

261 操作说明 Operating Instructions 零件列表 Parts List



非常感谢您购买本公司的工业缝纫机。在使用缝纫机之前,请仔细阅读(为了您的安全使用)和使用说明书。

工业缝纫机的特性之一,是要在机针和旋梭等运动零部件附近进行操作,而这些零部件很容易引起受伤的危险,所以请在受过培训的人员或有熟练操作技术的人员的指导下,正确地使用本缝纫机。

为了您的安全使用

1. 安全使用的标记及其意义

本使用说明书及产品所使用的标记和图案记号是为了您的安全而正确地使用本产品,防止您及他人受到危害和损害。

表示方法及含义如下:

说明

▲ 危险	如果忽视此标记而进行了错误的操作,必将导致人员死亡或重伤。
⚠ 注意	如果忽视此标记而进行了错误的操作,有可能会引起人员受伤及造成设备损坏。
▲ 警告	如果忽视此标记而进行了错误的操作,将会引起人员重伤或死亡。

图案和符号

<u> </u>	符号△表示"应注意事项"。 三角中的图案表示必须要注意的内容。 (如左图的符号表示"注意受伤"。)
O	符号○表示"禁止"。
•	符号●表示"必须"。 圆圈中的图案表示必须要做的内容。 (如左图的符号表示"必须接地"。)



Thank you very much for buying our sewing machine. Before using your new machine, please read the safety instructions below and the explanations given in the Operation Instruction.

With industrial sewing machines, it is normal to carry out work while positioned directly in front of moving parts such as the needle and thread take-up lever, and consequently there is always a danger of injury that can be caused by these parts. Follow the instructions from training personnel and instructors regarding safe and correct operation before operating the machine so that you will know how to use it correctly.

SAFETY INSTRUCTIONS

1. Safety indications and their meanings

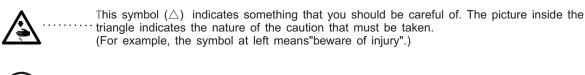
This instruction manual and the indications and symbols that are used on the machine itself are provided in order to ensure safe operation of this machine and to prevent accidents and injury to yourself or other people.

The meaning of these indications and symbols are given below.

Indications

Ŵ	DANGER	The instructions which follow this term indicate situations where failure to follow the instructions will almost certainly result in death or severe injury.
\triangle	CAUTION	The instructions which follow this term indicate situations where failure to follow the instructions could cause injury when using the machine or physical damage to equipment and surroundings.
<u> </u>	CAUTION	The instructions which follow this term indicate situations where failure to follow the instructions will almost certainly result in death or severe injury.

Symbols





This symbol (●) indicates something that you must do. The picture inside the circle indicatesthe nature of the thing that must be done.

(For example, the symbol at left means "you must make the ground connection".)

2. 安全注意事项

▲危险



打开控制箱盖时,必须先关闭电源开关并将电源插头从插座上拔下,至少等待5分钟后,再打开控制箱盖。触摸带有高电压的区域将会造成人员伤亡。



请勿将手放入皮带开口处,否则手可能会将被卷入皮带中造成重伤。

⚠ 注意

使用环境

- 全多個人的最佳工作环境是相对湿度在45%-85%的范围内,干燥或潮湿的环境均会影响缝纫机的正确操作。
- 电源电压的波动应该在额定电压的±10%以内的环境下使用。 电压大幅度的波动会影响缝纫机的正确操作。
- 使用时应避免暴露于直射的阳光下。 直射的阳光会影响缝纫机的正确操作。
- 电源容量应大于缝纫机的消耗能量。电源容量不足会影响缝纫机的正确操作。
- 万一发生雷电暴风雨时,关闭电源开关,并将电源插头从插座上拔下。雷电可能会影响缝纫机的正确操作。
- 取境温度应在5℃-35℃的范围内使用。
 低温或高温会影响缝纫机的正确操作。

安装

- 请让受过培训的技术人员来安装缝纫机。
- 固定电缆时,不要过度弯曲电缆或用卡钉固定得过紧,会引起火灾或触电的危险。
- 请委托购买商店或电气专业人员进行电气 配线。
- 如果使用带小脚轮的工作台,则应该固定小脚轮,使其不能移动。
- 缝纫机重约40公斤,安装工作必须由两人以上来完成。
- 全 缝纫机头倒下或竖起时,请用双手进行操作。单手操作时因缝纫机的重量万一滑落易导致受伤。
- 在安装完成前,请不要连接电源,如果误按启动开关,缝纫机动作会导致受伤。
- 使用润滑油或黄油时,务必戴好保护眼镜和保护手套等,以防润滑油落入眼中或沾在皮肤上,这是引起发炎的原因。 另外,润滑油或黄油不能饮用,否则会引起呕吐和疾力。
- **●** 请在切断电源后,再拔掉电源插头。不然易成为控制箱发生故障的原因。
- 将油放在小孩拿不到的地方。
- 必须接地。接驳地线不牢固,是造成触电或误动作的原因。



2. Notes on safety

⚠ DANGER



Wait at least 5 minutes after turning off the power switch and disconnecting the power cord from the wall outlet before opening the face plate of the control box. Touching areas where high voltages are present can result in severe injury.



Please do not put hand in belt openings, or hand may be involved into the belt will be seriously injured.

⚠ CAUTION

Environmental requirements

Use the sewing machine in an area which is free from sources of strong electrical noise such as high-frequency welders.

Sources of strong electrical noise may cause problems with correct operation.

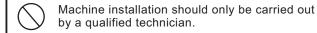
- Any fluctuations in the power supply voltages should be within ±10% of the rated voltage for the machine. Voltage fluctuations which are greater than this may cause problems with correct operation.
- The power supply capacity should be greater than the requirements for the sewing machine's electrical consumption.
 - Insufficient power supply capacity may cause problems with correct operation.

The ambient temperature should be within the range of 5° to 35° during use.

Temperatures which are lower or higher than this may cause problems with correct operation.

- The relative humidity should be within the range of 45% to 85% during use, and no dew formation should occur in any devices.
 - Excessively dry or humid environments and dew formation may cause problems with correct operation.
- Avoid exposure to direct sunlight during use. Exposure to direct sunlight may cause problems with correct operation.
- In the event of an electrical storm, turn off the power and disconnect the power cord from the wall outlet. Lightning may cause problems with correct operation.

Installation



- Contact your dealer or a qualified electrician for any electrical work that may need to be done.
- The sewing machine weighs approximately 40kg. The installation should be carried out by two or more people.
- Don't connect the power cord until installation is complete, otherwise the machine may operate if the foot switch is depressed by mistake, which could result in injury.
- Be sure to connect the ground. If the ground connection is not secure, you run a high risk of receiving a serious electric shock, and problems with correct operation may also occur.
 - Install the safety covers to the machine head and motor.

Hold the machine head with both hands when tilting it back or returning it to its original position.
Furthermore, after tilting back the machine head, do not push the face plate side or the pulley side from above, as this could cause the machine head to topple over, which may result in personal injury or damage to the machine.

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

If using a work table which has caster, the casters should be secured in such a way so that they cannot move.

Be sure to wear protective goggles and gloves when handling the lubricating oil and grease, so that they don't get into your eyes or onto your skin, otherwise inflammation can result.

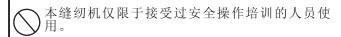
Furthermore, do not drink the oil or eat the grease under any circumstances, as they can cause vomiting and diarrhoea.

Keep the oil out of the reach children.

2. 安全注意事项

⚠注意

缝纫





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



本缝纫机不能用于除缝纫以外的任何其他用



缝纫过程中不要触摸任何活动部件或将物件靠 在运动部件上,因为这会导致受伤或缝纫机损 坏。



★ 发生下列情况时,请切断电源。否则误按动启动开关,缝纫机动作会导致受伤。
• 机针穿线时

- - 如果缝纫机操作中发生误动作,或者听到异常的噪声或闻到异常的气味,应立即切断电源。 然后与购买商店或受过培训的技术人员联系。

- - 更换机针或梭芯时 缝纫机不使用,或人离开缝纫机时
- 如果缝纫机出现故障时,请与购买商店或受过 培训的技术人员联系。
- 如果使用带小脚轮的工作台,则应该固定小脚轮,使其不能移动。

清洁



在开始清洁作业前,请切断电源。如果误踩了脚开关,缝纫机动作会导致人员受



使用润滑油或黄油时,务必戴好保护眼镜和保护手套等,以防润滑油落入眼中或沾在皮肤上,这是引起发炎的原因,另外,润滑油或黄油不能饮用,否则会引起呕吐和腹泻。 将油放在小孩拿不到的地方。

2. Notes on safety

CAUTION

Sewing



This sewing machine should only be used by operators who have received the necessary training in safe use beforehand.



If using a work table which has casters, the casters should be secured in such a way so that they cannot move.



The sewing machine should not be used for any applications other than sewing.



Attach all safety devices before using the sewing machine. If the machine is used without these devices attached, injury may result.



Be sure to wear protective goggles when using the machine.

If goggles are not worn, there is the danger that if a needle breaks, parts of the broken needle may enter your eyes and injury may result.



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



Turn off the power switch at the following times, otherwise the machine may operate if the foot switch is depressed by mistake, which could result in injury.

- When threading the needle
- ·When replacing the needle and bobbin
- ·When not using the machine and when leaving the machine unattended



If an error occurs in machine operation, or if abnormal noises or smells are noticed, immediately turn off the power switch. Then contact your nearest dealer or a qualified technician.



If the machine develops a problem, contact your nearest dealer or a qualified technician.

Cleaning



Turn off the power switch before carrying out cleaning, otherwise the machine may operate if the foot switch is depressed by mistake, which could result in injury.



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



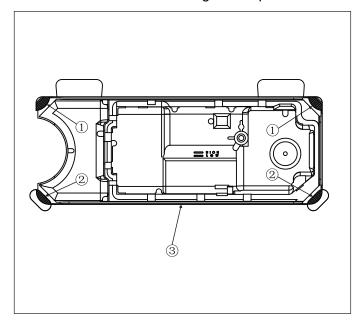
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- 1. 缝纫机的安装 Installation
- (1). 油盘的安装 Installing the oil pan

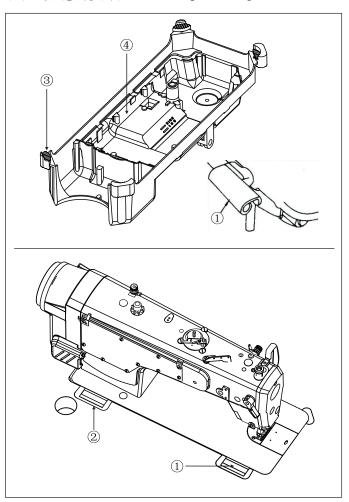


- 1)油盘应搁在工作台凹槽四角。
- 2) 如图所示, 先将两只油盘支座小①与两只油盘支座大②分别置于油盘的四角, 然后将油盘③与油盘支座按如图所示方向放置于台板上.

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- 1) The oil pan should rest on the four corners of the machine table groove.
- 2)Fix two rubber seats ① and two rubber seats ②on the four corners of the oil pan.The oil pan should rest on the machine table groove.

(2). 铰链的安装 Installing the hinge



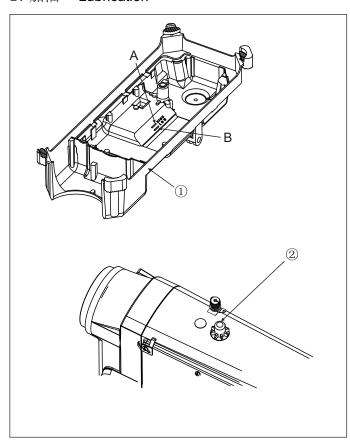
将机头连接钩①放入底板孔内,与台板的机头连接钩座②相嵌合,再将机头放到四只角的机头支座③上.

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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.



2. 加油 Lubrication



- 1)把专用10#缝纫机润滑油加入到油盘①,加到HIGH标记A的位置。
- 2)如果油面降到LOW标记B以下时,请再次把油加至HIGH位置。
- 3)加油后运转缝纫机,润滑正常时应能看到油窗② 里油面跳转。
- 4)油跳动量的大小与油量的多少无关,因此不用担心。

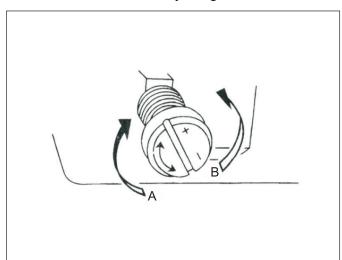
(注意)新缝纫机或较长时间没有使用的缝纫机,应进行约10分钟每分3000针的磨合运转。

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- 1) Fill oil pan ① with New Special Oil up to HIGH mark.
- 2) When the oil level lowers below LOW mark, 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.
- (Caution) When you first operate your machine after setup or after an extended period of disuse, run your machine at 3000 s.p.m. to 35000 s.p.m. for about 10 minutes for the purpose of break-in.

3.油量的调节 Adjusting the amount of oil

(1). 旋梭油量调整 Adjusting the amount of oil in the hook



- 1) 把下轴前段部的油量调节螺丝向+方向(A方向),转动油量增多,向-方向(B方向)转动油量变少。
- 2)油量调节螺丝调节后,请进行30秒钟的空运转,以确认油量。

- 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 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 (oil splashes) in the hook.



使用说明书 Operating Instructions

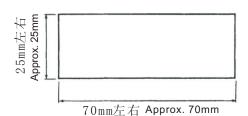
(2).油量的确认 Confirm the amount of oil



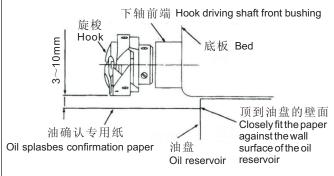
旋梭以调整运转。为了防止人身伤害,请充分注意调节油量。

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



- 不用考虑纸的质量
- · Use any paper available regardless of the material
- ②油量确认位置
- 2Position to confirm the amount of oil



- 把油量确认专用纸插到旋梭下面。
- Place the amount of oil (oil splashes) confirmation paper under the hook.

- 进行下列2的作业时,请卸下推板,同时要充分注意 手指不要碰到旋梭。
- 1) 机头冷却时,请进行3分钟左右的空载运转。(适当的间歇运转)
- 2) 请在缝纫机转到时将油量确认专用纸插入。
- 3) 请确认油盘的油面高度是否在HIGH和LOW范围之内。
- 4)油量确认时间为5秒钟。(用表来测定)

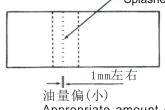
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When carrying out the procedure described below in 2, remove the slide plate and take extreme caution not to allow your fingers to come in contact with the hook. (Caution)

- 1) If the machine has not been sufficiently warmed up for operation, make the machine run idle for appro ximately three minutes.(Moderate inter mitten operation.)
- 2) Place the amount of oil (oil splashes) confirm mation paper under the hook while the sewing machine is in operation.
- 3) Confirm that 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.)

③适合的油量样品 ③Sample showing the appropriate amount of oil

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



5) 左图样品根据缝制工序需要微调增减,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,会玷污缝制品)

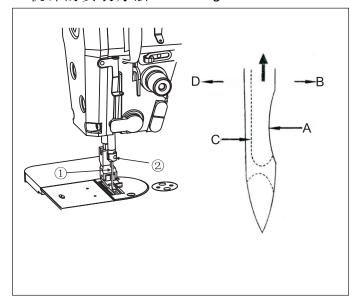
6) 油量应确认3次(3张)均无变化。

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- 5) The amount of oil shown in the semples 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 (be hook will be hot). If the amount of oil is too much, the sewing product may be stained with oil.)
- 6) Adjust the amount of oil in the hook so that the oil amount should not change while checking the oil amount three times (on the three sheets of paper).



4. 机针的安装方法 Attaching the needle



请根据线的粗细、布料的种类选择适当的机针。

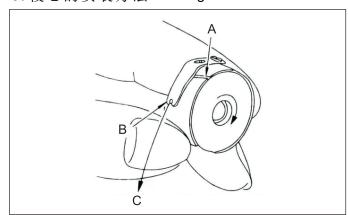
- 1) 转动手轮,把针杆升到最高处。
- 2) 拧松机针固定螺丝②, 手拿机针把机针①凹部A 横向转到B的方向。
- 3) 把机针插到针杆孔的深处。
- 4) 拧紧机针固定螺丝②。
- 5) 确认针的长孔C在左横向D的方向。

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Select a proper needle size according to the count of thread and the type of material used.

- 1) Turn the handwheel until the needle bar reaches the highest point of its stroke.
- 2) Loosen screw ②, and hold needle ① with its indented part A facing exactly to the right in direction B.
- 3) Insert the needle fully into the hole in the needle bar in the direction of the arrow until the end of hole is reached.
- 4) Securely tighten screw 2.
- 5) Check that long groove C of the needle is facing exactly to the left in direction D.

5. 梭心的安装方法 Setting the bobbin into the bobbin case



- 1) 手拿梭心, 让线往左绕C方向, 把它放入梭壳。
- 2) 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。
- 3) 拉底线C, 确认梭心是否按箭头方向转动。

EN

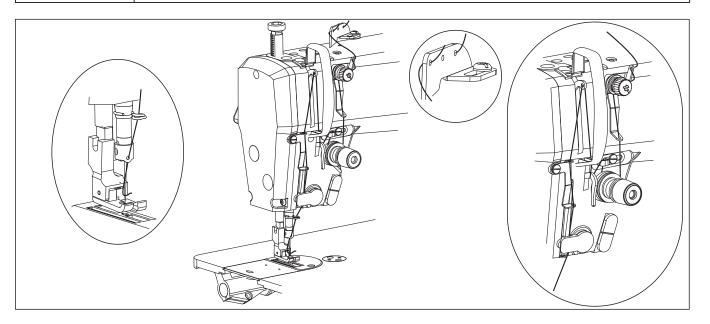
- 1) Install the bobbin in the bobbin case so that the thread wound direction is clock wise.
- 2) Pass the thread through thread slit, and pull the thread in direction. By so doing, the thread will pass under the tension spring and come out from notch.
- 3) Check that the bobbin rotates in the direction of the arrow when thread is pulled.

6. 上线穿线方法 Threading the machine head



为了防止意外的启动造成的事故,请关掉电源后进行。

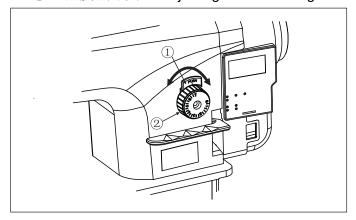
Turn OFF the power before starting the work so as to prevent accidents caused by abrupt start of the sewing machine.



