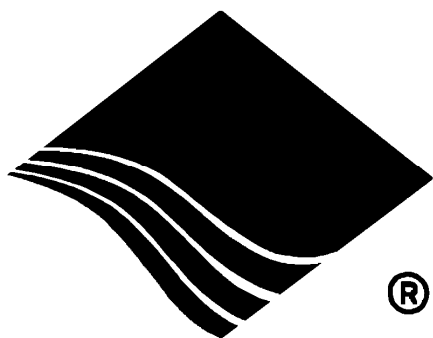




海菱
® **HIGHLEAD**

GC198-1

直驱高速电脑平缝机

**DIRECT DRIVE COMPUTER-CONTROLLED HIGH-
SPEED LOCKSTITCH SEWING MACHINE**

使用说明书

Instruction Manual

上海标准海菱缝制机械有限公司
SHANGHAI BIAOZHUN HAILING SEWING MACHINERY CO., LTD.

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。
- 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，并采取有奖励的安全措施。
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。

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. We hope 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 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.
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 uses 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

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、为了防止突然的起动造成人身事故，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。	

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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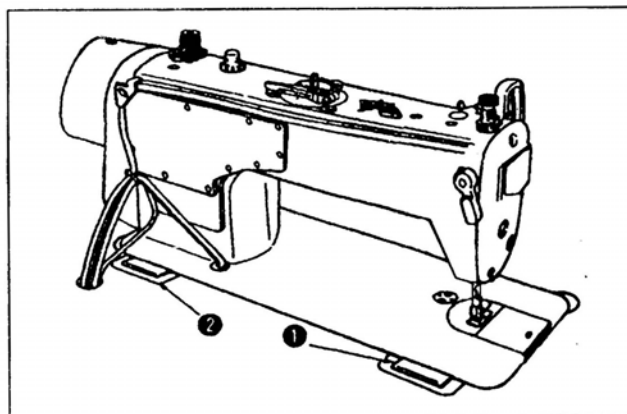
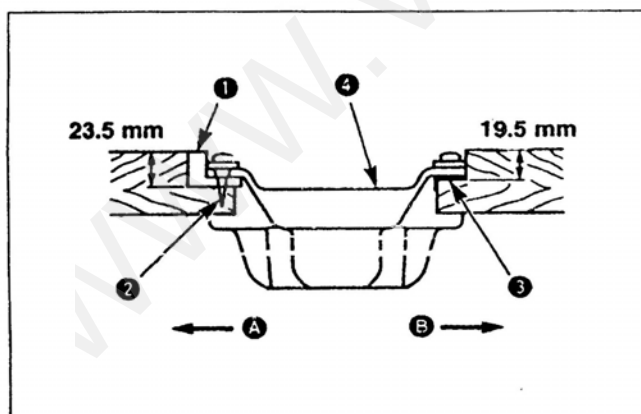
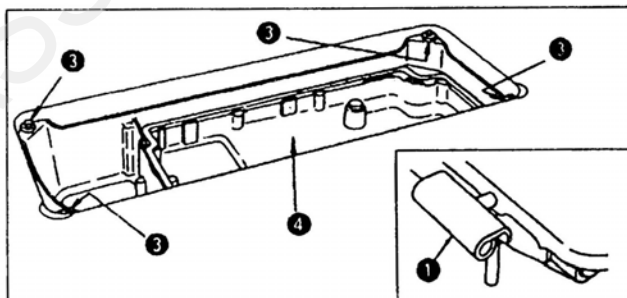
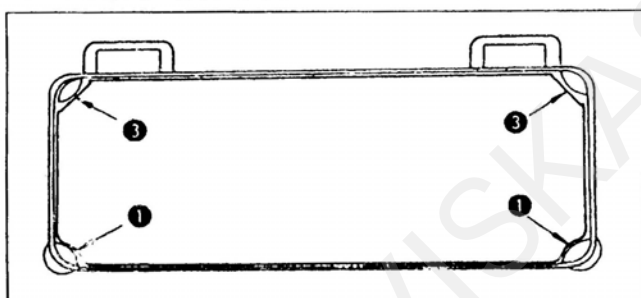
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1. 规格 / SPECIFICATIONS

用途	一般布料、薄料、中厚料
缝纫速度	最高 4,000 rpm
最大针脚长度	4 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. 4,000 rpm
Max. Stitch length	4 mm
Needle	DB x 1 #9 to #18
Presser foot lift	10 mm (standard) 13 mm (Max.)
Lubricating oil	White Oil 10
Noise	Workplace-related noise at sewing speed $n = 4,500 \text{ min}^{-1}$: $L_{PA} \leq 93 \text{ dB(A)}$ Noise measurement according to DIN 45635-48-A-1.

