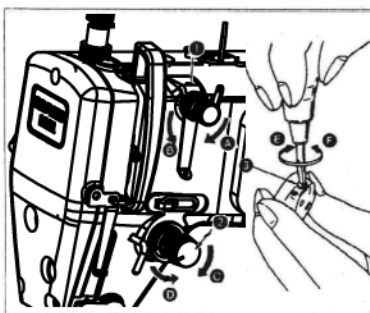
- 1) 变更压脚杆的高度或压脚的角度时，请拧松压脚杆套管固定螺丝①进行调整。
- 2) 调整后，拧紧固定螺丝②。
- 1) Loosen setscrew ①, and adjust the presser bar height or the angle of the presser foot.
- 2) After adjustment, securely tighten the setscrew ②.

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



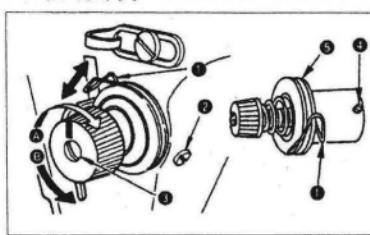
-7-

15. 线张力器 / THREAD TENSION



- (1) Adjusting the needle thread tension
- 1) As you turn thread tension No.1 nut ① clockwise (in direction ②), the thread remaining on the needle after thread trimming will be shorter.
- 2) As you turn nut ① counterclockwise (in direction ③), the thread length will be longer.
- 3) As you turn thread tension No.2 nut ② clockwise (in direction ④), the needle thread tension will be increased.
- 4) As you turn nut ② counterclockwise (in direction ⑤), the needle thread tension will be decreased.
- (2) Adjusting the bobbin thread tension
- 1) As you turn tension adjust screw ③ clockwise (in direction ⑥), the bobbin thread tension will be increased.
- 2) As you turn screw ③ counterclockwise (in direction ⑦), the bobbin thread tension will be decreased.

16. 挑线弹簧 / THREAD TAKE-UP SPRING

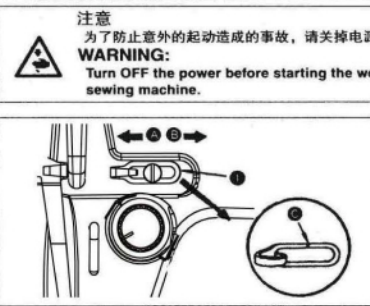


- (1) 挑线弹簧①的行程量调整
- 1) 拧松张力力的固定螺丝②。
- 2) 向右③的方向转动挑线力杆①，则行程量变大。
- 3) 向左④的方向转动挑线力杆①，则行程量变小。
- (2) 挑线弹簧①的压力调整
- 1) 拧松固定螺丝③，卸下挑线力杆①。
- 2) 拧松挑线力杆固定螺丝④进行调整。
- 3) 向右⑤的方向转动挑线力杆①则压力变强。
- 4) 向左⑥的方向转动挑线力杆①则压力变弱。

- (1) Changing the stroke of thread take-up spring
- 1) Loosen setscrew ②.
- 2) As you turn tension post ③ clockwise (in direction ④), the stroke of the thread take-up spring will be increased.
- 3) As you turn the knob counterclockwise (in direction ⑤), the stroke will be decreased.
- (2) Changing the pressure of thread take-up spring
- 1) Loosen setscrew ③, and remove thread tension (asm) ①.
- 2) Loosen setscrew ④.
- 3) As you turn tension post ⑤ clockwise (in direction ⑥), the pressure will be increased.
- 4) As you turn the post ⑤ counterclockwise (in direction ⑦), the pressure will be decreased.