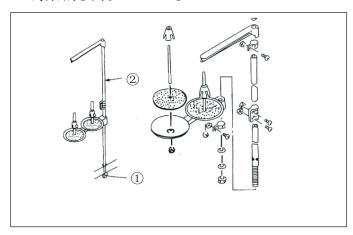




7. 缝迹长度的调节 Adjusting the stitch length



8. 线架的安装 Installing the thread stand



- 1) 按下锁针距压板①沿箭头方向转动送料距旋钮②, 并把希望的数字对准锁针距压板PUSH下面的刻线。
- 2) 刻度盘的数字单位为mm。
- 3) 从大往小变更送布刻度时,请按下锁针距压板① 同时转动送料距旋钮①进行调节。

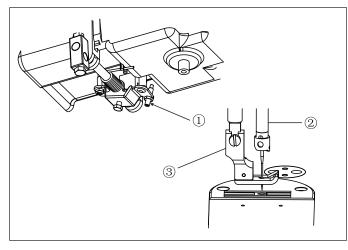
EN

- 1)Press lock stitch plate ① turn stitch length dial button ② in the direction of the arrow ,and align the desired number to marker line on lock stitch plate.
- 2)The dial calibration is in millimeters.
- 3)When you want to decrease the stitch length, press lock stitch plate ① while turn stitch length dial button ①.
- 1) 如图所示把线架安装到台板右上角孔上。
- 2) 用固定螺母①固定线架。
- 3) 若采用顶线配线时,请把电源线从线架杆②中穿过。

EN

- 1) Assemble the thread stand unit, and insert it in the hole in the machine table.
- 2) Tighten locknut ① to fix the thread stand.
- 3) For ceiling wiring, pass the power cord through spool rest rod 2.

9. 膝动提升高度的调整 Adjusting the height of the knee lifter

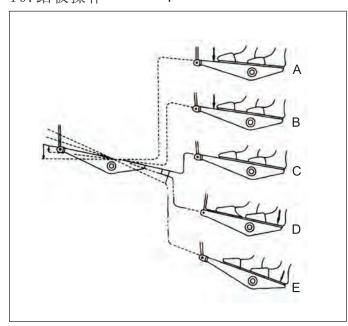


- 1) 膝动提升压脚的标准高度为10mm。
- 2) 调节膝动提升调节螺丝①可以把压脚最高提升到13mm。(薄料机种最大只能调到9mm)
- 3) 压脚提升到10mm以上时,调整时请注意不要让针杆②的前端在最下方时也不能碰到压脚③。

- 1) The standard height of the presser foot lifted using the knee lifter is 10mm.
- 2) You can adjust the presser foot lift up to 13 mm using knee lifter adjust screw ①. (The max, lift should be 9 mm for the weak material)
- 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.



Pedal operation 10. 踏板操作



- 踏板有4级操作。
- 1) 向前轻轻踩踏板为低速缝纫B。
- 2) 在继续往前踩踏板为高速缝纫A。(但是,设定 了自动倒缝开关后,倒缝结束之后为高速缝纫。)
- 3) 轻轻踩踏板然后返还缝纫机停止C(机器默认出厂 设置为下停针)。
- 4) 向后踩踏板为切线动作E。

若有自动抬压脚功能时, 在停止和切线之间增加半 后踏抬压脚功能开关。

向后轻轻踩踏板,为压脚提升动作D,再继续踩踏板 为切线动作。

始缝的自动倒缝过程中,把踏板返还中立位置则缝 纫机倒缝动作结束后停止。

高速缝纫或低速缝纫中向后用力踩踏板缝纫机均 可切线。

缝纫机切线中把踏板返还中立位置,但机器仍然把线

缝纫机停止机针下降之后,如果想升起机针时,请 往后踩一次踏板。

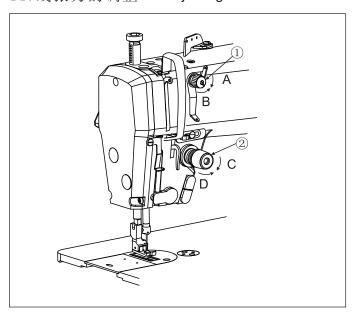
EN

- 1. The pedal is operated in the following four steps.
- 1) The machine runs at low sewing speed when you lightly depress the from part of the pedal
- 2) The machine runs at high sewing speed when you further depress the front part of the pedal . (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 .
- 4) The machine trims threads when you fully depress the back part of the pedal.
- If your machine is provided with the Auto-lifter (AK Series). 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, and if you further depress the back part, the thread trimmer is actuated.

- If you reset the pedal to its neutral position during the automatic reverse feed stitching at seam start, the machine stops after it completes the reverse feed stitching.
- The machine will perform normal thread trimming even if you depress the back part of the pedal immediately following high or low speed sewing.
- The machine will completely perform thread trimming even if you reset the pedal to its neutral position immediately after the machine started thread trimming action.
- · When the machine stops with its needle down, and if you want to bring the needle up, depress the back part of the pedal

11.线张力的调整 Adjusting the needle thread tension

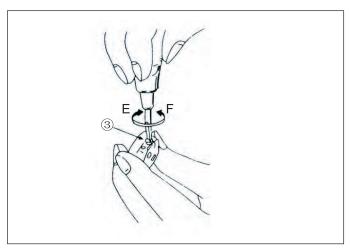


- 1. 上线张力的调整
- 1) 把第一线张力螺母向顺时针方向(A方向)转动,上 线张力变强。
- 2) 把第一线张力螺母向逆时针方向(B方向)转动,上 线张力变弱。
- 3) 把线张力螺母2向右C方向逆转,上线张力变强。
- 4) 向左D的方向转动则变弱。

- 1. Adjusting the needle thread tension
- 1) As you turn thread tension No.1 nut ① clock wise (indirection A), the thread remaining on the needle after thread trimming will be shorter.
- 2) As you turn nut (1) counter clock wise (indirection B), the thread length will be longer.
- 3) As you turn thread tension nut ② clock wise (indirection
- C), the needle thread tension will be increased.
- 4) As you turn nut 2 counter clock wise (indirection D), the needle thread tension will be decreased.



11. 线张力的调整 Adjusting the needle thread tension



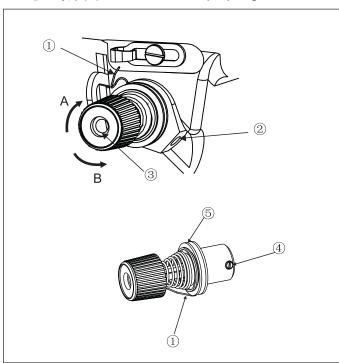
2. 底线张力的调整

- 1) 把底线张力螺丝③向右E的方向转动,底线张力变强。
- 2) 向左F的方向转动则变弱。

EN

- 2. Adjusting the bobbin thread tension
- 1) As you turn tension adjust screw ③ clock wise (indirection E), the bobbin thread tension will be increased.
- 2) As you turn screw ③ counter clock wise (indirection F), the bobbin thread tension will be decreased.

12. 挑线弹簧 Thread take-up spring

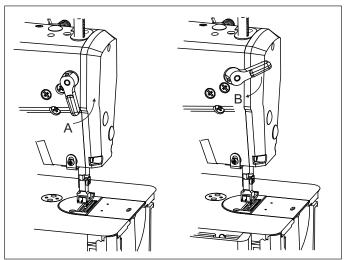


- 1. 要改变挑线弹簧①的行程时
- 1) 拧松固定螺丝②.
- 2) 把夹线螺钉③向右A的方向转动则变大。
- 3) 向左B的方向转动则变小。
- 2. 要改变挑线弹簧1的压力时
- 1) 拧松固定螺丝②,卸下大夹线器组件⑤。
- 2) 拧松夹线螺钉固定螺丝④进行调整。
- 3) 把夹线螺钉③向右A的方向转动则变强。
- 4) 向左B的方向转动则变弱。

FM

- 1. Changing the stroke of thread take-up spring ①
- 1) Loosen setscrew 2.
- 2) As you turn tension post $\ensuremath{\Im}$ clock wise (indirection A), the stroke of the thread take-up spring will be increased.
- 3) As you turn the knob counter clock wise (indirection B), the stroke will be increased.
- 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 clock wise (indirection A), the pressure will be increased.
- 4) As you turn the post counter clock wise (indirection B), the pressure will be decreased.

13. 压脚提升 Hand lifter



- 1) 让压脚停止到上升的位置,把压脚扳手①提到A的方向。
- 2) 压脚约上升5.5mm(厚料机种为6mm)停止,压脚扳手向B的方向落下压脚则返还原来的位置。
- 3) 膝动提升的标准量为10mm,最大可上升约13mm。

EN

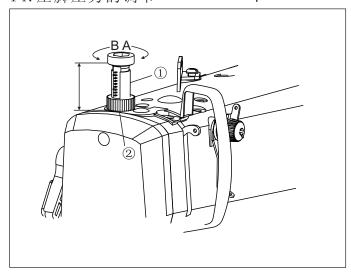
- 1) To stop the machine with its presser foot up, turn hand lifter lever $\widehat{\ }$ in the direction A.
- 2) The presser foot will go up about 5.5mm (6mm for thick material) and stop.

The presser foot will go back to its original position when hand lifter lever is turned down in direction B.

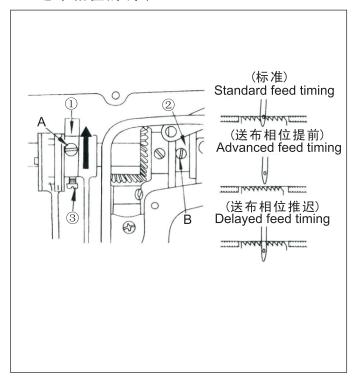
3) Using the knee lifter, you can get the standard presser foot lift of about 10 mm and the maximum lift of about 13 mm



14. 压脚压力的调节 Presser foot pressure



15. 送布相位的调节 Adjusting the feed timing



- 1) 拧紧螺母②, 把压脚调节螺钉①向右A方向转, 力变强。
- 2) 线左B方向转,力变弱。
- 3)调节后,拧紧螺母②。
- 4) 一般布料时,压脚调节螺钉的标准高度为 $29^{\circ}32$ mm。

EN

- 1) Loosen nut ②. As you turn presser spring regulator ① clockwise (in direction A), the presser foot pressure will be increased.
- 2) As you turn the presser spring regulator counter.-clockwise (in direction B), the pressure will be decreased.
- 3) After adjustment, tighten nut 2.
- 4) For general fabrics, the standard height of the presser spring regulator is 29 to 32 mm.
- 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往下落时,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。

- 1) Loosen screws $\ 2$ and $\ 3$ in feed eccentric cam $\ 1$, move the feed eccentric cam in the direction of the arrow or apposite 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 palte.
- 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.

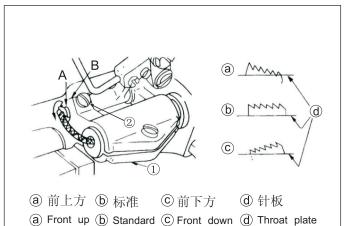
使用说明书 Operating Instructions

16. 送布牙的倾斜 Tilt of the feed dog



为了防止意外的启动造成的事故,请关掉电源后进行。

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)度是送布轴的刻点A和牙架座①的B部下降到20度水平送布轴侧的位置。
- 2) 为了防止缝制皱褶,向前抬起送布牙时,请拧 松紧固螺丝②,把螺丝刀插入送布轴,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,请沿与前头方向相反方向转90度。

EN

- 1)The standard tilt (horizontal of the feel dog is obtained when marker dot A on the feed bar shaft is aligned with marker dot A on feed rocker ①.
- 2)To tilt the feed dog with its front up in order to prevent puckering, loosen the set screw ②, and turn the feed bar shaft 90 degrees in the direction of the arrow, using a screw driver.
- 3)To tilt the feed dog with its from down in order to prevent uneven material feed, turn the feed bar shaft 90 degrees in the opposite direction from the arrow.

17. 送布牙的高度 Height of the feed dog



为了防止意外的起动造成的事故,请关掉电源后进行。

标准

Standard

261-140342

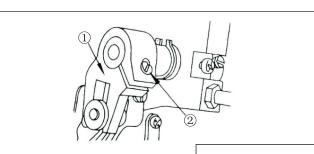
261-140342-A

0.9mm

261-160362

1.1mm

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



0.8~1.0mm 普通型 = Ma B

1.0~1.2mm 厚料 = (b)

(a) Feed dog (b) Throat plate

a 送布牙 b 针板

拧松」上下程然后打

3)调节送布牙时。拧松上下抬牙叉形曲柄①的固定螺丝②。

2) 缝制薄料时,送布牙伸出过高时容易起褶。

1) 送布牙@从针板®突出的量请调整为0.8~1.0mm。(厚料时为1.0~1.2mm)。

• 上下移动牙架进行调节。

• 然后拧紧固定螺丝②。

(0.7~0.9mm为适当。)

(注意) 拧得不紧时,会损伤叉口部。

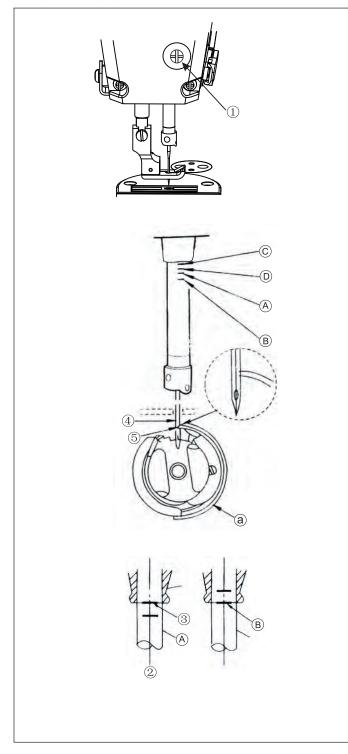
EN

- 1) The feed dog is factory-adjusted so that it jut out from the throat plate surface 0.8 to 1.0 mm (1.0 to 1.2 mm for thick material)
- 2) If the feed dog just out too much puckering may result when sewing tight-weight materials (Recommended protrusion 0.7 to 0.9 mm)
- 3) To adjust the height of the feed dog
- Loosen screw ② of crank ①.
- Move the feed barcker up or down to make adjustment.
- Securely tighten screw 2.

(Caution) If the clamping pressure is insufficient, the forked portion will wear out.



18. 机针与旋梭的关系 Needle-to-hook relationship



1)转动手轮,让针杆降到最低点,然后拧松针杆连接柱固定螺丝①。

(决定针杆高度)

2)(DB/134规格机针时)把针杆②的刻线 (A) 对准针杆下轴套③的下端,然后拧紧针杆连接柱固定螺丝(1)。

(DA/88x1规格机针时)把针杆②的刻线 ① 对准针杆下轴套③的下端,然后拧紧针杆连接柱固定螺丝①。(决定旋梭a的安装位置)

3)(DB/134规格机针时)拧松旋梭固定螺丝,转动带轮在针杆②上升的方向,把刻线 ® 对准针杆下套③的下端。

(DA/88x1规格机针时) 拧松旋梭固定螺丝, 转动带轮在针杆

②上升的方向,把刻线 ① 对准针杆下套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,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。

EN

- 1. Adjust the timing between the needle and the hook as follows:
- 1) Turn the handwheel to bright the needle bar down to the lowest point of its stroke, and loosen set screw $\mathbin{\textcircled{1}}$ (Adjusting the needle bar height)
- 2) (For a DB / 134 needle system) Align market line A on needle bar 3 with the bottom end of needle bar lower bushing 3, then tighten set screw 1.

(For a DA / 88x1 needle system) Align market line C on needle bar ② with the bottom end of needle bar lower bushing ③, then tighten set screw ①.

(Adjusting position of the hook (A))

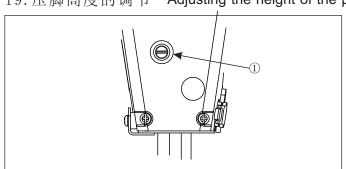
3) (For a DB / 134 needle system) Loosen the three hook setscrews, turn the handwheel, and align marker line B on ascending needle bar 2 with the bottom end of needle bar lower bushing 3.

(For a DA / 88x1 needle system) Loosen the three hook setscrews, turn the handwheel, and align marker line ① on ascending needle bar ② with the bottom end of needle bar lower bushing ③.

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

(Caution) 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. 压脚高度的调节 Adjusting the height of the presser foot

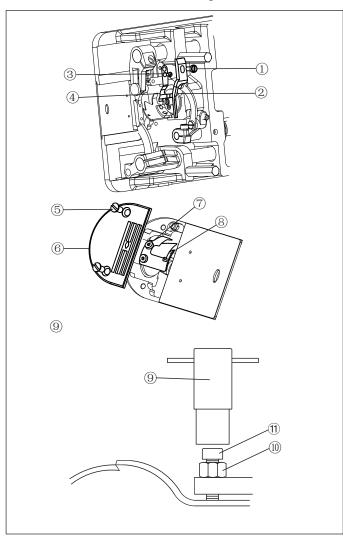


- 1)变换压脚高度或角度时,请拆下面板孔橡胶塞拧松压脚杆的固定螺丝①进行调节。
- 2) 调节后,再拧紧固定螺丝。

- 1) Loosen setscrew 1, and adjust the presser foot height and the angle of the presser foot.
- 2) After adjustment, securely tighten the setscrew ①.



20. 定刀与移动刀的转换 Change of fixed knife and shift knife



定刀的拆卸方法

- 1. 将缝纫机放倒。
- 2. 拆下紧固螺钉①和旋梭定位勾②。
- 3. 拆下沉头螺钉③和定刀④。

移动刀的拆卸方法

- 1. 用压脚扳手将压脚抬起。
- 2. 拆下沉头螺钉⑤,取下针板⑥。
- 3. 转动缝纫机主动轮,将针杆停止在最高位置。
- 4. 拆下沉头螺钉⑦,取下移动刀⑧。

定刀压力的调节

- 1. 拆下沉头螺钉⑤, 取下针板⑥;
- 2. 用套筒扳手⑨松开定刀压力调节螺母⑩, 把定刀压力调节螺钉⑪适当往下调。

注1. 拆针板⑥及动刀⑧时,请先取下机针。 组装按相反的顺序进行。

EN

Removing the fixed knife

- 1.Tilt back the machine head
- 2.Remove the screw (1) and rotating hook positioner(2)
- 3.Remove the screw3and the knife4

Removing the shift knife

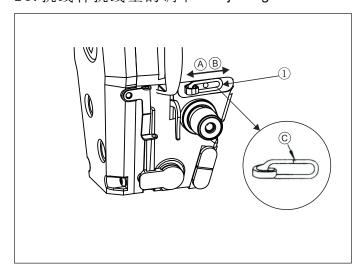
- 1.Let the presser foot up by presser foot lever
- 2.Remove the screw 5 and the needle plate.
- 3.Turn around the balance wheel, let the needle bar stop highest
- 4.Remove the screw 7 and the knife8

Adjusting pressure of the fixed knife

- 1.Remove the screw (5) and the needle plate (6).
- 2.Use the socket spanner 9 removing the screw 1, moving down the screw 1 to appropriate place.
- Note:1.Remove the needle before removing the needle plate (6) and the shift knife (8).

Installation refer to the reverse order.

21. 挑线杆挑线量的调节 Adjusting the thread take-up stroke

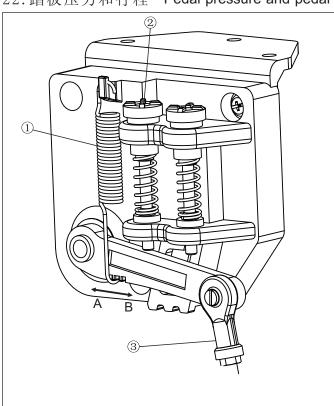


- 1) 缝制厚料时,导线勾①向左(A)方向移动,挑线量变大。
- 2) 缝制薄料时,导线勾①向左(B)方向移动,挑线量变小。
- 3) 导线勾①的刻线 ②在螺丝的中心位置时是标准位置。

- 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 left (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.