2. 缝纫机的安装 / INSTALLATION



(1) 底槽的安装

- 1) 把底槽支到机台沟的四角上。
- 2) 用螺钉②把前侧的 A 2个头部橡胶支座①钉到机台的伸出部, 再用螺钉②把铰链侧 B 的 2个头部胶垫座③钉好固定, 然后把底槽④放上去。
- 3) 把铰链①放到机台的孔上, 对准台板橡胶支座②, 把头部放到四角的机头胶垫③上。

(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. 膝动提升高度的调整 / ADJUSTING THE HEIGHT OF THE KNEE LIFTER

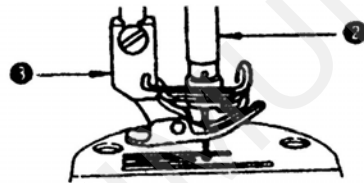
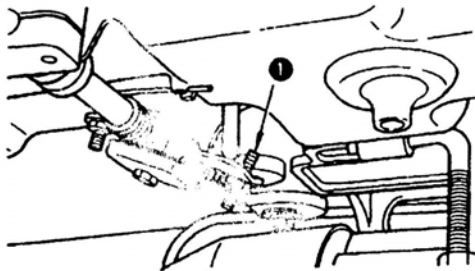
注意

为了防止意外的起动造成的事故，请关掉电源后进行。



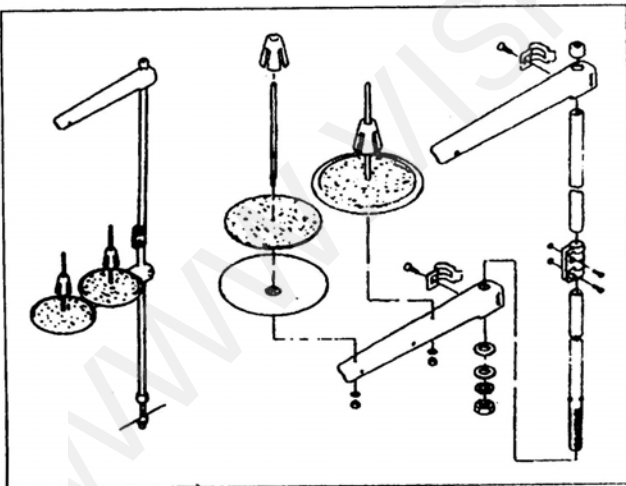
WARNING:

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



- 1) 膝动提升的压脚标准高度为10mm。
 - 2) 调节膝动提升调节螺丝 ① 可以把压脚高度最大调整到13mm。(A型时最大为9mm。)
 - 3) 压脚提升到10 mm 以上时，请注意针杆 ② 的前端下降到最底下时，不能碰到压脚 ③。
- 1) The standard height of the presser foot lifted using the knee lifter is 10 mm.
 - 2) You can adjust the presser foot lift up to 13 mm using knee lifter adjust screw ①. (Max. 9 mm for A type)
 - 3) When you have adjusted the presser foot lift to over 10 mm, be sure that the bottom end of needle bar ② in its lowest position does not hit presser foot ③.

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



5. 加润滑脂 / LIPIN

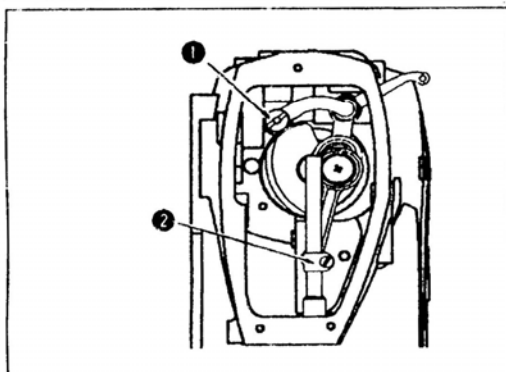
注意

为了防止意外的起动造成的事故，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) 请先卸下挑线连杆销①上的小螺钉后，将润滑脂注满挑线连杆销①的小孔内。
 - 2) 请先拆下针杆连接柱组件后卸下针杆连接柱②上的小螺钉，将润滑脂注满针杆连接柱②的小孔内。
- 1) Full pore of the thread take-up crank shaft① with lipin before disassembly small screw of the thread take-up crank shaft①.
 - 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

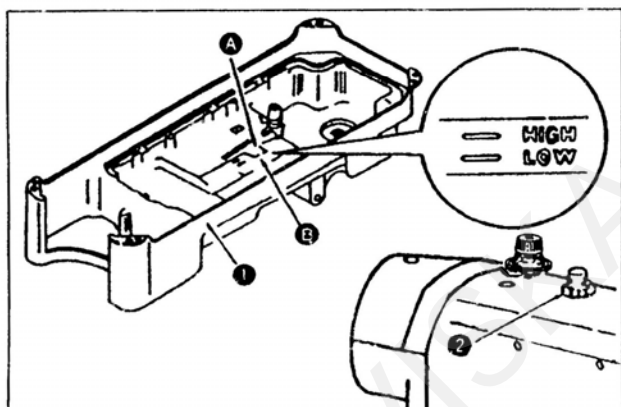
注意

为了防止意外的起动造成的事故，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.