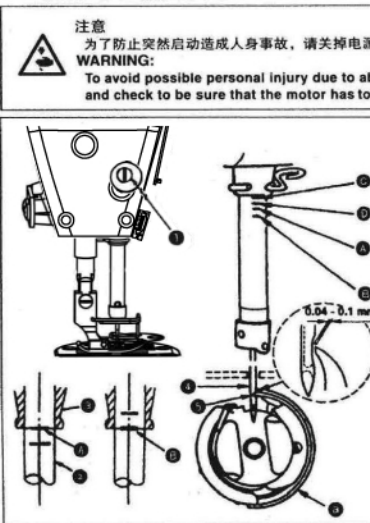
-8-

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



- 1) 缝制厚料时，向左①的方向移动线导向器②，则挑线量变大。
- 2) 缝制薄料时，向右③的方向移动线导向器②，则挑线量变小。
- 3) 线导向器②在刻线④对准螺丝⑤的中心时是标准位置。
- 1) When sewing heavy-weight materials, move thread guide ② to the left (in direction ①) to increase the length of thread pulled out by the thread take-up.
- 2) When sewing light-weight materials, move thread guide ② to the right (in direction ③) to decrease the length of thread pulled out by the thread take-up.
- 3) Normally, thread guide ② is positioned in a way that marker line ④ is aligned with the center of the screw ⑤.

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



- (1) 请按如下方法调整机针和旋梭。
- 1) 转动飞轮，让针杆降到最低点，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③对准针杆下套筒④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③对准针杆下套筒④的下端，然后拧紧针杆套管固定螺丝①。
- (决定旋梭⑤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③对准针杆下套筒④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③对准针杆下套筒④的下端。

- 4) 在此状态下，让旋梭尖⑥对准机针⑦的中心，把机针与旋梭的间隙调整为0.04~0.1mm（大致），然后拧紧螺丝。

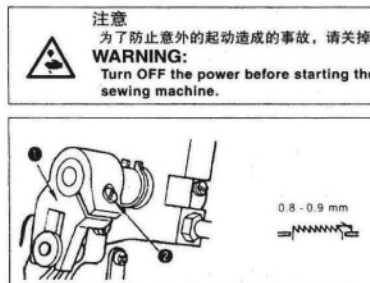
注意 间隙过小的话，会损伤旋梭尖。间隙过大的话，会跳针。

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- (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 ② on needle bar ③ with the bottom end of needle bar lower bushing ④.
- (For a DA needle) Align marker line ② on needle bar ③ with the bottom end of needle bar lower bushing ④, then tighten setscrew ①.
- (Adjusting position of the hook ⑤)
- 3) (For a DB needle) Loosen the three hook setscrews, turn the handwheel and align marker line ③ on ascending needle bar ④ with the bottom end of needle bar lower bushing ④.
- (For a DA needle) Loosen the three hook setscrews, turn the handwheel and align marker line ③ on ascending needle bar ④ with the bottom end of needle bar lower bushing ④.
- 4) After making the adjustments mentioned in the above steps, align hook blade point ⑥ with the center of needle ⑦. Provide a clearance of 0.04 mm to 0.1mm (reference value) between the needle and the hook, then securely tighten setscrews in the hook.

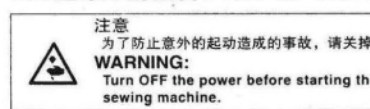
注意 如果针尖与钩尖之间的间隙小于规定的值，钩尖会受损。如果间隙更大，会导致跳针。

19. 送布牙的高度 / HEIGHT OF THE FEED DOG

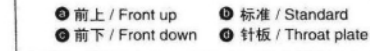


- 调节送布牙的高度时
- ① 拧松上下送布叉①的紧固螺丝②。
- ② 上下移动送布台进行调节。
- ③ 拧紧固定螺丝③。
- 注意 紧固压力过弱的话，抬牙叉部的动作则变得不灵活了。
- To adjust the height of the feed dog:
- ① Loosen screw ② of crank ①.
- ② Move the feed bar up or down to make adjustment.
- ③ Securely tighten screw ③.

20. 送布牙的倾斜 / TILT OF THE FEED DOG



- 1) 标准倾斜（水平）度是送布台轴的刻点①和送布台曲柄②的③部一致时的位置。（的标准倾斜是对③部呈90度水平送布面向轴侧的位置。）
- 2) 为了防止缝制皱褶，向前抬起送布牙时，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) 为了减少布的倾斜，向前下降送布牙时，请沿与箭头方向相反方向转90度。



● 前上 / Front up ● 标准 / Standard ● 针板 / Throat plate

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注意 调节了送布牙之后，送布齿的高度会有变化，请再次确认。