22. 踏板压力和行程 Pedal pressure and pedal stroke



- 1. 踏板踩踏压力的调整
- 1) 摘下踏板压力调节弹簧①进行调节。
- 2) 把弹簧挂到左侧A向压力变轻。
- 3) 挂到右侧B向压力变大。
- 2. 踏板返还力的调整
- 1) 用返踩调节螺丝②可以进行调节。
- 2) 拧紧调节螺丝压力变大。
- 3) 拧松螺丝压力变轻。
- 3. 踏板踩踏行程的调整
- 1) 把连接杆③安装到左侧的孔内,行程变小。

FN

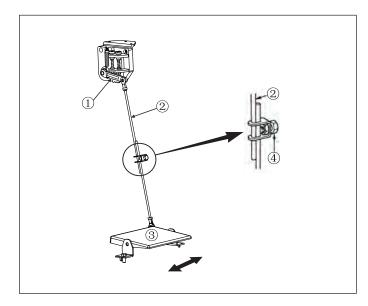
- 1. Adjusting the pressure required to depress the front part of the pedal
- 1) This pressure can be changed by altering the mounting position of pedaling pressure adjust spring $\ \$
- 2) The pressure decreases when you hook the spring on the left side.
- 3) The pressure increases when you hook the 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 increase as you turn the regulator screw in.
- 3) The pressure decrease as you turn the screw out.
- 3. Adjusting the pedal stroke
- 1) The pedal stroke decreases when you insert connecting rod $\ensuremath{\Im}$ into the left hole.

23. 踏板的调整 Adjustment of the pedal



为了防止意外的启动造成的事故,请关掉电源后进行。

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



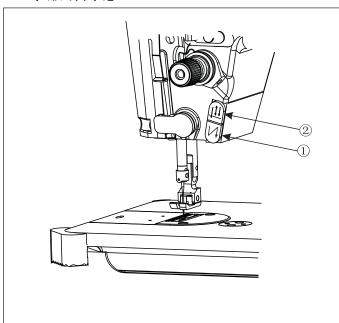
- 1. 连接杆的安装
- 1) 向箭头方向移动踏板调节板③, 让马达控制杆①和连接杆②成一直线。
- 2. 踏板的角度
- 1)调节连接杆的长度即可以改变踏板的角度。
- 2) 拧松调节螺丝④,移动连接杆②进行调节。

- 1. Installing the connecting rod
- 1) Move pedal ③ to the right or left as illustrated by the arrows 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 2.



使用说明书 Operating Instructions

24. 手触动倒缝 One-touch type recerse feed stitching mechanism

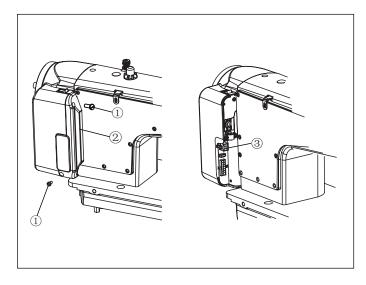


- 1. 倒缝按钮
- 1) 按下倒缝开关①,缝纫机立即倒缝。
- 2) 在按下的时间进行倒缝。
- 3) 手一松开立即变为正向缝纫。
- 2.补针按钮
- 1) 在缝纫过程中,没有进行剪线动作时,按下 补针按钮②然后释放,机器进行一针的补偿. 2)若按下按钮②不放,则直接进行普通缝纫,松开
- 后立即停止.

EN

- 1. How to operate
- 1) The moment switch lever ① is pressed, the machine performs reverse feed stitching.
- 2) The machine performs reverse feed stitching as long as the switch lever is held depressed.
- 3) The machine resumes normal feed stitching the moment the switch lever is released.
- 2.Fill needle button:
- 1)In sewing, if the machine can't trim, press the button ② and then release, the machine will fill one needle back. 2)Press the button ② all along, the machine sewing as normal, release the button, the foot switch closed.

25. 脚踏板的连接 Foot switch connection



脚踏开关的连接

- 1) 当机器及脚踏开关已经安装到台板上以后,卸下两个后电线盖螺钉①,然后卸下后电线盖②;
- 2) 把已经安装好的脚踏板插头插到电控的连接 口③的位置,然后轻踩脚踏确认机器能正常运转
- 3) 重新装上后电线盖②, 拧紧螺钉①.

EN

Foot switch connection

- 1. When the machine and pedal switch is already installed on the table, discharge these two back wire head bolts (1), and then discharge back wire cover2;
- 2.Put the pedal plug into the connector 3of electrical control, then test the machine with treading.
- 3.Re-install the ware head ②, and screw the bolts ①.



26. 规格 Specifications

Noise emission

Workspace-specific emission value as per DIN EN IOS 10821:

Lc:78 dB(A) at

- stitch length:4mm
- numder of stitches:4400 rpm
- sewing material:2-layer material

用途 Application		Single-needle Double Lockstitch Machine With Lower Transport For Light To Moderately Heavy Material			
驱动类型 Sewing drive		直接驱动 Direct-drive			
规格型号	MODLE	261-140342	261-160362	261-140342-A	
最高缝纫 Max.sew	速度 ing speed	5000	3500	5000	
最大针迹· Max.Stite		5mm	7mm	5mm	
压脚提	手提 Hand lift	5.5mm	6mm	5.5mm	
升高度 (mm) Presser	膝提 Knee lift	12mm(最大) 12mm(Max)			
Foot Lift 自动抬压脚 Auto lift 9m		9mm			
机针 Needle		Nm80	Nm110	DBX1 #14	
电机功率 Motor Po		550W			
润滑油 Lubricating Oil		Lubricating Oil DA 10: Viscosity at 40 °C: 10 mm²/s Flash point: 150 °C			



27. 常见故障与调整

在修理、服务之前请先按下面要点检查; 按照下方法处理仍不能排除故障时,请关掉电源开关,并及时与缝纫机经销商联系。

故障现象	产生原因	调整方法	页码
	①穿线是否正确	正确地穿线	4
	②上线张力过强或过弱	把张力调到适当	6
	③机针是否安装正确	正确安装机针	4
	④针尖是否弯曲、钝	更换机针	
	⑤旋梭、梭壳、挑线杆等过线道上无伤痕	修正伤痕或更换新品	
小にやた	⑥旋梭内是否有线头	清理旋梭	
断线	⑦线有问题		
	• 线的质量不好	换成质量好的线	
	线太粗	使用适当的针或适当的线	
	• 线受热熔解	安装线冷却装置	
	⑧机针型号调换	重新调整机针和旋梭的配合位置	
	9跗针	参照下一项目跳针。	
	①机针的安装方法不正确		
	• 没有完全插入针杆	把针插到针杆的顶部	
	•针孔没有对正	把针孔安装到正面	
	• 针装反了	把长槽转到前面	
跳针	② 针尖是否弯曲或损坏	更换机针	
	③穿线是否正确	正确地穿线	4
	④旋梭尖弯曲或折断	修理旋梭尖或更换新品	
	⑤机针和旋梭的同步不好	调整同步	10
	⑥机针与旋梭的间隙过大	调整间隙	10
	①压脚压力是否太小或太大	调节压脚压力	8
线迹不均匀	②送布牙是否太低	调节送布牙齿的高度	9
	③梭心是否损坏	磨擦毛刺或更换梭心	
	④V形皮带是否太松	调整到用手指推皮带时压下5-10mm	
	①上线与底线张力过强	逐渐调弱上线与底线的张力	7
	②压脚压力过强、送布牙过高	调整压脚压力、调低送布牙位置	7~9
线迹起皱	③机针尖损坏	更换机针	4
	④机针太粗	尽可能使用小号机针	
	⑤送料相位调整是否准确	参照"送料相位的调节"	8
	①开始缝纫时, 挑线杆未在最高位置	缝制开始时, 挑线杆调到最高位置	
开始缝纫时	②上线穿过机针余量太少	线从机针的线孔穿出50mm左右	
上线脱线	③小夹线器压力太大	调整小夹线器压力	
	④上针停止位置过高线被挑线拉出	调整上停针位置	
	①切线时, 梭心空转	更换梭心	4
始缝时跳线	②梭心里的底线长度短, 不出底线	更换梭心	4
	③切线后针孔的上线余量过短	调节小夹线器	



29. 常见故障与调整

故障现象	产生原因	调整方法	页码
	①机针是否外物碰撞弯曲了	更换机针	
	②机针的质量不好	更换质量好的机针	
	③机针没有完全插入针杆	插到针杆的顶部	
断针	④机针与旋梭相碰	调整针和旋梭的同步和间隙	10
	⑤与缝料和线相比针太细	换合适的机针	
	⑥机针与针板相碰	调正机针与针板的位置	
	⑦机针与压脚相碰	调正机针与压脚的位置	
上下线切不 断	①定刀与动刀磨损、不锋利	更换定刀、动刀	11
	①机针安装方法不对	正确安装机针	4
上线切不断	②夹线簧的行程太大	减小夹线簧行程	
工人の「助	③梭子定时配合不良	以低速启动,检查跳针现象,校正梭子的 时间配合	
底线切不断	①动刀后退量调节不良	检查动刀的后退量,调整剪线凸轮的左右 位置,以使切刀后退量达到适当的范围	11
	②剪线时底线位置不固定	检查梭子上有无底线引槽,若没有引槽, 应调换梭子	
正向送布与 反向送布针 迹不一致	①送布牙斜度调整不良	调整送布牙斜度	9
	①面线线迹总体不好		
	• 梭皮或梭壳被线磨出线槽, 拧紧后线还松的	更换新梭皮或将梭壳的线槽磨平	
面线不佳,底	• 送布时间与挑线时间配合过慢	打开机头侧盖板,松开主轴上的偏心轮紧固螺钉,将偏心轮固定不动,手转动皮带轮向机器运动的反方向转动一点,旋紧偏心螺钉.试车,一次调一点点直到面线好为止	
线 好 (浮	• 梭壳与旋梭花栏配合不佳	更换梭壳	
线)	• 底线过于收紧, 面线无法收回	放松机头夹线器螺丝,直到底、面线均匀为止	
	②面线出现时好时坏现象	7911.	
	• 梭皮无弹力,压不住线	更换新的	
	• 梭壳与旋梭的出线口配合不佳	更换梭壳	
	• 针板孔、定位勾有毛刺	对其进行抛光,确保线的出入顺畅	
	①面线的张力不够	略为加大夹线器弹簧及挑线簧的弹力	
	②机器机构相互运动配合不良	打开机头侧盖板,松开主轴上的偏心轮紧固螺钉,将偏心轮固定不动,手转动皮带轮向自己座位方向转动一点(逆时针方	
底线不好,面 线 好 (浮		向),旋紧偏心螺钉.试车,一次调一点点 直到底线好为止	
线 (4) (4)	③定位勾与旋梭之间的间隙太小或有毛刺	间隙太小可将定位勾装开些、有毛刺可通过抛光处理	
	④旋梭的弧形过或小螺钉有毛刺	通过抛光或磨光处理	
	⑤机针未对准定位勾和旋梭勾线部的中间	调整定位勾使机针对准它们的中间	
	⑥旋梭与花栏之间间隙太小或花栏有毛刺	重新调整它们之间的间隙、对花栏进行抛 光	



If you notice any of the problems listed below refer to the "Remedy" column for instructions on how to solve the problem. Our dealer or a qualified technician to carry out the necessary adjustment.

Phenomena	Possible cause	Remedy	Page
	①Is the needle properly installed	Re-threading correctly	4
	②When the needle thread is excessively	Adjust the thread tension	6
	tight or loose		0
	③Is the needle properly installed	Install the needle correctly	4
	④Is the needle tip bent or blunt	Replace the needle	
	⑤When there is a scratch on the thread	Remove such a scratch or replace the	
	catch of the sewing hook v bobbin case,	component	
Thread	there take-up lever or any other parts		
breakage	⑥Is thread in the rotary hook	Clean the rotary hook	
broakago	⑦When the thread is not suitable		
	·The quality of the thread is poor	Select good quality thread	
	·The thread is too thick	Use a suitable needle or thread	
	·The thread is broken by heat	Use silicone oil lubricant unit	
	®replace the type of needle	Adjust the position of needle and rotating	
		shuttle over again	
	<pre> Stitch skipping </pre>	Refer to the following paragraphs stitch	
		skipping	
	①When the needle is inserted in a wrong		
	way		
	the needle is not entirely into the needle	Fully insert the needle	
	The people eve is not feeing straight to	Let the needle eye face straight to the	
	the operator	operator	
	·The thread is facing backwards	Let the long groove on the needle face to	
Stitch	The throad to identify backwards	the operator	
skipping	②Is the needle tip bent or blunt?	Replace it with a new needle	
11 3	③Is the needle properly installed	Re-threading correctly	4
	(4) When the hook blade point is not sharp	· · · · · ·	-
	enough or damaged		
	⑤ When the timing of the sewing hook	Adjust the timing properly	10
	and the needle is not matched		10
	⑥ When the clearance between the	Adjust the clearance	10
	needle and the sewing hook is too great		10
	①Is the presser foot pressure too	Adjust the presser foot pressure	8
	weak or strong		•
	②Is the feed dog too low?	Adjust the feed dog height	9
Seams don't	③ls the bobbin scratched?	If bobbin is damaged .smooth it will an	
match		oiled grindstone or replace it	
	④Is the V-belt tension too low	Adjust so that there is 5-10mm of	
		deflection in the V-belt when it is pushed	
		with a finger	
	① The upper thread and lower thread	Adjust the thread tension	7
	tension is too strong	Decrease the presser feet pressure	7~ .0
Poor thread	②The presser foot pressure is too strong	Decrease the presser foot pressure	7∼9
tightening	③The needle tip is broken	Replace the needle	4
	④The needle is too thick	Use as thin a needle as possible	
	(5) whether the adjustment of feed position is correct	consult the adjustment of feed position	8



If you notice any of the problems listed below refer to the "Remedy" column for instructions on how to solve the problem. Our dealer or a qualified technician to carry out the necessary adjustment.

Phenomena	Possible cause	Remedy	Page
	①The thread take-up lever is not at its	Set the thread take-up lever to the	
Upper line	highest position at the sewing start	highest position at the sewing start	
	② The thread end is too short for the	Appros50 mm of thread should be coming	
	needle hole at the sewing start	out of the needle hole	
hole at the	③The upper thread tension is too strong	Adjust the upper thread tension	
sewing start	4 upper looper fixed too high thread	adjust the position of upper looper	
	being take-up		
The thread	①when cut thread, the bobbin is racing	Replace the bobbin	4
comes out of	2)the length of base line inside bobbin is	Replace the bobbin	4
	short and cannot appear base line	·	4
	3the pinhole upper line is too short after	adjust thread tension	
sewing start	cutting thread		
	①When the needle is bent	Replace the needle	
	②The quality of the needle is poor	Select good quality needle	
	③ the needle is not entirely into the	Fully insert the needle	
	needle bar		
The needle is	4When the needle hits the sewing hook	Adjust the timing and clearance between	
broken		the needle and the sewing hook and also	10
DIOREIT		the position of the needle guard	
	⑤The needle is too thin for the thread	Use a suitable needle	
	⑥The needle hits against the throat plate	adjust needle and needle plate position	
	⑦ The needle hits against the presser foot	adjust needle and press foot position	·
upper line and base line cannot cut	①fixed knife and move knife are abrasion ,blunt	change fixed knife and move knife	11
	①When the needle is inserted in a wrong way	Install the needle correctly	4
upper line cannot cut	②the distance of thread tension spring is too long	decrease the distance of thread tension spring	
	3hook timing is not good to cooperate	start in low speed and check slip stitch, revise time cooperation of hook	
base line	①cutting quantity cannot adjust well	Check the cutting quantity, adjust the left and right position of cutting thread cam, so that it can reach proper scope	11
oar ii iot oat	②the base line is not fasten when cutting	check whether there is base guide slot, if not, exchange hook	
	$\ensuremath{\bigcirc}$ the slope of feed dog cannot adjust	Adjusting the feed dog incline	
is not	well		
consistent in			9
observe feed			•
and reverse			
feed			



If you notice any of the problems listed below refer to the "Remedy" column for instructions on how to solve the problem. Our dealer or a qualified technician to carry out the necessary adjustment.

Phenomena	Possible cause	Remedy	Page
	①the face line stitch is not good		
	· hook skin and hook case are milled	change new hook skin or rub down hook	
	thread slot, the thread still lax after fasten	case thread slot.	
	the speed is slow when feeding and	Opening the side cover board of machine	
	picking thread	top, loosen the eccentric cam in principal	
		axis and fasten bolt, fix up eccentric	
		cam, turn strap wheel a little to opposite	
		position by hand, close eccentric screw,	
it is not so		test drive. adjust a bit till it is ok.	
	· hook case and rotating hook cooperate	Replace it with a new bobbin case	
line, however			
		release thread tension screw, until make	7
is good	cannot back	sure base and face line equality	-
	② face line appears broke down		
	sometimes but sometimes is ok		
	there is no elasticity of hook skin, thus	use new hook skin instead	
	cannot press down the thread		
	hook case and the thread exit of rotating	Replace it with a new bobbin case	
	hook cooperate not good		
		polishing them, and make sure thread go	
	orientation hook	the second secon	
		increase spring of thread tension spring	
	low	and thread take-up spring	
	•	Opening the side cover board of machine	
	good	top, loosen the eccentric cam in principal	
		axis and fasten bolt, fix up eccentric	
		cam, turn strap wheel a little to opposite position by hand, (counter-clockwise	
base line is)close eccentric screw, test drive. Adjust	
not good ,but		a bit till	
_		move positioning finger or polishing to	
good	clearance is too small or there is burr	solve it	
ľ	4 the arc of rotating or set screw have		
	burr	deal it through polish or burnish	
		adjust naisening finger to sim the middle	
	(5) needle is not aim at the middle of	jaujust poisoriirig iiriger to aim the middle 	
	poisoning finger and rotating hook		
	©hook case and rotating hook clearance	l -	
	is too small or there is burr	polishing	



AHE58/59 AC Servo System

HMI-12 User Manual

Safety Instruction

- · Please read this manual carefully, also with related manual for the machine head before use.
- · For perfect operation and safety, installing and operating this product by trained personnel is required.
- To avoid the abnormal running, please keep the product away from the high electromagnetic machine or electro pulse generator.
- Please don't operate when environment temperature is above 45°C or below 0°C.
- · Avoid operating in the area where humidity is 30% less and 95% more, also keep away from dew or acid spray area.
- · Effective and stable ground connection is a must.
- · All the maintenance parts need to be approved or provided by delegation.
- Turn off the power and unplug the cord before mounting motor and any accessories
- To avoid the static interference and current leakage, all grounding must be done. Use the correct connector and extension wire when connecting ground wire to Earth and secure it tightly.
- · Power must be turned off first, when:
 - (1). Uninstall the motor or the control box, or plug and unplug any connector.
 - (2). Turn off the power and wait 5 minutes before opening box cover.
 - (3). Raising the machine arms or changing needle, or threading needle. (Shown as above)?
 - (4). Repairing or doing any mechanical adjustment.
 - (5). Machines rest.
- · Regulation in Maintenance and Repairs :
 - (1). Maintenance and repairs must be done by trained personnel.
 - (2). Don't use any objects or force to hit the product.
 - (3). All spare parts for repair must be approved or supplied by the manufacturer.