运转缝纫机前

- 1) 请把机油倒进油槽①里，一直加到 HIGH 标记 A 的位置。
- 2) 油槽的油面降到 LOW 标记 B 以下时，请再次补充机油。
- 3) 加油后运转缝纫机，如果润滑正常时，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。



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 的磨合运转。

Information on lubrication

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

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

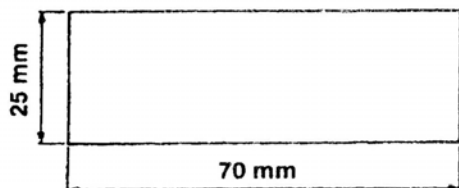
旋梭是以高速运转。为了防止人身事故，调整油量时，请加以充分的注意。

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.

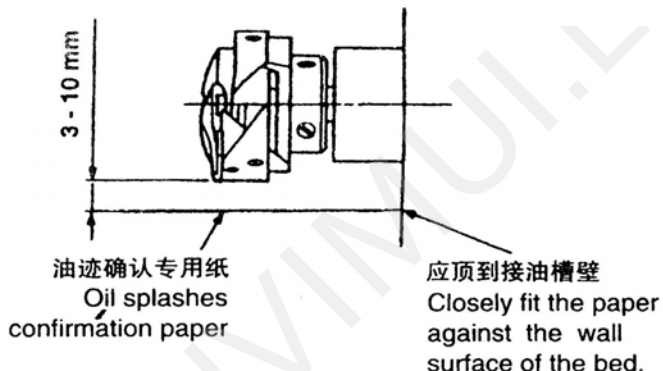
① 油量（迹）确认专用纸

Amount of oil (oil splashes) confirmation paper



② 油量（迹）确认位置

Position to confirm the amount of oil (oil splashes)



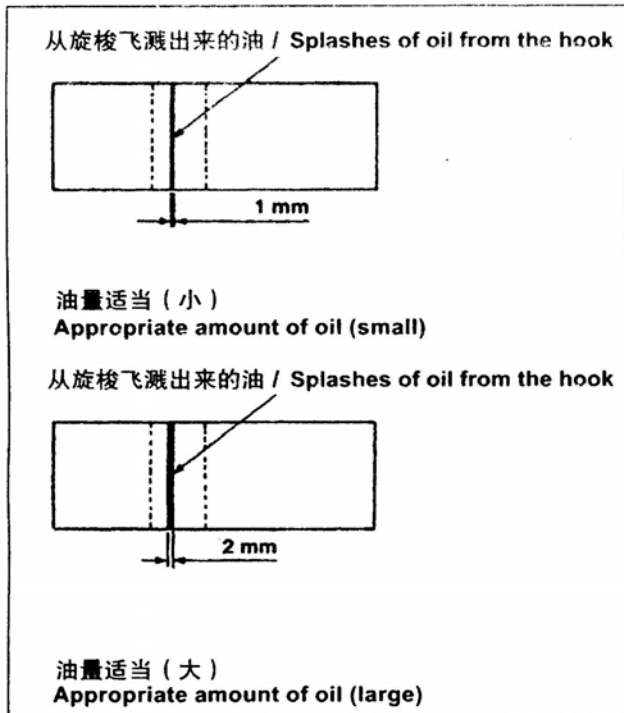
* 进行下列2)的作业时，请卸下滑板，同时要充分注意手指不要碰到旋梭。

- 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进去。
- 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.

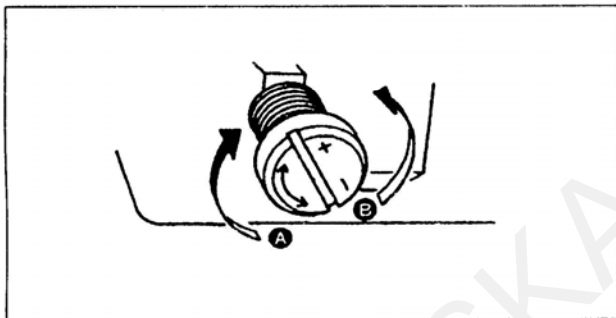
- 1) If the machine has not been sufficiently warmed up for operation, make the machine run idle for approximately three minutes. (Moderate intermittent operation)
- 2) Place the amount of oil (oil splashes) confirmation paper under the hook while the sewing machine is in operation.
- 3) Confirm the 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.)

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



- 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) 把下轴前端金属部件上的油量调节螺丝向“+”的方向（A方向）转动，油量（迹）变多，向“-”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。
- 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.