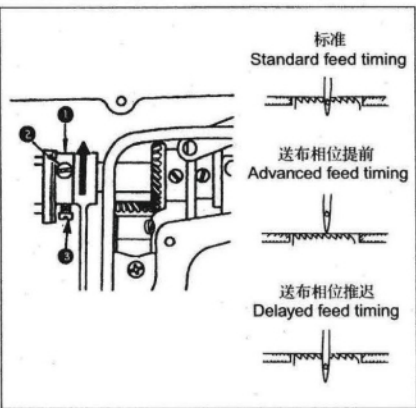
- 1) The standard tilt (horizontal) of the feed dog is obtained when marker dot ② on the feed bar shaft is aligned with marker dot ③ on feed rocker ④. (the marker dot ② inclines forward the feed rocker shaft by 90°, as standard).
- 2) To tilt the feed dog with its front up in order to prevent puckering, 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.)

注意 每当调整了喂狗倾斜时，喂狗的高度就会改变。所以，有必要在调整倾斜后检查高度。

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

注意 为了防止突然启动造成的人身事故，请关掉电源，确认马达确实停止转动后再进行。

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.



- 1) 拧松送布偏心凸轮①的固定螺丝②、③，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。
- 注意 移动距离过大将发生断针故障。

- 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 from the arrow.

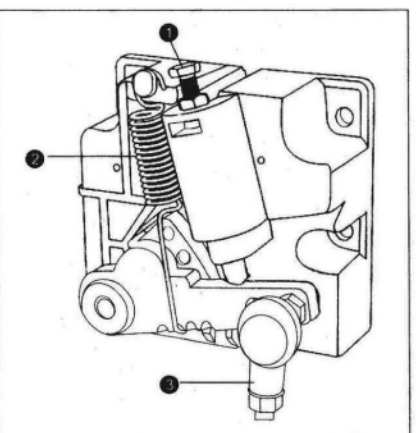
注意 请勿移动送布偏心凸轮太远，否则可能导致断针。

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

注意 为了防止意外的启动造成的人身事故，请关掉电源后进行。

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



- (1) 踏板踩踏压力的调整
- 1) 换成前踩踏板①可以调整。
- 2) 把弹簧调到左侧之后，压力变轻。
- 3) 调到右侧之后变重。
- (2) 踏板回踩力的调整
- 1) 用踏板回踩力调节弹簧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) 把连杆杆③插到右侧的孔里之后行程变大。



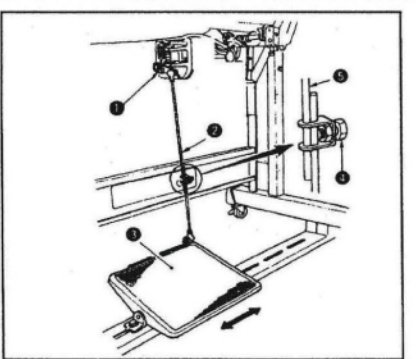
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- (1) Adjusting the pressure required to depress the front part of the pedal
- 1) This pressure can be changed by changing the mounting position of pedaling pressure adjust spring ①.
- 2) The pressure decreases when you hook the spring on the left 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.

23. 踏板的调整 / ADJUSTMENT OF THE PEDAL

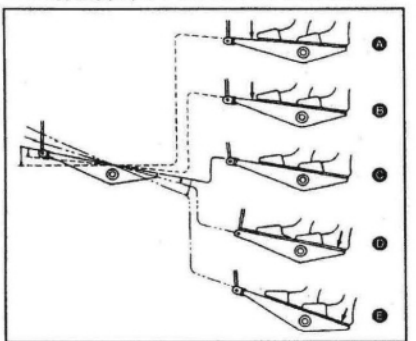
注意 为了防止意外的启动造成的人身事故，请关掉电源后进行。

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



- (1) 连接杆的安装
- 1) 向箭头方向移动踏板调节杆①，让踏板拉杆②和连接杆③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) Installing the connecting rod
- 1) Move pedal ① to the right or left as illustrated by the arrow, so that motor control lever ② and connecting rod ③ 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.

24. 踏板操作 / PEDAL OPERATION



- (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①。
- 2) 再用力向前踩踏板则变为高速缝制②。（但缝制结束后，踏板会自动倒回原位。）
- 3) 把踏板反回到脚轻轻地放到踏板上的位置缝制机停止。（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③。
- * 使用自动压脚提升装置时，在停止和切线之间增加1级开关，往后用力踩踏板为切线动作。

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