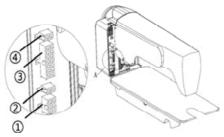
1 Installation Instructions

1.1 Product specifications

Product Type	AHE58-55	Supply Voltage	AC 220 ± 44 V
Power frequency	50Hz/60Hz	Maximum output power	550/750W

1.2 Interface plug connections

The pedals and the machine head of the connector plug are mounted to the corresponding position in the controller back of socket, as shown in Figure 1-1. Please check if the plug is inserted firmly.



①Pedals socket;

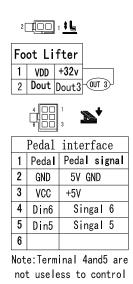
- ② Foot lifter solenoid socket;
- ③ Machine head solenoid socket;
- 4 LED light socket(black);

Note: The fig1.1-1 is the case of AHE-58 series, AH-59 series is not 4.

Fig.1-1 Controller Socket Diagram

The use of the normal force are not inserted into the plug and socket, please check whether the matching, direction or needle insertion direction is correct! Lighting interface and presser foot lifting electromagnet interface is a 1*2 interface, head lamp interface using black interface, please pay attention to the distinction.





	Machine Head solenoid						
	5 Out	5 Output 4 Output		tput			
1	VDD (+32V)	+32V	VDD (+32V	+32V			
2	VDD (+32V)	+32V	_		\vdash		
3	+5V	+5V	+5V	+5V			
4	GND (+32V)	32V GND				٦	
5	GND (+32V)	32V GND	GND (+32V)	32V GND		+	
6	VDD (+32V)	+32V	VDD (+32V)	+32V			
7	VDD (+32V)	+32V	VDD (+32V)	+32V		٦l	
8	JX	Trimming	JX	Trimming			
9	ВХ	wiping	_		-BX	}	
10	_		_				
11	Din2	FILL NEEDLE	Din2	FILL NEEDLE		#	
12	Din1	Back tack SW.	Din1	Back tack SW.		+	
13	DF	Back tack	DF	Back tack	FOF J		
14	SX	Nipping	SX	Nipping/Wiping	(SX)—		

Fig.1-2 Controller Interface Definition

1.3 Wiring and Grounding

We must prepare the system grounding project, please a qualified electrical engineer to be construction. Product is energized and ready for use; you must ensure that the power outlet the AC input is securely grounded. The grounding wire is yellow and green lines, it must be connected to the grid and reliable security protection on the ground to ensure safe use, and prevent abnormal situation.

All power lines, signal lines, ground lines, wiring not to be pressed into other objects or excessive distortion, to ensure safe use!

2 Operation Panel Instructions

2.1 Operation Panel Display Instruction



Fig.2-1 Operation Panel

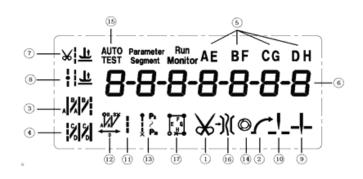


Fig.2-2 LCD Display

Index	Icon	Description	Index	Icon	Description
1	*	Automatic trimming	10		Position up
2	P	Soft start	111	0	Free sewing
3	A B B	Start back tacking	12	W	Bar tack sewing
4		End back tacking	(3)	Qu Des	Multi-section constant-stitch sewing
(5)	AE BFCGDH	Sewing segments index	(4)		One-shot sewing
6	8888888	Number display	15	AUTO TEST	Automatic test
7	% =	Presser foot lifting after trimming	16	-)/(Thread clamp
8		Presser foot lifting at seam end	17)	Ħ	Four-segment constant-stitch sewing
9		Position down			



2.2 Key Functions

Key	Name	Description
Q	Parameter setting key	Use the key to switch to the program mode. The key is parameters confirm key, and back to the previous menu until the operator sewing mode state. In addition, work with other key to set a higher level of the parameter.
	Start back tacking setting key	Switch during all start tacking type when pressing. (No tacking, once tacking double tacking 1, 4 repeat tacking 1, 1 Tacking stitches A. B can be set using the key and the key.
	End back tacking setting key	Switch during all end tacking type when pressing. (No tacking, once tacking, double tacking, 4 repeat tacking). Tacking stitches C \ D can be set using the key and the key.
	Free sewing	1). As the pedal is toed down, machine will start sewing. Once the treadle returned to neutral, machine will stop immediately. 2). As the pedal heeled back, the trimming cycle will be finished automatically.
	Bar tack sewing	Once the pedal is toed down, all the seams of bar tacking, A、B sections will be completed with D times, and the trimming cycle will be finished automatically. Note: When the bar tack sewing start, it will not stop until the trimming cycle finished, except for the pedal heeled back to cancel the action.
Fra control of the co	Four-section constant-stitch sewing	 As the treadle is toed down, Constant-stitch Sewing E \ F \ G or H performed section by section. Once the pedal returns to neutral intermediately in any one section, the machine will stop immediately. When the pedal toed down again the balanced stitches of E \ F \ G or H goes on. If the one-shot sewing key is set, the machine will not stop and automatically start trimming cycle and end back tacking at the end of the last section H.
100 kg	Multi-section constant-stitch sewing	As the treadle is toed down, constant-stitch sewing P01、P02、P03 etc. performed section by section. As following, P0 +0 +1 5, 1st number is total sections, 2nd number is which section, and 3rd number is the stitches of the section. P0 + is total segment, use key and the key to adjusting, the default maximum 24 segments, -0 +1 as the current setting segment, -1 +5 as the sewing needle NO.of the current segment, they are used the key and the key to adjusting.
	Soft start setting key	Soft start at the first seam is enabled (icon on) or disabled.
-)((Clamp setting key	Clamp function is enabled (icon on) or disabled.
ţ.	Forward stitch correction	One touch of this key act as stitch correction.
\boxtimes	Trimming cycle selection	Enable or disable the trimming cycle.
	Presser foot lifting Mode	Switch during all presser foot lifting mode when pressing the key. (No lifting, lifting after trimming cycle size only, lifting at machine stop le only, lifting at machine stop le and after trimming cycle size both).
0	One-shot-sewing selection	In constant-stitch sewing: a. One shot to the pedal, automatic performed number of stitches of every section. b. Toe down the pedal again and again to finish rest the sections until it finish pattern.
F	Custom function key	Special function according to the custom requirement.



Key	Name	Description
	Increasing and decreasing motor speed	The maximum motor speed can be adjusted using the keys.
<u> </u>	Up and down keys	Adjust the values in plus and minus state.

3 System Parameters Setting List

3.1 Technician Mode

NO.	Range	Default	Description	
100	100~800	200	Minimum speed	
101	200~5000	3500	Maximum speed	
102	200~5000	3000	Constant-stitch sewing speed	
105	100~500	250	Trimming speed	
106	0/1	0	Soft start mode: 0: soft start only after trimming 1	: soft start after both trimming and stop
רםו	1~9	2	Stitch numbers for soft start	
108	100~800	200	Soft start speed	
110	200~2200	1800	Start back tacking speed	
111	200~2200	1800	End back tacking speed	
115	200~2200	1800	Bar tacking speed	
113	1~70	24	Stitch balance for start back tacking No.1	
114	1~70	20	Stitch balance for start back tacking No.1	
115	1~70	24	Stitch balance for end back tacking No.3	
116	1~70	20	Stitch balance for end back tacking No.4	
רוו	1~ 100	90	Stitch balance for back tacking speed @(P107 - Tacking stitches A = 1)	
118	l~ 100	30	Stitch balance for back tacking speed @(P107 = Tacking stitches A)	
ПР	0~4	0	Start and end back tacking type (CD and AB) 0:B->AB->ABAB->none 1:B->none 2:B->AB->none 4:AB->ABAB->none	
110	0~9999		Tens digit for each segment of A/B/C/D	
114	0~9999	0	Tens digit for each segment of E/F/G/H	
I IE	0~9999	0	Tens digit for each segment of A/B/D	
l IF	0~359	0	Back tacking under angle control	
130	0/1/2/3	n	Speed curve adjustments: 0: ramp curve 2: quadric curve 3: S-type curve	1: polygonal curve.
131	200~4000	3000	The turning point speed of two segment curve.	
132	0~ 1024	800	The turning point sampling voltage of the pedal when two segment curve (Between parameter 138 and 139)	
133	1/2	1	The type of polygonal curve: 1: square 2: rooting	
134	0~ 1024	90	Trimming point of pedal	
135	0~ 1024	300	Footer lifting point of pedal	Figure 4-1 shows the specific setting
136	0~ 1024	460	Neutral point of pedal	method
137	0~ 1024	480	Motor running point of pedal in low speed.	



138	0~ 1024	580	Accelerated point of pedal	
139	0~ 1024	962	Max speed point of pedal	
138	0~800	100	The running delay time of footer lifting	
140	0/1	-	Soft start at the first cycle of power ON. 0: disable 1: enable	
141	0/1	1	Auto bar tacking function: 0: disable 1: enable	
			Bar tacking mode selection:	
142	0/1	0	0: Juki mode. Active when motor stop or running. 1: Brother mode. Active only when	
			motor running.	
			Special mode:	
			0: normal Mode 1: simply sewing mode 2: motor initial angle measurement (Do not	
143	0/1/2/3		remove the belt)	
			3: Automatically setting the pulley ratio by the CPU. (synchronizer is necessary and the belt	
			not removed)	
144	D~3 I	0	Feedforward torque of motor: 0: normal functions 1-31: feedforward torque level	
148	0/1/2	0	Mode of stitch correction 0: continuous; 1:half stitch; 2:one stitch	
149	0~ 10		The time of chopping on for the presser foot slow down (uint is 100us)	
140	1~9999	40	The time of chopping off for the presser foot slow down (uint is 100us)	
150	I∼ 100	I	The proportion coefficient of the stitches counter	
15 1	l∼9999	I	Maximum stitches of the counter	
			Count mode selection (For bobbin thread)	
			0: The counter is invalid 1: Count up by stitches. When count over, counter will be auto-	
			reset.	
			2: Count down by stitches. When count over, counter will be auto- reset.	
152	0~6	0	3: Count up by stitches. When count over, motor stops and the counter must be reset by the	
			external switch or the P key on the panel.	
			4: Count down by stitches. When count over, motor stops and the counter must be reset by	
			the external switch or the P key on the panel.	
			5: Count up by trimming. When count over, panel alarms and motor stops after trimming.	
15.3	1 100		6: Count down by trimming. When count over, panel alarms and motor stops after trimming.	
153	1~ 100		The proportion coefficient of the pieces counter	
154	I∼9999	ı	Maximum pieces of the counter	
			Count mode selection (For Sewing Piece) 0: The counter is invalid	
			1: Count up by pieces. When count over, counter will be auto- reset.	
			2: Count down by pieces. When count over, counter will be auto- reset.	
155	0~4		3: Count up by pieces. When count over, motor stops and the counter must be reset by the	
			external switch or the P key on the panel.	
			4: Count down by pieces. When count over, motor stops and the counter must be reset by	
			the external switch or the P key on the panel.	
156	0~9999	0	The output chopping duty cycle of No. 1/2/3/4 solenoid in each bit.	
157	0~9999	0	The output chopping duty cycle of No. 5/6/7/8 solenoid in each bit.	
158	□~	0	Counter adjustable: 0:adjustable, 1:not adjustable	
	l .		I	



16 1	0/1/2	Direction of parameter transfer: 0: no action	
162	1, 2	Restore factory setting	
163	1, 2	Save current parameters as user-defined default parameters.	
164	-	Password	
165	-	Restore the default factory setting, and cover the user defined para setting,.	

Note: To keep 160~164 parameters to be effective, you need press key about 3-5 seconds.

3.2 Administrator Mode

NO.	Range	Default	Description	
200	D / I / J		Trimming mode selection:0: lockstitch machine1: interlock machine: Needle stops at the up	
200	0/1/2	0	position and trim. 2: overlock machine: manual trimming	
20 1	0~359	0	Mechanical angle after trimming	
203	5-359	10	Trimming output start angle TS (down needle position angle as the reference point)	
204	10-359	120	Trimming output end angle TE (Down needle position angle is the reference and this value should be bigger than TS)	
20A	10-60	20	Motor torque improvement coefficient during trimming	
211	5-359	25	Thread release output start angle LS (down needle position angle as the reference point)	
2 12	10-359	350	Thread release output end angle LE (Down needle position angle is the reference and this value should be bigger than LS)	
2 13	1-999	1	Thread release output start delay time T1 (ms)	
2 14	l∼999		Thread release output end delay time T2 (ms) after up needle position	
2 15	0/1	-	Wiper function 0: disable 1: enable	
2 16	l∼999	10	Wiper output delay time (ms)	
217	l∼9999	סר	Wiper output time (ms)	
2 19	O/ I	0	Thread clamp function 0: disable 1: enable	
2 IA	10-359	120	Thread clamp start angle	
5 16	1 1-359	3 18	Thread clamp end angle	
2 IE	1 1-359	160	The angle of presser foot solenoid off during thread clamping	
220	200~360	360	Stop position after trimming (motor can stop with a reverse angle)	
231	0/1	0	Auto test mode: 0: stitches mode 1: time mode	
232	0~ 1000	300	Safe switch filtering time (ms)	
234	0 / I	0	Motor direction: 1: CCW 0: CW	
240	0~9999	1000	The ratio between motor and machine (1000 stands for 1:1)	
242	0~359	0	Up needle stop angle (After detecting the synchronizer signal)	
243	0~359	175	Down needle stop angle	
244	0~800	200	Running delay time when presser footer comes down (ms)	
247	0~2000	0	The alarm time for adding oil (hours), disabled when setting 0	

3.3 Monitor Mode

- 3. Press 🗷 key then return to normal sewing mode.



No.	Description	No.	Description
010	Counter for stitches	024	Machine angle
	Counter for sewing pieces	025	The sampling voltage of pedal
0 13	State of encoder	026	The ratio between motor and machine
020	DC voltage	רפם	The total used time(hours) of motor
150	Machine speed	028	The sampling voltage of interaction
022	The phase current	029	Software version
023	Initial electrical angle	030-037	The history record of error codes

3.4 The Warning Message

Alarm code	Description	Corrective	
ALA-1	Fuel filling warning	Fuel filling. Press P key to clear.	
ALH-5	Count over for stitches	The counter reaches the limit. Press P key to reset the counter.	
ALH-3	Count over for sewing pieces The counter reaches the limit. Press P key to reset the counter.		
ALA-4	Emergency stop	Press the key of emergency stop to clear.	
ALA-5	Lift needle locking	Then press the needle lifting locking button, can eliminate the needle lifting locking state.	
PoHoFF	Power is off	Please wait for 30 seconds, then turn on the power switch.	
A-U Ab	Safety switch alarm	Adjust the machine to the correct position.	

3.5 Error Mode

If the error code appears, please check the following items first:

1. Make sure the machine has been connected correctly; 2. Reload the factory setting and try again.

Error Code	Description	Solution
Err-Ol	Hardware overcurrent	Turn off the power switch, and restart after 30 seconds. If the controller still does not
Err-02	Software overcurrent	work, please replace it and inform the manufacturer.
Err-03	Under-voltage	- Check mains voltage - Stabilize mains voltage
Err-04	Over-voltage when the machine is off	Disconnect the controller power and check if the input voltage is too high (higher than 264V). If yes, please restart the controller when the normal voltage is resumed. If the
Err-05	Over-voltage in operation	controller still does not work when the voltage is at normal level, please replace the controller and inform the manufacturer.
Err-06	Short circuit of solenoid voltage 24V	- Take plug out, if error continues, replace control box - Test inputs/ outputs for 24V short circuit
Err-07	Motor current measuring failure	Turn off the system power, restart after 30 seconds to see if it works well. If such failure happens frequently, seek technical support.
Err-O8	Sewing motor blocked	- Eliminate sluggish movement in the sewing machine - Replace encoder - Replace sewing motor
Err-09	Brake circuit failure	Check the brake resistor plug on the electric board. Replace the control box
Err-10	Communication failure	Check the connection and if necessary plug in. Replace the control box.
Err-	Machine head needle positioning failure	Check if the connection line between machine head synchronizer and controller is loose or not, restore it and restart the system. If it still does not work, please replace the controller and inform the manufacturer.
Err- 12	Initial motor electrical angle failure	-Try 2 to 3 more times after power down - if it still does not work, please replace the controller and inform the manufacturer.



Err-13	Motor HALL failure	Turn off the system power, check if the motor sensor plug is loose or dropped off, restore it and restart the system. If it still does not work, please replace the controller and inform the manufacturer.		
Err- 14	DSP Read/Write EEPROM failure			
Err- 15	Motor over-speed protection			
Err-16	Motor reversion	Turn off the system power, restart the system after 30 seconds, if it still does not work, please replace the controller and inform the manufacturer.		
Err-17	HMI Read/Write EEPROM failure			
Err-18	Motor overload			
Err-23	Sewing motor blocked Sector error	- Eliminate sluggish movement in the sewing machine - Replace encoder - Replace sewing motor		

4 Special Functions

4.1 The Adjustment of Up Needle Stop Position

1	024000	Step 1: Press 2+ key, then enter the monitor mode. Parameter 024 is shown, which means the default up needle stop position in angle.
2	0240124	Step 2: Turn the hand wheel and adjust to the right position as up needle stop, and the needle position angle is shown simultaneously.
3	024000	Step 3: Press 2+ key, the new up needle position is preserved and the parameter is set to zero.

4.2 The Recovery of Default Factory Setting

1	024000	Step 1: Press 2+ key, then enter the monitor mode.
2		Step 2: Press key for about 5 seconds, then Default Factory Setting is recovered displaying as left LCD.
3	888888	When the LCD is displayed as 8888888, the recovery is accomplished. The machine is recovered back to the initial state in delivery.

4.3 Pedal Sensitivity Adjustment

Pedal starts moving from the initial position (p.136) where the motor stops, slowing forward to the low speed point (p.137) where the motor run as the minimum speed (p.100), continuing to the accelerated point (p.138) where the motor start to speed up, until the max speed point (p.139) where the motor run up to the maximum speed (p.101). And when the pedal steps back to the foot lifter position (p.135), the presser foot lift. Continuing back to the auto trimming position (p.134), the line is cut. Adjusting the corresponding parameters, user can acquire the proper pedal response to fit the personal habit.

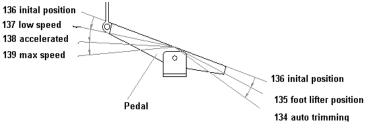


Fig. 4-1 pedal movement of each position parameter

386P0294A

2016-03-21



AHE-58/59 数控交流伺服系统 HMI-12 使用说明书

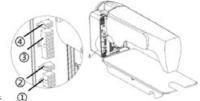
安全事项

- 在使用本产品之前,请先阅读《产品说明书》及所搭配的缝纫机机械说明书。
- 本产品必须由接受过专业培训的人员来安装或操作。
- 请尽量远离电弧焊接设备,以免产生的电磁波干扰本控制器而发生误动作。
- 请不要在室温 45°以上或者 0°以下的场所使用。
- 请不要在湿度 30%以下或者 95%以上或者有露水和酸雾的场所使用。
- 安装控制箱及其他部件时,请先关闭电源并拔掉电源插头。
- 为防止干扰或漏电事故,请做好接地工程,电源线的接地线必须以牢固的方式与大地有效连接。
- 所有维修用的零部件,须由本公司提供或认可,方可使用。
- 在进行任何保养维修动作前,必须关闭电源并拔掉电源插头。控制箱里有高压危险,必须关闭电源五分钟后方可打开控制箱。
- 本手册中标有 符号之处为安全注意点,必须注意并严格遵守,以免造成不必要的损害。

第1章 产品安装

1.1 产品规格

产品型号	AHE58/59-55	电源电压	AC 220 ± 20% V
电源频率	50Hz/60Hz	最大输出功率	550/750W



1.2 接□插头的连接

将脚踏板及机头的各连接插头安插到控制器后面对应的插座上如图 1-1 所示,

各插座名称如图 1-2 所示。连接好,请检查插头是否插牢.