8. 机针的安装 / ATTACHING THE NEEDLE

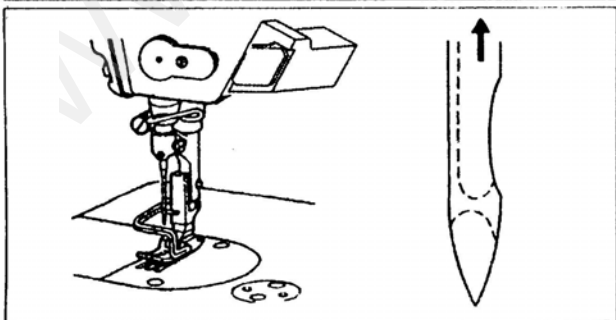
注意

为了防止意外的起动造成的事故，请关掉电源后进行。

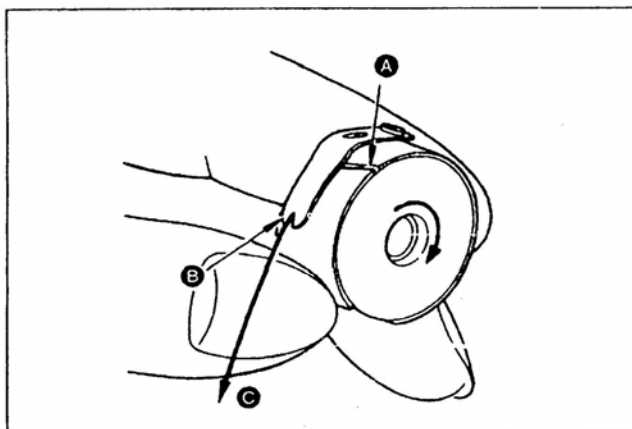


WARNING:

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



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A，然后把线往B方向拉，从线张力弹簧下面的穿线口B拉出来。

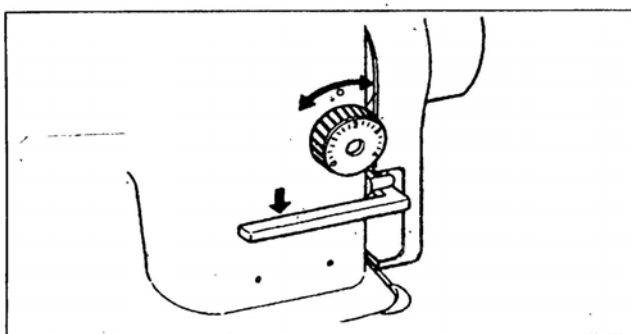
2) 拉底线C，确认梭心是否按箭头方向转动。

1) Pass the thread through thread slit A, and pull the thread in direction B.

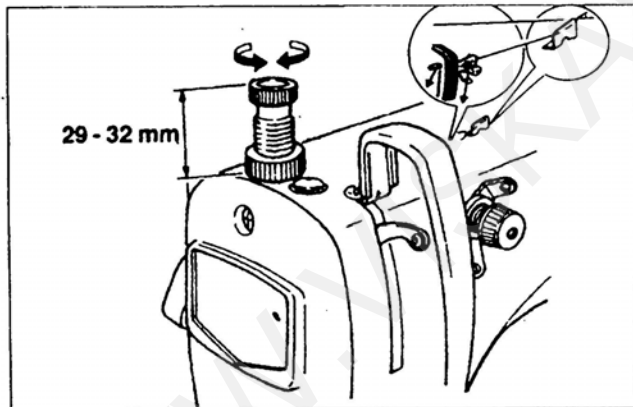
By so doing, the thread will pass under the tension spring and come out from notch B.

2) Check that the bobbin rotates in the direction of the arrow when thread C is pulled.

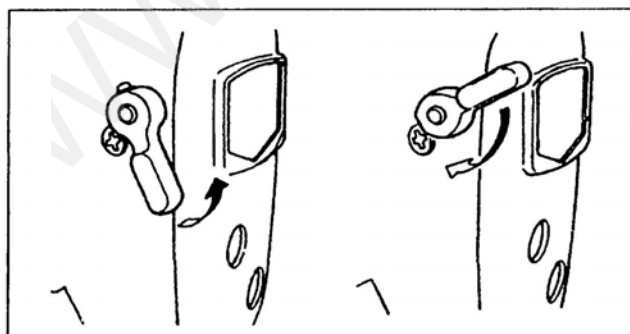
10. 线迹长度的调节 / ADJUSTING THE STITCH LENGTH



11. 压脚压力的调节 / PRESSER FOOT PRESSURE



12. 关于压脚提升 / HAND LIFTER



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

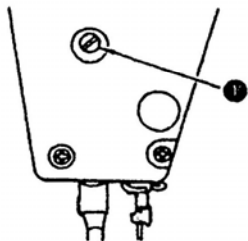
注意

为了防止意外的起动造成的事故，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) 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①。

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

2) After adjustment, securely tighten the setscrew ①.

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

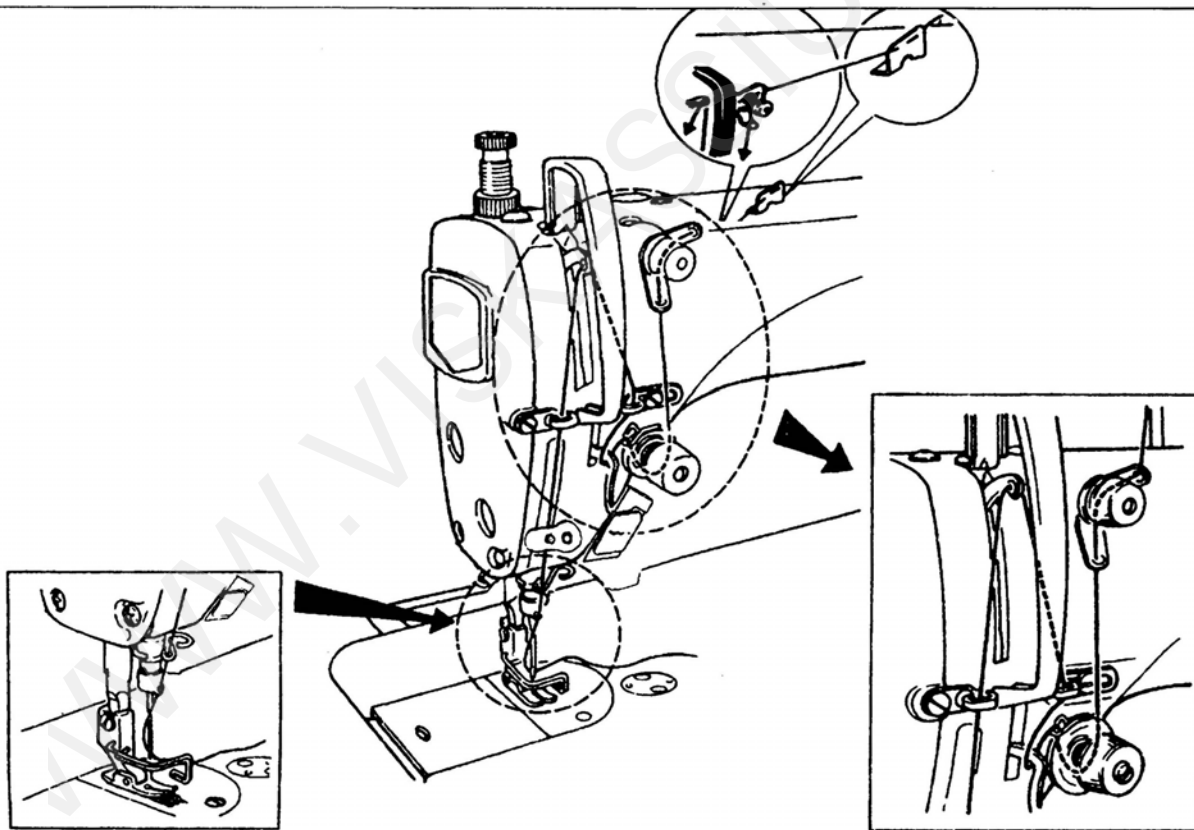
注意

为了防止意外的起动造成的事故，请关掉电源后进行。

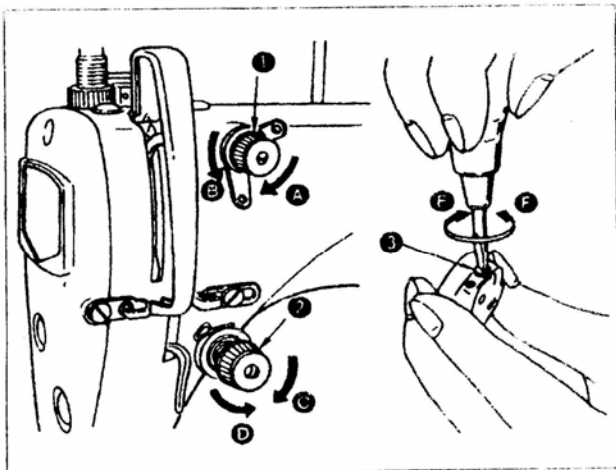


WARNING:

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



15. 线张力器 / THREAD TENSION



(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。

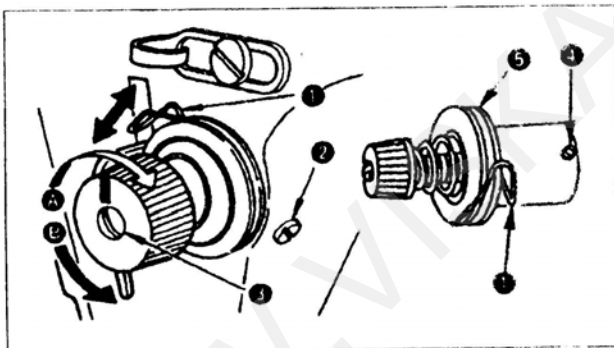
(1) Adjusting the needle thread tension

- 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.