例图 1-1 AHE 系列控制器图

①脚踏板插座;②抬压脚电磁铁插座;③自动电磁铁插座;④机头灯插座 (黑色); 注:图 1-1以AHE-58系列为例,AHE-59系列无④.

⚠:使用正常的力量插不进去时,请检查插头与插座是否匹配,插入方向或针的方向是否正确!照明灯接□和抬压脚电磁铁接□都是 1*2 的接□,机头照明灯接□使用黑色接□,请注意区分。



注: 4和5脚电控中没有用到

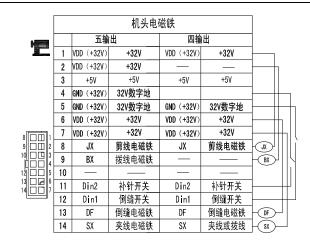


图 1-2 控制器接□定义

1.3 接线与接地

必须要做好系统的接地工程,请合格的电气工程人员予以施工。产品通电及投入使用前,必须确保电源插座 AC 输入端已安全可靠的接地。系统的接地线为黄绿线,该地线请务必可靠连接至电网安全保护接地上,以保证安全使用,并可防止出现异常情况。

⚠: 所有电源线、信号线、接地线等接线时不要被其它物体压到或过度扭曲,以确保使用安全!



第2章 操作面板使用说明

2.1 操作面板的显示说明

根据系统工作状态,操作面板的液晶屏模块将显示当前的缝纫模式、各种参数、前/后固缝设置,以及抬压脚、停针位、剪线、慢速起缝等液晶字符。H-12 操作面板液晶屏功能图标显示说明如下所示。



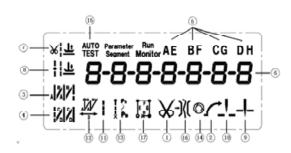


图 2-1 H-12 操作面板外观界面

图 2-

2 H-12 操作面板液晶显示屏图示

索引	图标	描述	索引	图标	描述
1)	₩	自动剪线功能	10		中间停针上停针
2	Ĉ	软启动功能	(I)	0	自由缝
3	1207	前加固缝	12	W.	W 缝
4	9 0 9	后加固缝	13	Pr \ P	多段缝
(5)	AE BFCGDH	缝纫段数标记	14)		多段缝触发功能
6	888888	计数/参数值显示	(15)	AUTO TEST	自动测试
7	%[큐	剪线后抬压脚	16	-)/(夹线功能
8		中间停针抬压脚	17	Ħ	四段缝
9	4	中间停针下停针			

2.2 操作面板各按键功能说明

序号	外观	名称	功能描述
1	P	确认及 返回键	按键输入参数确认键,并回退到上一级菜单直至操作员缝纫工作状态。此外,还可与其它按键同时按下实现组合功能,可进入高级参数与功能设置。
2		前加固	亦称为起始倒针功能选择键,每按动一次,系统前固缝工作模式将按照 11B 号参数设置在无前固缝与前单固缝 ³ 4、前双固缝 3 前四固缝 3 之间循环选择,对应液晶屏图标点亮。同时显示 4 中 即为前固缝界面,选择对应的 ○ 键和 ○ 键可增减设置 A、B 段的针数,默认针数范围 1~F 对应 1~15 针。
3	N ₃	后加固 缝键	亦称为结束倒针功能选择键,每按动一次,系统后固缝工作模式将按照 11B 号参数设置在无后固缝与后单固缝。
4		自由 缝键	按下该键,系统即进入自由缝工作模式,对应液晶屏图标 • 被点亮,踩下踏板即可开始缝纫。
5	OB BX	W 缝键	按下该键,系统即进入W缝工作模式,对应液晶屏图核 被点亮,同时显示 ЧЧ Ч即为W缝界面,选择对应的 和 键可增减设置 A、B、D段的针数,默认针数范围 1~F对应 1~15针。
6	E SE	多段缝键	亦称为定长缝,按下该键,系统即进入多段缝工作模式,对应液晶屏图标。被点亮,同时显示 P① +① ト 15 即为多段缝界面,图中 P □ + 为总段数,可用 2 键和 2 键增减调整,默认最大 24 段, -□ (为当前设置段, - 15 为当前段的缝制针数,这些数字均可通过对应的 1 键和 2 键增减调整。



序号	外观	名称	功能描述
7	F G	四段	按下该键,系统即进入四段缝工作模式,对应液晶屏图标。 被点亮,同时显示 ЧЧЧ 即为四段缝界面,
	[like	缝键	选择对应的 (基本) 健和 (基本) 健可增减设置 E、F、G、H 段的针数,默认针数范围 1~F 对应 1~15 针。
8	<u>\</u>	软启 动键	按下该键,液晶屏图标。亮,表明软启动有效,再按一下该图标熄灭,表明关闭软启动功能。
9	-)(夹线键	按下该键,液晶屏图标,亮,表明夹线功能有效,再按一下该图标熄灭,表明关闭夹线功能。
10	<u>ت</u>	补针键	在自由缝中途停车或多段缝段间停车时,按下该键可实现补针功能。点动按键为补半针,按下时间稍长为补一针,保持按下则连续补针。此外,通过组合键
11	\mathbb{X}	自动剪线键	按下该键,液晶屏图标分点亮,表明自动剪线功能有效,再按一下该图标熄灭,表明关闭剪线功能。
12	E	抬压脚键	每按动一次,系统抬压脚模式将在不自动抬压脚、剪线后自动抬压脚。
13		多段缝触发键	在多段缝和四段缝模式下,按下该键,液晶屏图标 点点,表明选择触发模式有效,此时点动脚踏板一次即可完成当前段的设定针数缝制;再按一下该图标熄灭,表明多段缝下触发功能关闭。
14	Œ	自定义 功能键	自定义扩展功能按键,并根据情况可扩展为与其它按键同时按下实现组合功能。
15		速度増減键	可快速调整系统的最高转速。在多段缝模式下,亦为总段数的调整按键。此外,在参数设置时,可作为对应参数号的调整按键。
16	△ ∨	参数增减键	调整对应数值的增加键与减小键。

第3章 系统参数设置说明

3.1 技术员参数表

- 1、 先按下2键, 后按下2键, 可修改技术员参数表;
- 2、 液晶屏显示**P d-0 0 0 0**,要求键入技术员密码,初始密码为 **□□□□**,按对应的 **△**键和 **▽**键可更改密码数值;
- 3、 按下2键,如密码正确,即进入技术员参数设置模式,显示 00-000.
- 4、按下对应的 课報和 课可选择参数编号并更改相应的参数值;
- 5、 最后按下望键,即退出参数设置模式,回到缝纫工作模式。

参数编号	参数范围	典型值	参数描述	备注
100	100~800	200	起缝速度	
101	200~5000	3500	自由缝最高速 (全局最高限速)	
102	200~5000	3000	多段缝最高速	速度
105	100~500	250	剪线速度	<i>还</i> /支
רםו	l~9	2	慢速起缝针数	
108	100~800	200	慢速起缝速度	
110	200~2200	1800	前固缝速度	
111	200~2200	1800	后固缝速度	



1 15	200~2200	1800						
113	I~70	24	 前固(及 W) 缝针迹补偿 1 (吸合:					
1 14	1~70	20	 前固(及 W) 缝针迹补偿 2 (释放:					
115	1~70	24	后固缝针迹补偿1(吸合补偿,					
116	1~70	 20	后固缝针迹补偿2(释放补偿,					
117	1~ 100	90						
118	I~ IOO	30	针迹速度补偿 (P107=A 段针数)					
			前后加固模式类型。(CD 与 AB 多	类似)	加固缝 			
116	0-4	0	0: B->AB->ABAB->无。 1: B->	无。 2: B->AB->无。	参数			
			3: AB->无。 4: AB->ABAB->无.					
110	0~9999	0	ABCD 各段的十位数(按位分配)					
114	0~9999		EFGH 各段的十位数(按位分配)					
I IE	0~9999		ABD 各段的十位数(按位分配)					
l IF	0~359	0	手动倒缝角度控制					
	0/1/2/		脚踏板曲线模式:					
130	3	2	0: 自动线性斜率 (根据最高速	自动计算)				
	,		1: 两段斜率; 2: 幂次曲线;	3: S 型曲线				
131	200~4000	3000	两段斜率:中段速度 RPM (两段	斜率的转折点速度)	_			
132	0~ 1024	800	两段斜率:中段踏板模拟量(需	e在 138 到 139 参数之间)				
133	1/2	1	幂次曲线:					
	., -		1:平方曲线;2:开方曲线;		踏板 —			
134	0~ 1024	90	踏板剪线位置		参数			
135	0~ 1024	300	踏板抬压脚位置					
136	0~ 1024	460	踏板回中位置	│ │ 具体设置方法见图 4-1 所示。				
137	0~ 1024	480	□ 踏板前踩运行位置 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □					
138	0~ 1024	580	□ 踏板低速运行位置(上限) □					
139	0~ 1024	962	踏板模拟量最大值		_			
I 3R	0~800	100	踏板抬压脚确认时间					
140	0/1	1	上电自动找上针位:0:不找;	1: 找	_			
141	0/1	1]固功能的机头,最好禁止此功能)				
			0:禁止固缝; 1:允许固缝		_			
			手按回缝时功能模式选择					
145	0/1	0	0: Juki 模式。在缝纫中途或中					
			1: Brother 模式。仅在缝纫中设	金有动作。	-			
			特殊运行模式:		习惯			
	0/1/2/	_	0:操作工选择(正常)					
143	3	0	1: 简易缝模式		设定			
			2: 测电机初始角(不需要取下)					
			3: 计算传动比模式 (需要有停	\dashv				
144	0~3			E常功能; 1 [~] 31:低速加力过厚能力档位	_			
148	0/1/2	0		2制; 1: 补半针; 2: 补一针 ————————————————————————————————————				
149	0~ 10	0	缓放压脚斩波开通时间(100us è	单位)				
140	1~9999	40	缓放压脚斩波关断时间(100us)	单位)				



150	I~ 100	I	计针数功能比例值设定		
15 1	I∼9999	I	计针数上限设定值		
152	0~6		计针数模式选择: 0: 不计数 1: 依针数递增计数, 计数满后自动重新计数 2: 依针数递增计数, 计数满后自动重新计数 3: 依针数递增计数, 计数满后马达自动停止, 须由复位按钮设定或面板上的 P 键来启动重新计数。 4: 依针数递减计数, 计数满后马达自动停止, 须由复位按钮设定或面板上的 P 键来启动重新计数。 5: 依针数递增计数, 计数满后发出报警, 剪线后马达锁住 6: 依针数递减计数, 计数满后发出报警, 剪线后马达锁住		
153	I~ 100	1	计件数功能比例值设定		
154	I∼9999		计件数上限设定值	计数	
155	0~4		计件数模式选择: 0: 不计数 1: 计件数递增计数, 计数满后自动重新计数 2: 计件数递减计数, 计数满后自动重新计数 3: 计件数递增计数, 计数满后马达自动停止, 须由复位按钮设定或面板上的 P 键来启动重新计数。 4: 计件数递减计数, 计数满后马达自动停止, 须由复位按钮设定或面板上的 P 键来启动重新计数。	模式	
156	0~9999	0	对应 1/2/3/4 号电磁铁斩波占空比时间选择 (0 以 ms 为单位, 1 以 0. 1ms 为单位)		
157	0~9999	0	对应 5/6/7/8 号电磁铁斩波占空比时间选择 (0以 ms 为单位,1以 0.1ms 为单位)		
158	□~	0	计数可调开关(计针数和计件数) (0 可调, 1 不可调)		
16 1	0/1/2		参数传输: 0: 无动作; 1: 下传参数; 2: 上传参数		
162	1, 2		灰复出厂参数		
163	1, 2		保存当前参数为用户自定义机修参数 (可恢复)		
164	=		密码		

注: 16X 参数操作须长时间按住 **2**键大约 3-5 秒。

3.2 系统员参数表

- 先按下2键,后按下2键,可修改系统员参数表;
- 2、 液晶屏显示**P d-0 0 0 0**,要求键入系统密码,初始密码为 0000,按对应的 △键和 ✓键可更改密码数值;

- 5、 最后按下2键,即退出参数设置模式,回到正常缝纫模式。

参数编号	参数范围	典型值	参数描述	备注
200	0/1/2	0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	模式选择:0:平车式;1: 绷缝式(普通绷缝剪线:停到上针位包缝式:手动剪线



20 1	0~359	0	剪线结束时机械角度	
203	S-359	10	剪线开始角度 TS (相对于下针位角度)	
204	10-359	120	剪线结束角度 TE (相对于下针位角度,需大于 TS)	
20A	10-60	20	剪线加力系数(电机加力)	
211	5-359	25		
2 12	10-359	350	松线电磁铁结束角度 LE (相对于下针位角度,需大于 LS)	
2 13	1-999	I	松线电磁铁启动延迟时间 L1 (ms)	
2 14	I∼999	10	松线电磁铁上针位后延迟时间 L2 (ms)	剪线
2 15	0/1	1	扫线功能选择: 0: 关闭; 1: 打开	模式
2 16	l∼999	10	拨线 / 扫线延迟时间 ms	
217	l~9999	סר	拨线 / 扫线持续时间 ms	
2 19	0/1	0	夹线功能选择: 0: 关闭; 1: 打开	
2 IA	10-359	120	夹线开始角度	
5 1P	l I-359	3 18	夹线结束角度	
S IE	l I-359	160	夹线时压脚抬起后的下放角度	
550	200~360	360	剪线后停止位置(可实现剪线回拉功能)	
77.1	0/1		自动测试模式选择: (前面两位数所表示的测试模式设置) 0: 定针数; 1: 定	# * +
231	U / I	0	时间 (×100ms)	模式选择
535	0~ 1000	300	安全开关报警确认时间 ms (直驱翻台开关和绷缝剪刀保护开关均同样处理)	处排
234	0/1	0	电机转向: 1: 反转; 0: 正转	
240	0~9999	IDDO	电机/机头传动比: X0.001	
טרים	בכככ ~ים	1000	(如果自动计算过传动比,控制器内的该参数可能与 HMI 上的不同)	
242	0~359	0	上停针位调整角度(相对于上针位传感器的位置偏移)	
243	0~359	175	下停针位机械角度	
244	0~800	200	放压脚延迟时间 (ms)	关参数
247	0~2000	0	加油提醒时间(小时)0: 关闭此功能	
248	0~4000	0	加油报警、禁止运行时间(小时)0: 关闭此功能	

3.3 监控参数表

- 1、 先按下 ☑键,后按下☑键,可进入监控模式,液晶屏默认显示 024 号参数□ ≥ ᢡ□ □ □ □;
- 3、 最后按下 知键,即退回到正常缝纫模式。

参数编号	参数描述	参数编号	参数描述	参数编号	参数描述
0 10	针数计数	022	相电流	n27	电机累计运行时间 (Hour)
011	计件数	023	初始角度	028	机头交互量电压采样值

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D 13	霍尔状态	024	机械角度	029	DSP 软件版本号
020	母线电压	025	踏板电压采样值	030-037	历史故障代码
02 1	机头速度	026	机头传动比实际值		

3.4 安全报警表

报警代码	代码含义	解决措施		
ALA-1	加油提醒	按P键可暂时取消报警,请及时加油并运行时间复位操作		
ALH-5	计针数报警	表示计针数已达所设上限,按 P 键可取消报警并重新计数		
ALA-3	计件数报警	表示计件数已达所设上限,按 P 键可取消报警并重新计数		
ALA-4	紧急停车	再按下紧急停车按钮,可消除紧急停车状态		
ALR-5	提针锁定	再按下提针锁定按钮,可消除提针锁定状态		
Poyoff	断电提醒	请等候 30 秒再重新打开电源开关		
ЯгП ЦР	R - П U P 翻台开关报警 摆正机头,确保翻台开关复原			

3.5 故障代码表

若系统出现报错或报警,请首先检查如下项:

1、先确认机器的连接线是否连接完好:2、确认电控和机头是否匹配:3、确认恢复出厂是否准确。

1、元明以初	:确认机器的连接线是否连接完好;2、确认电控和机头是否匹配;3、确认恢复出厂是否准确。 ————————————————————————————————————		
故障代码	代码含义	解决措施	
Err-Ol	硬件过流	关闭系统电源,30 秒后重新接通电源,控制器若仍不能正常工作,请更换控制器并通知厂	
Err-02	软件过流	方。	
Err-03	系统欠压	断开控制器电源,检查输入电源电压是否偏低(低于176V)。若电源电压偏低,请在电压恢复正常后重新启动控制器。若电压恢复正常后,启动控制器仍不能正常工作,请更换控制器并通知厂方。	
Err-04	停机时过压	断开控制器电源,检查输入电源电压是否偏高(高于 264V)。若电源电压偏高,请在电压	
Err-05	运行时过压	恢复正常后重新启动控制器。若电压恢复正常后,启动控制器仍不能正常工作,请更换控制器并通知厂方。	
Err-06	电磁铁 回路故障	关闭系统电源,检查电磁铁连线是否正确,是否有松动、破损等现象。若有则及时更换。确认无误后重启系统,若仍不能工作,请更换控制器并通知厂方。	
Err-07	电流检测 回路故障	关闭系统电源,30 秒后重新接通电源观察是否能正常工作。重试几次,若该故障频繁出现,请更换控制器并通知厂方。	
Err-DB 电机堵转 断开控制器电源,检查电机电源输入插头是否脱落、松动、破损,是否有异排除后重启系统仍不能正常工作,请更换控制器并通知厂方。		断开控制器电源,检查电机电源输入插头是否脱落、松动、破损,是否有异物缠绕在机头上。排除后重启系统仍不能正常工作,请更换控制器并通知厂方。	
Err-09	r-D9 制动回路故障 关闭系统电源,检查电源板上白色的制动电阻接头是否松动或脱落,将其插紧后若仍不能正常工作,请更换控制器并通知厂方。		
Err- 10	HMI 通讯故障	检查控制面板与控制器的连线是否脱落、松动、断裂,将其恢复正常后重启系统。若仍不能正常工作,请更换控制器并通知厂方。	
Err- I I	Err-II		
Err- 12	电机初始角度检测故障	请断电后再尝试 2-3 次,若仍报故障,请更换控制器并通知厂方。	
Err-l3 电机 HALL 故障 关闭系统电源,检查电机传感器接头是否松动或脱落,将其恢复正常后重启系统正常工作,请更换控制器并通知厂方。		关闭系统电源,检查电机传感器接头是否松动或脱落,将其恢复正常后重启系统。若仍不能正常工作,请更换控制器并通知厂方。	
Err- 14	DSP 读写 EEPROM 故障	关闭系统电源,30 秒后重启系统,若仍不能正常工作,请更换控制器并通知厂方。	



Err- 15	电机超速保护	
Err- 16	电机反转	
Err- 17	HMI 读写 EEPROM 故障	
Err-18	电机过载	
	中机棒柱房区建设	断开控制器电源,检查电机电源输入插头是否脱落、松动、破损,是否有异物缠绕在机头
Err-23	电机堵转扇区错误	上。排除后重启系统仍不能正常工作,请更换控制器并通知厂方。

第4章 特殊功能操作说明

4.1 上停针位调整

		控制系统在恢复出厂后,可根据需要重新设置上针位!
1	024000	第一步: 先按住᠌键,再按່█键,即进入监控模式,默认为 024 号监控参数,液晶屏显示当前角
		度,如为 0°表明此位置为系统当前默认的上停针位置。
2	0240124	第二步:转动手轮,让挑线杆到上停针位置或希望调整到的合适位置,此时液晶屏显示调整后的
		上停针位,如 124.
3	024000	第三步: 先按住望键,再按望键,使机械偏转角度归零,上停针位设置完成。最后按望键退出。

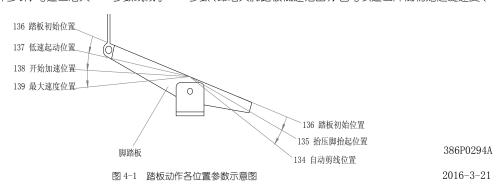
4.2 一键恢复机头厂家参数值

1	0240000	如果希望恢复机头厂家的出厂参数,可按照如下步骤:	
1		第一步:先按住22键,再按30键,即进入监控模式,默认为 024 号监控参数。	
2		第二步:长按 F 键3秒钟以上,开始一键恢复机头厂家参数,液晶屏显示横杠,表明正在恢复参	
2		数,此时控制器切勿断电或拔出操作面板插头。	
3	888888	待数码管显示全 8,表明机头厂家参数恢复完成。	

4.3 脚踏板灵敏度调整

脚踏板动作由初始位置① (136号参数) 开始,缓慢向前踩至② (137号参数) 开始低速缝纫,继续前踩至③ (138号参数) 开始加速,再深踩至④ (139号参数) 达到最高速度。②③段之间维持起缝速度,③④段之间为无级调速过程;

1、当脚踏板由初始位置①(136号参数)开始,缓慢后踩至⑤(135号参数)时抬压脚自动抬起;2、当脚踏板由初始位置①(136号参数)开始,缓慢后踩至⑥(134号参数)时自动完成剪线动作。3、各参数数值设置需保证(134号参数)〈(135号参数)〈(136号参数)〈(137号参数)〈(138号参数)〈(139号参数)4、可通过监控模式下025号参数实时监测,不同位置下的踏板采样数值作为各参数的参考值。调整对应参数,抬压脚和前踩或后踩的动作位置也随之改变。如前踩很大距离机器还没有运转,可适当减小137参数(不能小于回中位置参数136),即可提高前踩的灵敏度;若机器过于灵敏,轻触踏板机器就开始运行,可适当加大137参数;若不容易补针,稍微前踩,速度就迅速提高造成前冲多针,可适当增大138参数或减小137参数(即增大脚踏板低速范围),也可以适当降低初始起缝速度(100)。

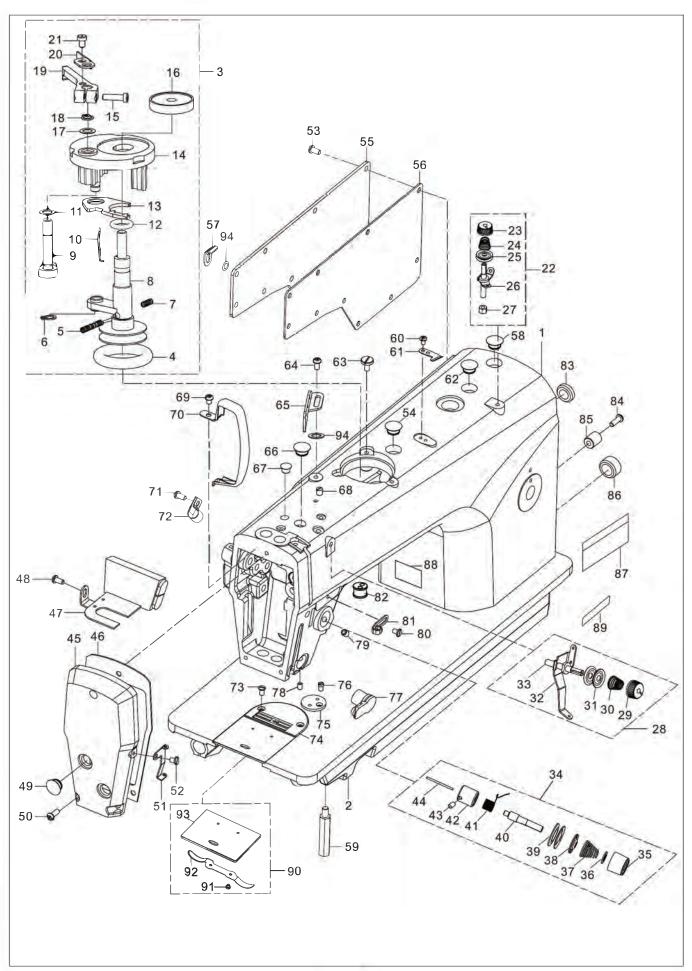




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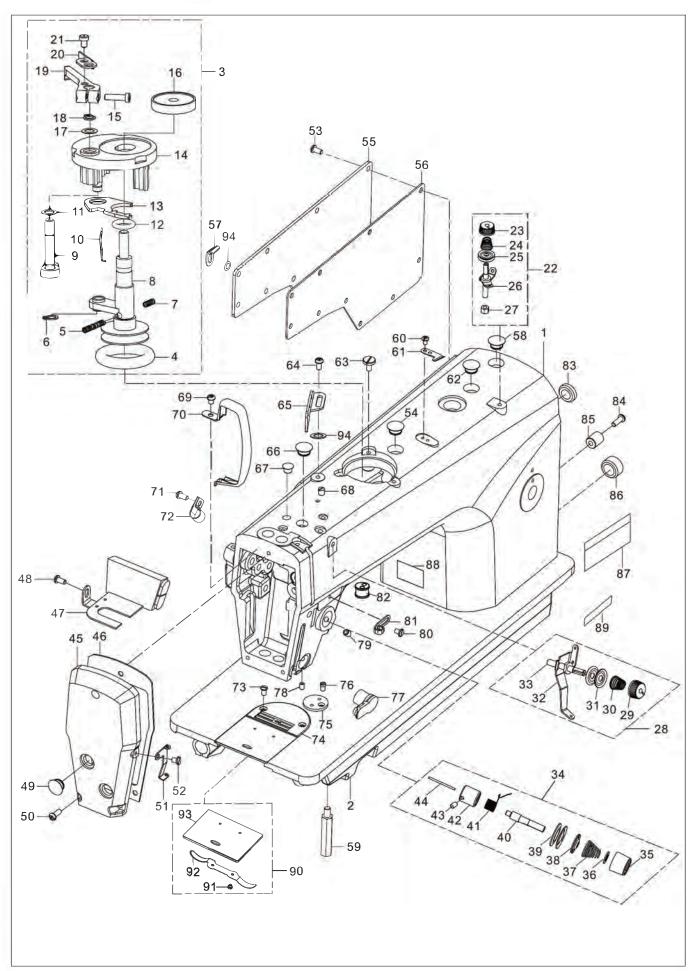






序号 NO.	图号 REF NO.	名称	DESCRIPTION
1	SG1281-05-01	机壳	Machine Frame
2	SG1230-01-01-02	底板	Bed
3	SG1281-05-07	绕线器组件	Bobbin Winder Asm.
4	SG31-25070000-09	●型 圏	O Ring
5	SG134-02-01	压紧弹簧	Presser Foot Spring
6	SG24-05000000-08	固定卡簧	Retaining Ring
7	SG134-02-01-10	弹簧	Spring
8	SG134-02-01-01	绕线轴组件	Bobbin Winder Asm.
9	SG134-02-01-06	绕线凸轮轴组件	Bobbin Winder Cam Asm.
10	SG134-02-01-12	梭心防转弹簧	Latch Spring
11	SG134-02-01-08	绕线器扳手轴调整垫圈	Vertical Roller Washer
12	SG31-09428000-09	●型圏	Rubber Ring
13	SG134-02-01-07	绕线制动传动板	Adjusting Plate
14	SG134-02-01-05	绕线座	Bobbin Fitting Basis Compl
15	SG11-60091320-01	固定螺钉	Screw Sm9/64x40 L=13
16	SG134-02-01-11	梭心垫	Bobbin Cushion
17	SG134-02-01-08	绕线器扳手轴调整垫圈	Vertical Roller Washer
18	SG24-05000000-08	卡簧	E-ring
19	SG134-02-01-02	绕线控制扳手	Bobbin Lever
20	SG134-02-01-04	绕线调节板	Bobbin Winder Adjust Plate
21	SG11-40090625-01	紧定螺钉	Screw Sm9/64x40 L=6
22	SG1281-05-13A	绕线夹线器组件	Bobbin Thread Tension Asm.
23	SG134-02-02-01	夹线螺母	Thread Tension Nut
24	SG134-02-02-04	夹线簧	Connecting Rod Spring
25	SG134-02-02-03	夹线板	Thread Tension Disk
26	SG134-02-02-02	夹线柱组件	Bobbin Thread Tension Rod Asm.
27	SG13-60115520-02	锁紧螺母	Nut Sm11/64x40
28	SG1281-05-14A	小夹线器组件	Pre-tension Asm.
29	SG109-01-26	夹线螺母	Tension Nut
30	SG109-01-25	夹线弹簧	Tension Spring
31	SG109-01-24	夹线板	Thread Guide Disc
32	SG109-01-23	上过线板	Through Thread Plate
33	SG109-01-22	导线柱	Needle Thread Guide Pin
34	SG1281-05-12A	大夹线器组件	Pre-tension Asm.
35	SG101-03-28	夹线螺母	Tension Nut
36	SG101-03-27	夹线制动板	Tension Disc Stopper
37	SG101-03-26	夹线簧	Tension Spring
38	SG101-03-25	松线板 夹线板	Tension Disc Holder
39	SG101-03-24		Thread Guide Disc
40	SG101-03-21	夹线螺钉(柱) 挑线簧	Tension Pole
41	SG101-03-20		Take-up Spring
42	SG101-03-19-01	挑线簧调节座 夹线座紧固螺钉	Tension Pole Socket Screw Sm9/64x40 L=6
43	SG11-80090610-01	火线座系回縣 5 松线钉	
44 45	SG101-03-23 SG1281-01-07	面板	Thread Release Pin Face Plate
45	SG1281-01-07 SG1281-01-08	面板垫	Face Plate Face Plate Gasket
47	SG1281-01-08 SG1281-05-18A	回 似 至	Reverse Feed Switch Asm.
48	SG1281-05-18A SG11-40120625-05	倒送料转换器固定螺钉	Screw Sm3/16x28 L=6
40	SG101-01-11	面板调节螺孔塞	Rubber Plug
50	SG11-40121225-05	面板螺钉	Screw Sm3/16x28 L=12
51	SG1281-01-13	面板线钩	Two Hole Thread Guide
52	SG1281-01-13 SG11-70110620-05	左线勾螺钉	Arm Thread Guide Screw Sm11/64x40 L=6
53	SG11-40120925-05	后窗板螺钉	Screw Sm3/16x28 L=9
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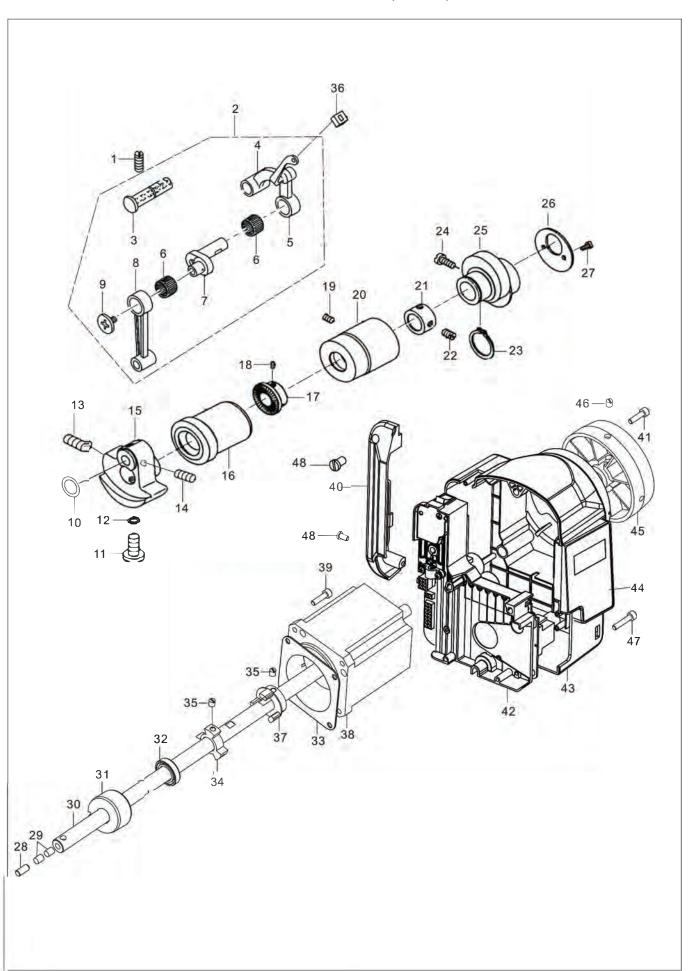




茅号 NO.	图号 REF NO.	名称	DESCRIPTION
54	SG101-01-11	面板调节螺孔塞	Rubber Plug
55	SG1255-01-05	后窗板	Side Plate
56	SG1255-01-06	后窗板垫	 Side Plate Guide
7	SG1273-12-05	直角电线夹	Rectangular Wire Clamp
8	SG101-01-11	调同步孔橡皮塞	Rubber Plug
9	SG101-01-15	底板支座	Bed Screw Stud Sm15/64x28
0	SG11-00090620-05	割线刀固定螺钉	Screw Sm9/64x40 L=6
1	SG1281-05-21	割线刀	Thread Cutter
2	SG101-01-11	面板调节螺孔塞	Rubber Plug
3	SG11-70121020-05	绕线器固定螺钉	Screw Sm3/16x28 L=10
1	SG11-40120625-05	三眼过线板螺钉	Screw Sm3/16x28 L=9
5	SG1255-01-15	三眼过线板	Three Thread Eyelet Pate
6	SG101-01-11	面板调节螺孔塞	Rubber Plug
7	SG101-01-12	挑线连杆销孔塞	Rubber Plug
8	SG11-80150710-05	小夹线器固定螺钉	Pre-tension Screw
9	SG11-40120625-05	挑线杆护罩螺钉	Screw Sm3/16x28 L=6
0	SG1281-05-25	挑线杆护罩	Thread Take-up Lever Cover
1	SG12-40500625-02	电线夹固定螺钉	Screw Sm11/64x40 L=8
2	SG1281-05-41	塑料双电线夹	Plastic Double Wire Clamp
3	SG11-20110920-05	针板螺钉	Screw Sm11/64x40 L=9
4	SG109-01-44A	针板	Needle Plate
5	SG101-01-17	安装板	Ruler Stop Seat(261-140342-A)
5	SG1281-05-31	安装板	Ruler Stop Seat(261-140342/261-160362)
6	SG11-00110620-05	安装板定位螺钉	Screw Sm11/64x40 L=5.5
7	SG1281-01-14	电子夹线器	Electric Thread Nipper
8	SG12-80500612-01	电子夹线器固定螺钉	Electric Thread Nipper
9	SG11-80150710-05	大夹线器螺钉	Screw Sm15/64x28 L=7
0	SG11-70110620-05	右线勾螺钉	Arm Thread Guide Screw Sm11/64x40 L=6
1	SG101-03-16	右线勾	Arm Thread Guide Screw Sill 1704x40 E=0 Arm Thread Guide (right)
2	SG1281-02-03	三孔橡胶塞	
3	SG101-01-02	送料调节器孔塞	Tripple-hole rubber stopper Rubber Plug
4	SG11-40121425-01	倒缝扳手限位销螺钉	Screw Sm3/16x28 L=14
5	SG1281-01-24	图缝扳手限位销	Limit Place Bushing
6	SG101-01-03	下轴工艺孔塞	Rubber Plug
7	SG9830 910008 SZ	机身型号牌标签	Model Plate
8	SG0798 446511 DE	警告标签	Warning Label
9	SG9830 910009	中国制造标签	Warning Label Warning Label
0	SG101-06-39	中国制造协金 推板组件	Slide Plate Asm.
1	SG11-60060220-01	推板簧螺钉	Screw Sm3/32x56 L=2
$\begin{bmatrix} 1 \\ 2 \end{bmatrix}$	SG101-06-40	推板簧	Slide Plate Spring
3	SG101-06-40 SG101-06-39-1	推 似 黄 推 板	Slide Plate Slide Plate
3 4			Washer
4	SG21-05310100-02	后窗板螺钉垫片	vvasilei