16. 挑线弹簧 / THREAD TAKE-UP SPRING



(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, 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。

(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.

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

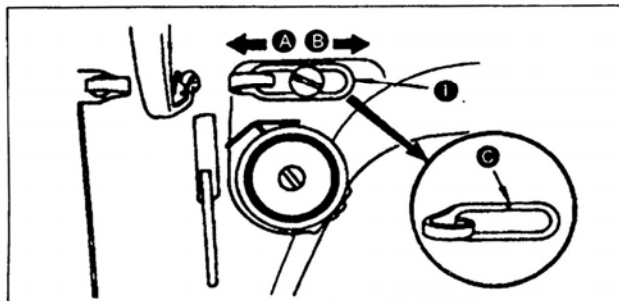
注意

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) 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。

- 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.

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

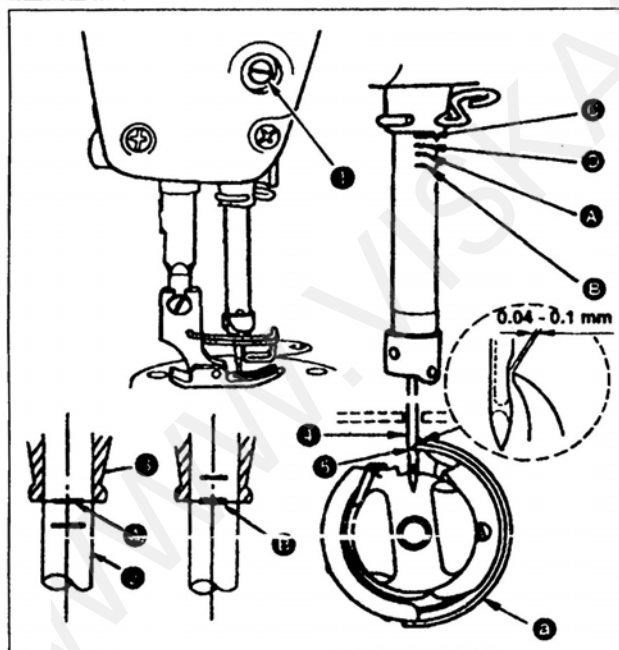
注意

为了防止突然启动造成人身事故，请关掉电源，确认马达确实停止转动后再进行。



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) 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对准针杆下套筒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对准针杆下套筒③的下端，然后拧紧针杆套管固定螺丝①。

(决定旋梭a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对准针杆下套筒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对准针杆下套筒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 ~ 0.1mm (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。

(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 ① on needle bar ② with the bottom end of needle bar lower bushing ③ then tighten setscrew ①.

(For a DA needle) Align marker line ① on needle bar ② with the bottom end of needle bar lower bushing ③ then tighten setscrew ①.

(Adjusting position of the hook ③)

- 3) (For a DB needle) Loosen the three hook setscrews, turn the handwheel and align marker line ① on ascending needle bar 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 ① on ascending needle bar 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 (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.

19. 送布牙的高度 / HEIGHT OF THE FEED DOG

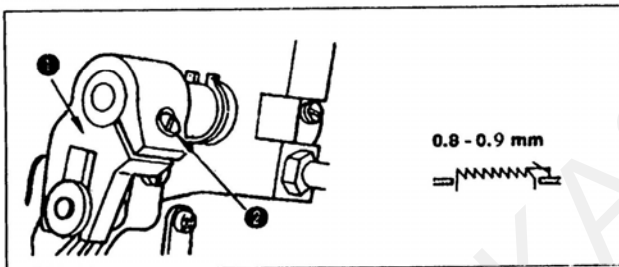


注意

为了防止意外的起动造成的事故，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.



调节送布牙的高度时

- ① 拧松上下送布双叉 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。



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 ②.



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

20. 送布牙的倾斜 / TILT OF THE FEED DOG

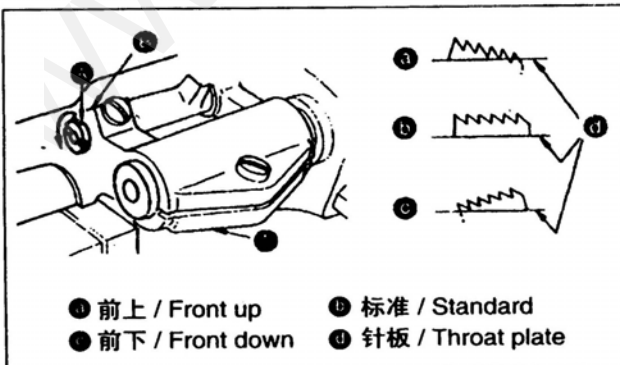


注意

为了防止意外的起动造成的事故，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) 标准倾斜（水平）度是送布台轴的 ① 部与送布台曲柄 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) 为了减少布的偏斜，向前下降送布牙时，请沿与箭头方向相反方向转 90 度。



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 A on the feed bar shaft is aligned with marker dot B on feed rocker 1. (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.)



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.

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

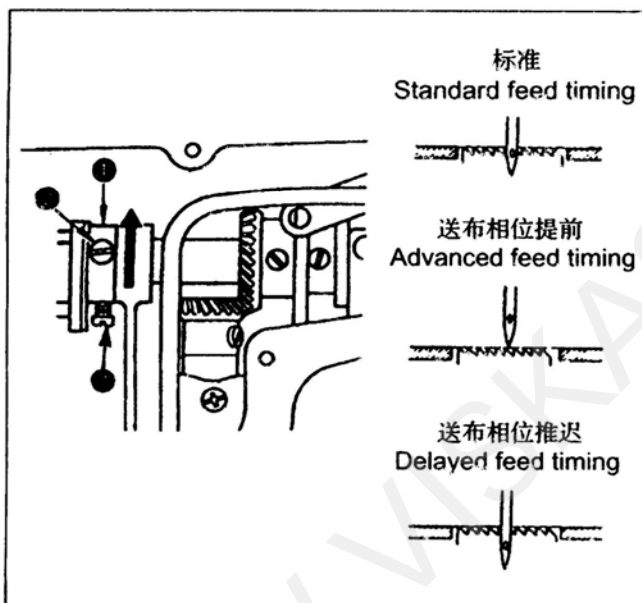
注意



为了防止突然启动造成人身事故，请关掉电源，确认马达确实停止转动后再进行。

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位斜时，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。

- 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.



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

22. 踏板的调整 / ADJUSTMENT OF THE PEDAL

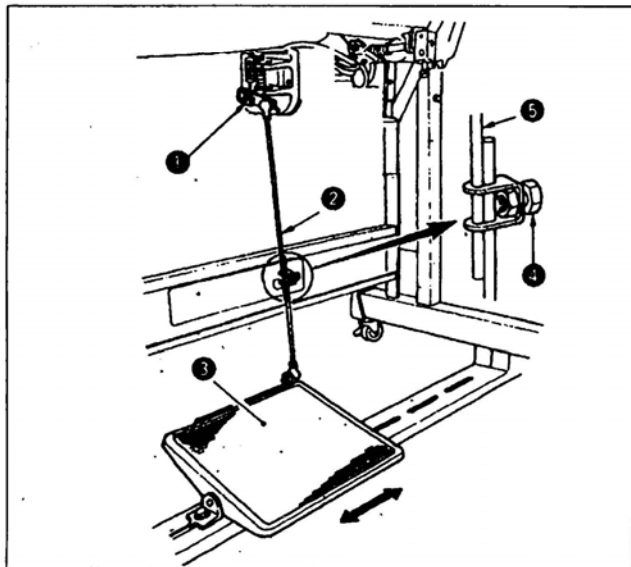
注意

为了防止意外的起动造成的事故，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) 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。

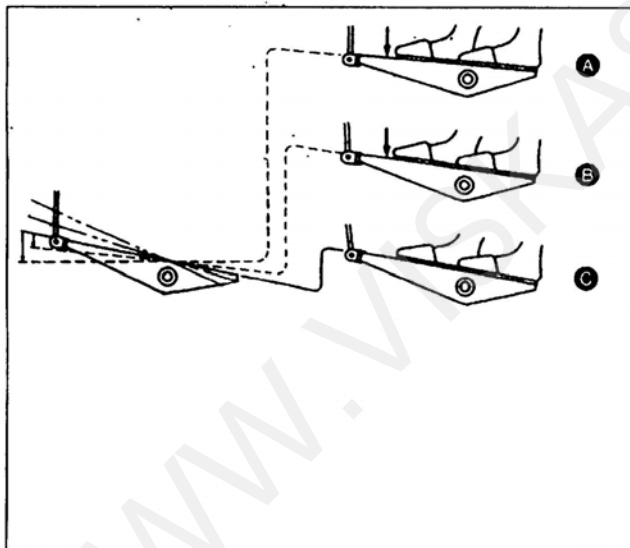
(1) Installing the connecting rod

- 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.