2.上轴及挑线部件 Main Shaft & Thread Take-up Components



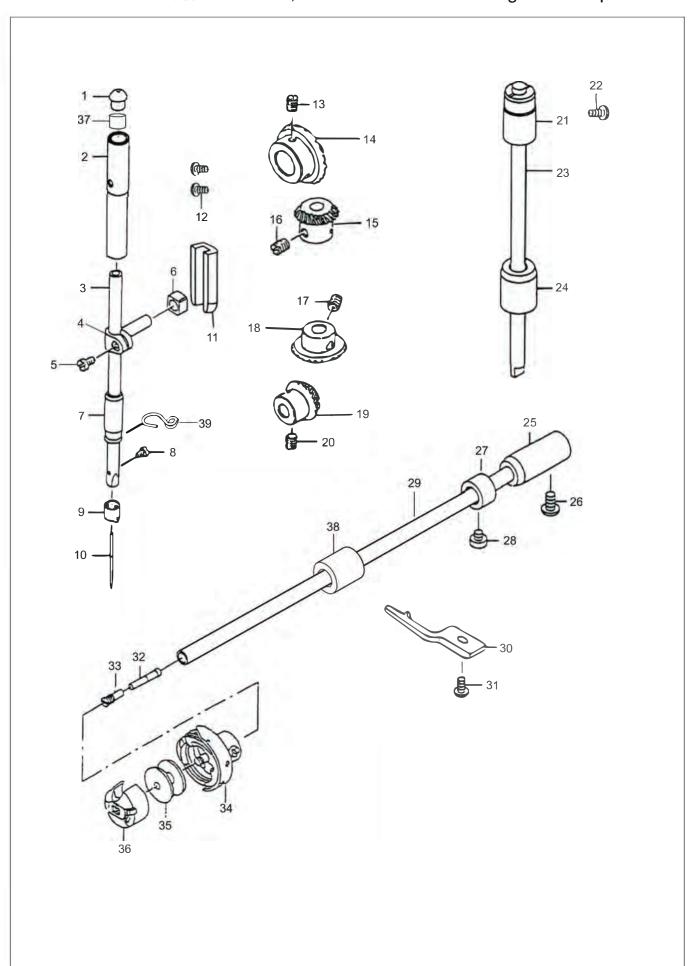


2.上轴及挑线部件 Main Shaft & Thread Take-up Components

序号 NO.	图号 REF NO.	名称	DESCRIPTION
1	SG11-80151550-01	挑线连杆销螺钉	Set Screw Sm15/64x28 L=11
2	SG1281-01-30A	挑线杆大组件	Thread Take-up Lever Asm.
3	SG101-02-25	挑线连杆销	Hinge Pin
4	SG101-02-22-05	挑线连杆	Thread Take-up Lever Link
5	SG1281-01-30-01	挑线杆组件	Thread Take-up Lever
6	SG101-02-24	滚针轴承	Needle Bearing
7	SG101-02-20-00	挑线曲柄组件	Thread Take-up Crank
8	SG1281-01-30-02	针杆连杆	Needle Bar Link
9	SG101-02-28	挑线曲柄左旋螺钉	Set Screw (left Handed)
10	SG21-08008160-01	挑线杆垫片	Counter Weight Protecting Plate
11	SG11-60181630-01	针杆曲柄定位螺钉	Screw Sm9/32x28 L=16
12	SG31-04424000-09	定位螺钉●形圈	Rubber Ring
13	SG11-80181650-01	针杆曲柄紧固螺钉	Set Screw Sm9/32x28 L=16
14	SG11-80160612-01	针杆曲柄螺钉	Screw Sm1/4x40 L=6
15	SG1281-05-03	针杆曲柄	Needle Bar Crank
16	SG1281-05-04	上轴前轴套组件	Main Shaft Bushing (left)
17	SG1255-02-10	绕线轮	Driving Wheel
18	SG11-80160810-01	绕线轮固定螺钉	Screw Sm1/4x40 L=8
19	SG11-80150710-01	上轴中轴套螺钉	Set Screw Sm15/64x28 L=7
20	SG1255-02-12	上轴中轴套	Main Shaft Bushing (middle)
21	SG101-02-33	上轴挡圈	Thrust Collar Asm D=14.72 W=12
22	SG11-80160710-01	上轴挡圈螺钉	Screw Sm1/4x40 L=7
23	SG25-20000000-08	抬牙连杆轴用挡圈	Snap Ring
24	SG11-00161120-01	送料偏心轮螺钉	Screw Sm1/4x40 L=11
25	SG101-06-02	送料偏心轮	Feed Drive Eccentric Cam
26	SG101-06-04	送料偏心轮盖板	Thrust Collar
27	SG11-10090620-01	送料偏心轮盖板螺钉	Screw Sm9/64x40 L=6
28	SG1281-01-39	上轴油量堵销	Oil Seal Pin
29	SG101-02-11	曲柄油量限制垫	Roller Felt
30	SG1281-05-05	上轴	Main Shaft
31	SG1281-05-06	上轴后套	Supporting Sleeve
32	SG32-13850360-09	上轴油封	Oil Seal
33	SG1255-02-09	电机防油垫	Motor Oil Pad
34	SG1302-12-19	联轴器A	Coupling A
35	SG12-80600812-01	螺钉	Set Screw Socket M6 L=8
36	SG101.02-23	挑线杆防油套	Oil Protect Bushing
37	SG1281-05-08	联轴器B	Coupling B
38	SG1281-05-02-01-02	电机组件	Motor Asm.
39	SG16-60501822-01	电机安装螺钉	Bolt Socket M5 L=18
40	SG1281-05-02A-04	后电线罩	Rear Wire Cover
41	SG12-60501822-01	电控安装螺钉(短)	Bolt Socket M5 L=18
42	SG1281-05-02A-0101	电路板组件	Electronic Control Board
43	SG1281-05-02Λ-02	电机罩壳	Motor Casing
44	SG1281-05-02A-03	操作面板	Operation Plate
45	SG1281-05-11A	手轮	Hand Wheel
46	SG12-80500612-01	手轮螺钉	Bolt Socket M5 L=6
47	SG12-60502522-01	电控安装螺钉(长)	Bolt Socket M5 L=27
48	SG12-60401220-01	后电线盖板螺钉	Screw Sm3/16x28 L=9



3.针杆、竖轴、下轴部件 Needle bar, vertical shaft & hook driving shaft components



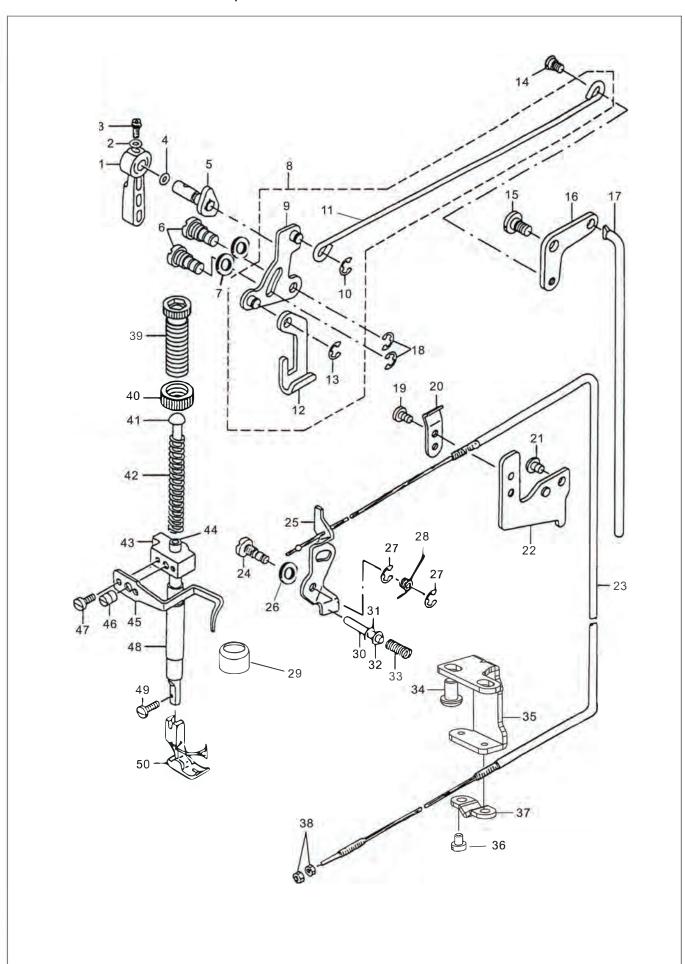


3.针杆、竖轴、下轴部件 Needle bar, vertical shaft & hook driving shaft components

序号 NO.	图号 REF NO.	名称	DESCRIPTION
1	SG101-03-07	针杆上衬套孔塞	Rubber Plug
2	SG1281-01-25	针杆上套	Needle Bar Upper Bushing
3	SG1281-01-37	针杆	Needle Bar (261-140342-A)
3	SG1281-05-32H	针杆	Needle Bar (261-160362)
3	SG1281-05-32	针杆·	Needle Bar (261-140342)
4	SG120-02-07	针杆连接柱	Needle Bar Connection
5	SG11-60090620-01	针杆连接柱螺钉	Screw Sm9/64x40 L=6
6	SG120-02-25	针杆连接柱滑块	Slide Block
7	SG101-03-08	针杆下轴套	Needle Bar Bushing Lower
8	SG11-60080520-01	机针固定螺钉	Screw Sm1/8x44 L=5
9	SG101-03-11	针杆过线环	Needle Bar Thread Guide
10	SG101-03-13	机针DBX1 14#	Needle DBx1 14# (261-140342-A)
10	SG124-04-24	机针134 Nm90	Needle 134 Nm90 (261-140342)
10	SG101-03-13H	机针134 Nm110	Needle 134 Nm110 (261-160362)
11	SG120-02-23	针杆滑块导轨	Guide For Slide Block
12	SG11-60110820-01	滑块导轨螺钉	Screw Sm11/64x40 L=8
13	SG11-80160810-01	伞齿轮螺钉	Screw Sm1/4x40 L=8
14	SG101-05-26	上轴伞齿轮	Bevel Gear For Arm Shaft
15	SG101-05-25	竖轴上伞齿轮	Bevel Gear For Vertical Shaft
16	SG11-80160810-01	伞齿轮螺钉	Screw Sm1/4x40 L=8
17	SG11-80160810-01	伞齿轮螺钉	Screw Sm1/4x40 L=8
18	SG101-05-20	竖轴下伞齿轮	Bevel Gear For Vertical Shaft
19	SG101-05-18	下轴伞齿轮	Bevel Gear For Hook Shaft
20	SG11-80160810-01	伞齿轮螺钉	Screw Sm1/4x40 L=8
21	SG1281-05-30	竖轴上轴套	Upright Shaft Bushing Upper
22	SG11-40120925-01	竖轴上轴套螺钉	Screw Sm3/16x28 L=9
23	SG101-05-24	竖轴	Vertical Shaft
24	SG101-05-21	竖轴下轴套 下轴后轴套	Upright Shaft Bushing Lower
25 26	SG1281-05-31	下轴后轴套螺钉	Bushing For Rotating Hook Shaft Screw Sm3/16x28 L=9
27	SG11-40120925-01 SG402-04-21	下轴挡圈	Thrust Collar
28	SG11-80160512-01	下轴挡圈螺钉	Screw Sm1/4x40 L=5
29	SG1230-05-07	下轴	Rotating Hook Shaft
30	SG101-05-05A	旋梭定位钩	Positioning Finger
31	SG11-60111120-01	旋梭定位钩螺钉	Screw Sm11/64x40 L=11
32	SG101-05-09	下轴限油芯	Oil Wick
33	SG101-05-08	下轴限油螺钉	Oil Seal Screw
34	SG109-03-24	旋梭组件	Hook Asm.
35	SG402-04-04	梭心	Bobbin
36	SG0281 150084	梭心套	Bobbin Case
37	SG1280-01-23	针杆上套羊毛毡	Needle Bar Sleeve Wool Felt
38	SG158-05-19	下轴中套	Lower Shaft Middle Sleeve
39	SG1281-05-20	针杆下套过线钩	Needle Bar Thread Guide



4. 压脚部件 Presser bar components

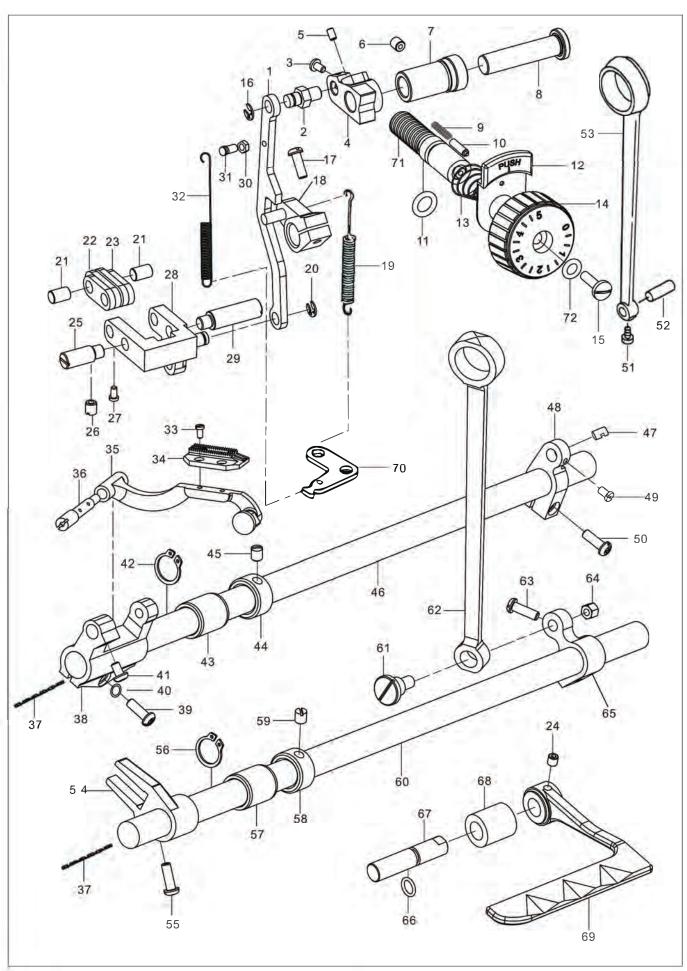




4. 压脚部件 Presser bar components

序号 NO.	图号 REF NO.	名称	DESCRIPTION
1	SG1281-05-15A	压脚扳手	Hand Lifter
2	SG21-03810080-05	压脚扳手螺钉垫圈	Washer
3	SG11-30091020-05	压脚扳手螺钉	Screw Sm9/64x40 L=10
4	SG31-04018000-09	压脚扳手轴●形圈	Rubber Ring
5	SG1281-01-10	压脚扳手凸轮组件	Hand Lifter Cam Asm.
6	SG101-04-20	前杠杆螺纹销	Link Shaft Sm5/16x24
7	SG101-04-21	螺纹销密封垫圈	Washer Plate
8	SG101-04-19	抬压脚杠杆部件	Hand Lifter Link Asm.
9	SG101-04-19-00	抬压脚前杠杆组件	Hand Lifter Link
10	SG24-05000000-08	开口挡圈	Snap Ring
11	SG101-04-28	抬压脚拉杆	Lifting Lever Connecting Rod
12	SG101-04-18	压脚升降板	Lifting Lever
13	SG24-05000000-08	开口挡圈	Snap Ring
14	SG101-04-32	抬压脚拉杆螺钉	Hinge Screw Sm3/16x32
15	SG101-04-31	后杠杆轴位螺钉	Hinge Screw Sm15/64x 28
16	SG101-04-30	抬压脚后杠杆	Lifting Lever Link
17	SG101-04-33	抬压脚顶杆	Connecting Rod Vertical
18	SG24-05000000-08	开口挡圈	E-ring 5
19	SG11-60111020-01	螺钉	Screw Sm11/64x40 L=10
20	SG109-04-18	压板B	Wire Plate B
21	SG11-40120625-01	上电线压板固定螺钉	Screw Sm3/16x28 L=9
22	SG109-04-20-00	上电线压板组件	Wire Holder Bracket Upper
23	SG1230-04-44	制动器组件	Arrester Asm.
24	SG101-04-25	松线顶板螺纹销	Tension Release Shaft
25	SG101-04-24	松线顶板	Tension Release Plate
26	SG101-04-21	螺纹销密封垫圈	Washer Plate
27	SG24-05000000-08	开口挡圈E5	E-ring 5
28	SG1255-04-01	松线顶板复位簧	Thread Tension Release Wire Spring
29	SG101-04-34	压杆防油套	Rubber Bushing
30	SG101-03-30	松线辅钉	Tension Release Supporting Pin
31	SG24-04000000-08	松线辅钉开口挡圈E4	E-ring 4
32	SG101-03-32	松线辅钉垫片	Washer Plate
33	SG101-03-33	松线辅钉弹簧	Tension Release Supporting Pin Spring
34	SG11-40150925-01	下电线压板固定螺钉	Screw Sm15/64x28 L=9
35	SG1230-04-42	下电线压板	Cord Holder
36	SG11-60090820-01	压紧板固定螺钉	Screw Sm9/64x40 L=8
37	SG1230-04-18	下电线压紧板	Wire Holder
38	SG13-60623020-01	松线钢丝螺母	Nut Sm3/16x32
39	SG1281-05-16A-01	调压螺钉	Presser Regulator Screw
40	SG1281-05-16A-02	调压螺母	Presser Regulator Nut
41	SG101-04-03	调压导杆	Presser Guide Bar
42	SG101-04-04	调压簧	Presser Spring
43	SG101-04-06	压杆导架	Presser Bar Guide Bracket
44	SG1281-01-26	压杆	Presser Bar
45	SG1255-04-02	缓线调节钩 压压品加烟缸	Presser Bar Thread Guide
46	SG11-80160810-01	压杆导架螺钉	Screw Sm1/4x40 L=8
47	SG11-40090825-01	缓线调节钩螺钉 E E t t 在	Screw Sm9/64x40 L=8
48	SG101-04-10	压杆衬套	Presser Bar Bushing Lower
49	SG11-60091120-05	活压脚螺钉	Presser Foot Screw Sm9/64x40 L=11
50	0281 220024	活压脚组件	Presser Foot Asm.