23. 踏板操作 / PEDAL OPERATION



(1) 踏板按4个阶段进行操作。

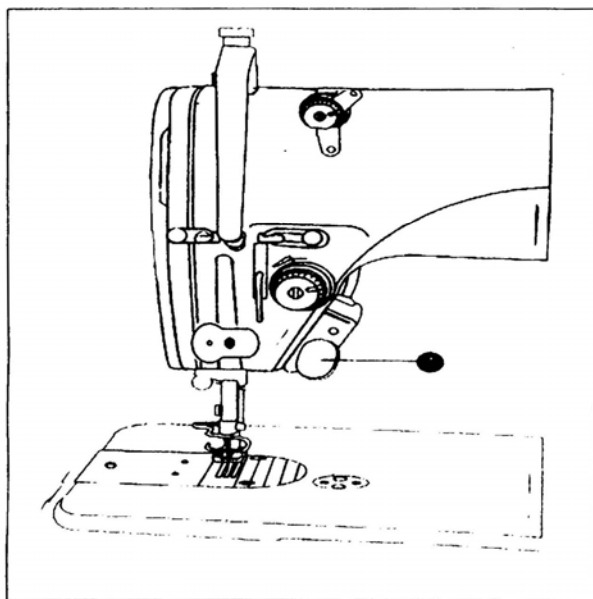
- 1) 向前轻轻踩踏板为低速缝制 ⑥。
- 2) 再用力向前踩踏板则变为高速缝制 ⑦。
- 3) 把踏板返回到脚轻轻地放到踏板上的位置缝纫机停止 ⑧。(机针上停止或下停止位置)

(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. ⑥
- 2) The machine runs at high sewing speed when you further depress the front part of the pedal. ⑦
- 3) The machine stops (with its needle up or down) when you reset the pedal to its original position. ⑧

24. 触键手动倒缝 /

ONE-TOUCH TYPE REVERSE FEED STITCHING MECHANISM



(1) How to operate

- 1) The moment switch lever ❶ is pressed, the machine performs reverse feed stitching.
- 2) The machine performs reverse feed stitching as long as the switch lever is held pressed.
- 3) The machine resumes normal feed stitching the moment the switch lever is released.



WARNING:

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

(2) Height of the switch lever

- 1) Adjust the height of switch lever ❶ so that it can be easily operated.

(1) 使用方法

- 1) 按开关拨杆 ❶，缝纫机立即变为倒送，进行倒缝。
- 2) 按下拨杆的时间，可以进行倒缝。
- 3) 放开拨杆，则立即返回到正缝。



注意

为了防止意外的起动造成的事故，请关掉电源后进行。

(2) 开关拨杆的高度

- 1) 请把开关拨杆 ❶ 的高度调整到使用方便的位置。

25. 电子夹线 / ELECTRONIC CLIP WIRE

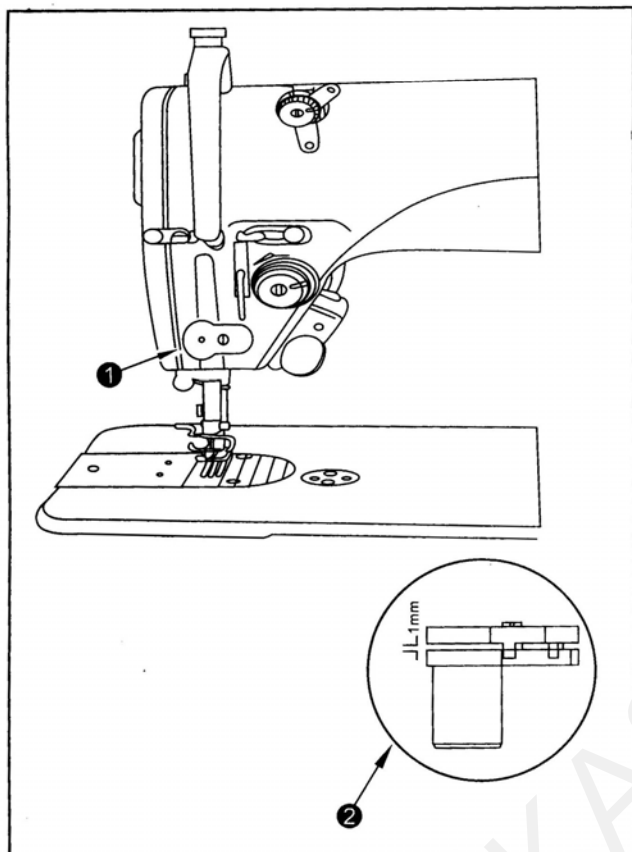


注意

为了防止意外的起动造成的事故，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) 电子夹线器。①

1) Electronic clip wire ①

2) 电子夹器② 打开为1mm。

2) Electronic clip wire ② open as 1mm.

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

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