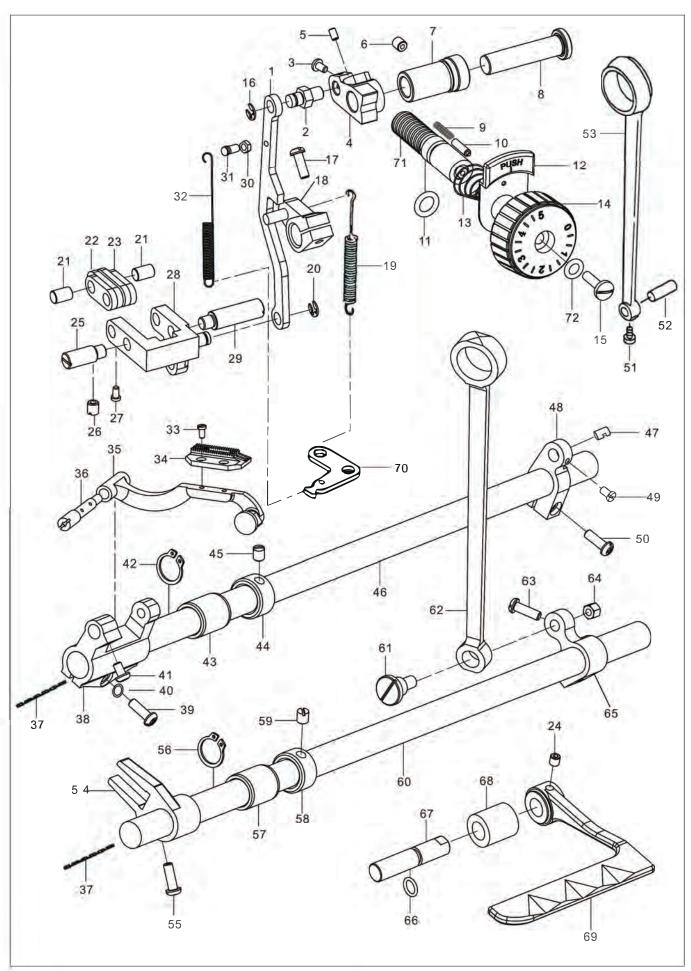






序号 NO.	图号 REF NO.	名称	DESCRIPTION
1	SG1281-01-43	倒送料连杆	Feed Regulator Connecting Rod
2	SG1255-05-09	倒送料连杆销	Feed Regulator Pin
3	SG11-60090620-01	送料连杆销螺钉	Screw Sm9/64x40 L=6
4	SG1255-05-05	送料调节座	Feed Regulator
5	SG12-80500612-01	针距座固定螺钉	Bolt Socket M5 L=6
6	SG11-80150612-01	针距座锁紧套螺钉	Screw Sm15/64x40 L=6
7	SG1255-05-07	送料调节器轴套	Feed Regulator Bushing
8	SG1255-05-06	针距座销	Hinge Pin For Regulator
9	SG124-08-07	送料距锁合簧	Spring
10	SG1273-15-24	针距调节旋钮限位销	Pin
11	SG31-09428000-09	送料调节螺柱0形圈	Rubber Ring
12	SG1273-15-17A	锁针距挡板	Needle Gauge Lock Guide
13	SG120-03-30	送料调节旋钮弹簧	Spring
14	SG1281-05-17A	送料距旋钮	Stitch Length Dial
15	SG11-70121820-01	送料距旋钮螺钉	Screw Sm3/16x28 L=18
16	SG24-05000000-09	开口挡圈	E-ring5
17	SG11-60121420-01	到送料曲柄螺钉 倒送料曲柄螺钉	Feed Reverse Arm Screw Sm3/16x28 L=14
18	SG1273-05-02	到送料曲柄组件	Feed Reverse Asm.
19	SG101-07-22	倒送料拉簧	Feed Reverse Spring
20	SG24-05000000-09	开口挡圈	E-ring5
21	SG101-06-11	短摆动座连接销	Walking Foot Pin
22	SG101-06-09	送料长摆动板	Walking Foot Link
23	SG101-06-10	送料短摆动板	Connecting Link
24	SG11-80150612-01	倒送料扳手紧固螺钉	Screw Sm15/64×28 L=6
25	SG101-06-14	送料摆动板座左销	Adjusting Link Fulcrum Shaft
26	SG11-80151150-01	左右销固定螺钉螺钉	Screw Sm15/64 L=11
27	SG11-00090620-01	连接销螺钉	Screw Sm9/64x40 L=6
28	SG109-05-27	送料摆动板座	Feed Adjusting Link Asm.
29	SG1230-06-16	送料摆动板座右销	Adjusting Link Fulcrum Shaft
30	SG13-60113020-01	螺母	Nut
31	SG134-05-28	※ ¬	Spring Connecting Pin
32	SG1281-05-45	倒送料弹簧	Feed Reverse Sping
33	SG11-60080620-01	送料牙螺钉	Screw Sm1/8x44 L=6
34	SG109-05-33A	送料牙	Feed Dog
35	SG1273-15-01	牙架组件	Feed Bar Asm.
36	SG101-06-32	牙架销	Feed Bar Shaft
37	SG43-10250000-00	油线Φ2.5×1000mm	Oil Wick
38	SG101-06-28	牙架座	Feed Rocker Asm.
39	SG11-60121420-01	牙架座螺钉	Screw Sm11/64x40 L=11
40	SG21-04808080-01	垫圈	Washer
41	SG11-40110725-01	牙架销紧固螺钉	Screw Sm11/64×40 L=7
42	SG25-15000000-08	送料轴轴用挡圈	Retaining Ring
43	SG101-06-26	送料轴轴套	Feed Rocker Shaft Bushing
44	SG101-02-06	送料轴挡圈	Feed Rocker Shaft Collar
45	SG11-80160610-01	送料轴挡圈螺钉	Screw Sm1/4x40 L=6
46	SG1255-06-22	送料轴	Feed Rocker Shaft
47	SG101-06-19	送料曲柄销	Feed Rocker Crank Pin
48	SG101-06-18	送料曲柄	Feed Rocker Shaft Crank
49	SG11-00090620-01	送料曲柄销螺钉	Screw Sm9/64x40 L=6
50	SG11-40121425-01	送料曲柄螺钉	Screw Sm3/16x28 L=14
51	SG11-00090620-01	送料连杆销螺钉	Screw Sm9/64x40 L=6
52	SG101-06-07	送料连杆销	Walking Foot Pin
53	SG101-06-06	送料连杆	Rocker Shaft Connecting Rod
			2



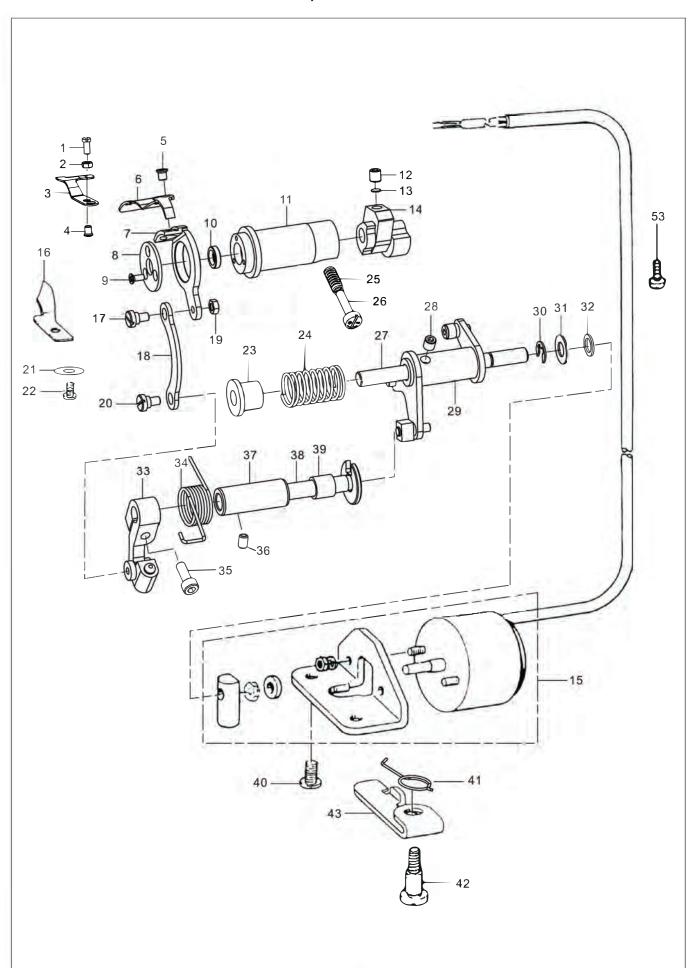




序号	图号 REF NO.	名称	DESCRIPTION
NO. 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72	SG101-06-42 SG11-60111120-01 SG25-15000000-08 SG101-06-26 SG101-02-06 SG11-80160610-01 SG101-06-44 SG101-06-50 SG101-06-49 SG11-40121225-01 SG13-60184020-01 SG101-06-47 SG31-08018000-09 SG1255-05-04 SG1255-05-03 SG1281-01-09 SG101-07-23 SG1281-01-11 SG21-05310100-02	在	Driving Shaft Crank Asm, front Screw Sm11/64×40 L=10 Retaining Ring Feed Rocker Shaft Bushing Thrust Collar Asm D=14.72 W=12 Screw Sm1/4×40 L=6 Feed Driving Shaft Hinge Screw Connecting Rod Screw Sm3/16×28 L=12 Hinge Nut Sm9/32×28 Feed Rocker Crank Rubber Ring Feed Reverse Bushing Reverse Feed Control Lever Feed Spring Hook Feed regulator screw Washer



6. 切线装置部件 Thread trimmer components



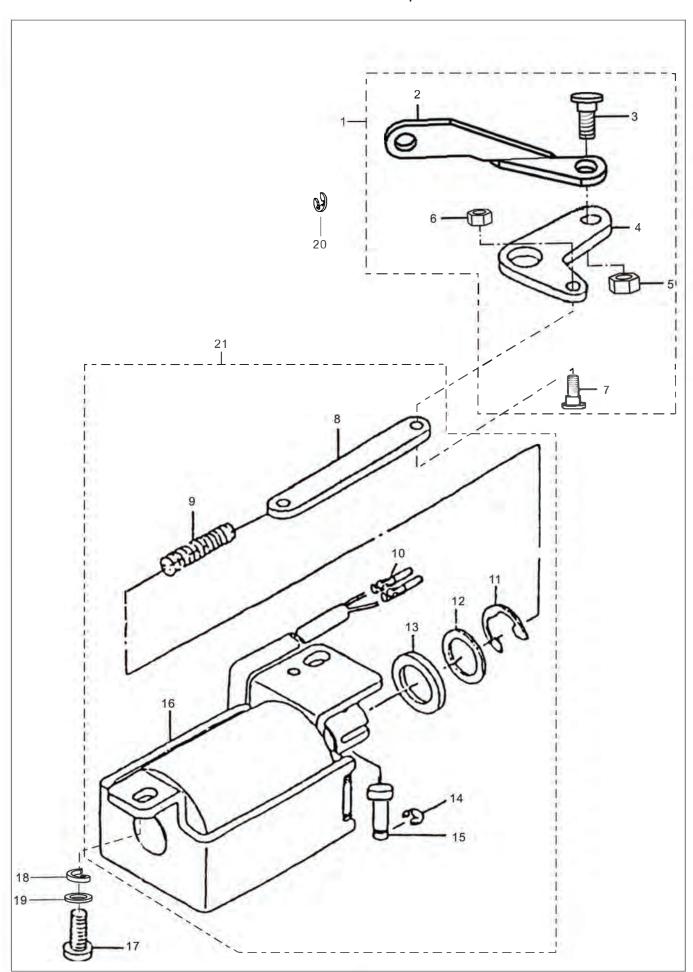


6. 切线装置部件 Thread trimmer components

序号 NO.	图号 REF NO.	名称	DESCRIPTION
1	SG11-00580720-02	定刀调节螺钉	Screw Sm1/8x40 L=7
2	SG13-60582420-02	定刀压力调节螺母	Nut Sm1/8x40
3	SG158-09-04	固定刀	Fixed Knife
4	SG11-20090520-01	固定刀螺钉	Screw Sm9/64×40 L=5
5	SG11-10110622-01	动刀螺钉	Screw Sm11/64x40 L=6
6	SG158-09-13	动刀	Moving Knife
7	SG1255-06-01-02	动刀架	Knife Bracket
8	SG1255-06-01-03	动刀架压板	Knife Bracket Presser
9	SG12-10300821-01	动刀架压板紧固螺钉	Screw M3 L=8
10	SG32-07430120-09	骨架油封	Oil Seal
11	SG1255-06-01-01	下轴前套	Hook Driving Shaft Bushing Asm.
12	SG11-80161012-01	剪线凸轮固定螺钉	Set Screw1/4×40 L=10
13	SG1230-09-40	剪线凸轮螺钉垫片	Washer
14	SG158-09-01	切线凸轮	Thread Shear Cam
15	SG1281-01-27	剪线电磁铁组件	Solenoid Unit
16	SG1230-09-06	分线器	Thread Partition
17	SG135-06-22	刀轴连杆螺钉	Screw
18	SG1230-09-15	刀轴连杆	Knife Shaft Connecting Rod
19	SG13-60113020-01	刀轴连杆螺母	Nut Sm11/64x40
20	SG135-06-22	刀轴连杆螺钉	Screw
21	SG21-04308090-01	垫圈	Washer
22	SG11-40090625-01	分线器固定螺钉	Screw Sm9/64x40 L=6
23	SG158-09-31	扭簧端盖	Spring Cover
24	SG158-09-32	切线凸轮复位簧	Spring
25	SG113-06-22	旋梭油量调节簧	Oil Adjusting Spring
26	SG113-06-21	旋梭油量调节螺钉	Oil Adjusting Screw
27	SG158-09-30	切刀驱动轴	Thread Shear Shaft
28	SG11-80160612-01	剪线驱动轴固定螺钉	Screw Sm1/4×40 L=10
29	SG158-09-26-00	切线凸轮曲柄大组件	Thread Shear Cam Rock Arm Asm.
30	SG24-06000000-08	挡圈E6	Retaining Ring ,e6
31	SG21-08210162-03	剪线电磁铁垫片	Washer
32	SG101-04-21	电磁铁缓冲垫	Magnetic Plug Cushion Mat
33	SG1230-09-18-00	切刀驱动曲柄组件	Thread Shear Rock Arm
34	SG158-09-21	 切刀驱动曲柄弹簧	Spring
35	SG11-60621422-01	驱动曲柄螺钉	Screw Sm3/16×32 L=14
36	SG11-80120712-01	剪线驱动轴套螺钉	Screw Sm3/16x28 L=7
37	SG158-09-24	切线驱动轴套	Thread Shear Shaft Bush
38	SG158-09-22	切刀驱动曲柄轴	Thread Shear Rock Arm Shaft
39	SG158-09-23	驱动曲柄轴短套	Short Bush
40	SG11-40150925-01	剪线电磁铁固定螺钉	Screw Sm15/64×28 L=9
41	SG158-11-11	松线复位弹簧	Spring
42	SG158-09-42	松线座螺钉	Screw
43	SG158-11-01	松线座	Thread Loose Seat
10	30130 11 01	14 3/15	riffead Loose Geat



7.自动倒送料部件 Automatic Reverse Feed Components



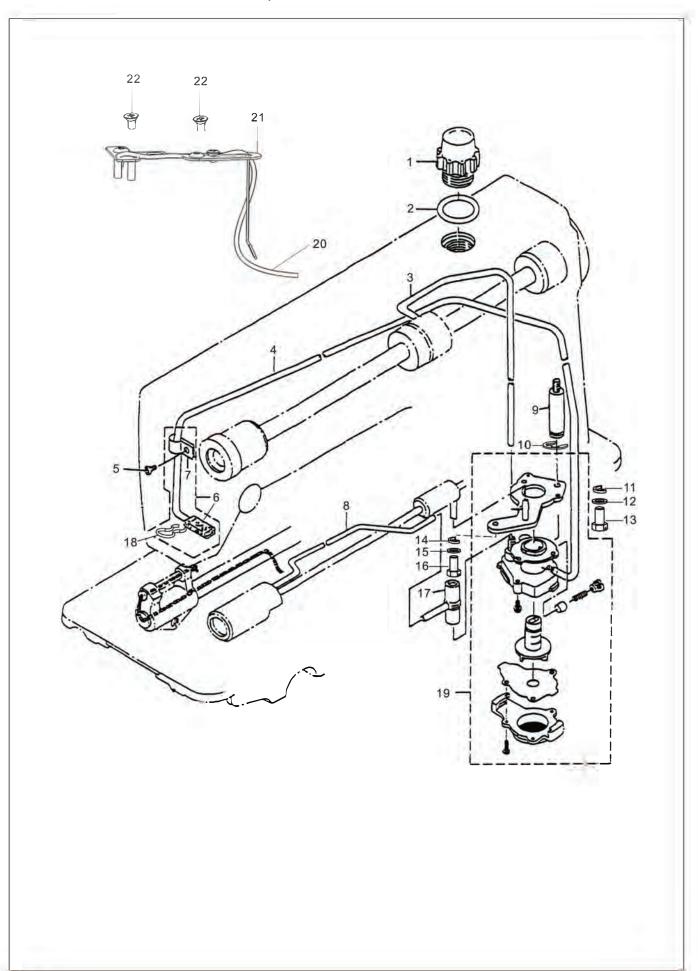


7.自动倒送料部件 Automatic Reverse Feed Components

1 SG109-07-15-00 倒送料连接杆组件 Reverse Feed Connecting Rod Asm.	序号 NO.	图号 REF NO.	名称	DESCRIPTION
1	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	SG109-07-15-01 SG109-07-15-03 SG109-07-15-02 SG13-60157020-01 SG13-60113020-01 SG109-07-15-04 SG109-07-19 SG109-07-29 SG24-12000000-08 SG21-16030240-02 SG109-07-22 SG24-04000000-08 SG109-07-30 SG1281-01-28-01 SG11-60151522-01 SG21-06115130-01 SG22-06000000-08 SG24-05000000-09	倒连连六六连倒柱联开垫橡开倒倒倒倒倒倒大大臂螺螺臂料簧插挡 垫挡电电电电光性 螺臂 舞牙 圈 圈 圈 微磁磁磁磁磁磁磁磁磁磁磁磁磁磁磁磁磁磁磁磁磁磁磁磁磁 四十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二	Reverse Feed Connecting Rod Connecting Rod Axial Screw Connecting Arm Nut Sm15/64x28 Nut Sm11/64x40 The Connecting Arm Axial Screw Feed Reverse Connecting Cover Plunger Spring Pin Connect E-ring 12 Washer Rubber Washer E-ring 4 Pin For Plunger Rod Reverse Feed Solenoid Asm. Screw Sm15/64x28 L=9 Reverse Feed Solenoid Screw Gasket Reverse Feed Solenoid Spring Washer E-ring 5



8.润滑部件 Oil Lubrication Components



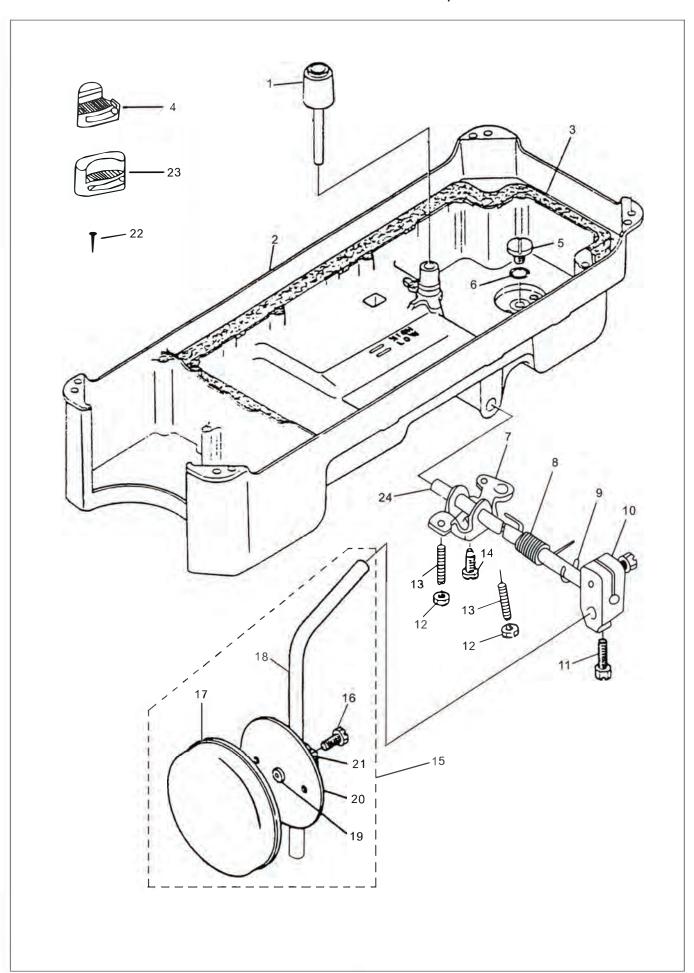


8.润滑部件 Oil Lubrication Components

NO. 1 SG109-09-01 油窗 Oil Sight W	
2 SG31-20024000-09 油窗0形圈 Rubber Rin 3 SG1255-08-19 上轴供油管 Main Shaft 4 SG42-05003000-00A 回油管 Oil Return 5 SG11-40120625-01 回油管夹螺钉 Screw Sm3 6 SG120-07-07 机头回油毡 Oil Return 7 SG101-08-28 回油管夹 Oil Return 8 SG1230-08-20 旋梭轴供油管 Oil Tube 9 SG109-09-25 油泵连接螺柱 Oil Pump S 10 SG24-09000000-08 开口挡圈E9 Spring Was 12 SG21-04608080-01 螺柱连接螺钉 Washer Fo 13 SG11-90111220-01 螺柱连接螺钉 Screw Sm1 14 SG22-060000000-08 弹簧垫圈 Spring Was 15 SG21-06210101-01 油泵安装螺钉垫圈 Washer Fo 16 SG11-90151420-01 油泵安装螺钉 Screw Sm1 17 SG101-08-18 供油管接头 Rubber Joi 18 SG101-08-33 回油管固定夹 Oil Feet Pr 19 SG43-10250000-00 油线 Oil Wick 20 SG43-10250000-00 油线 Oil Braid Fi	ng t Oil Tube Tube 3/16x28 L=6 Tube Plate Asm. Tube Holder Support M8 E9 sher or Stud Connecting Screw 11/64x40 L=12 sher or Oil Pump Screw 15/64x28 L=11 int



9.油盘、膝抬压脚部件 Oil Reservoir & Knee Lifter Components



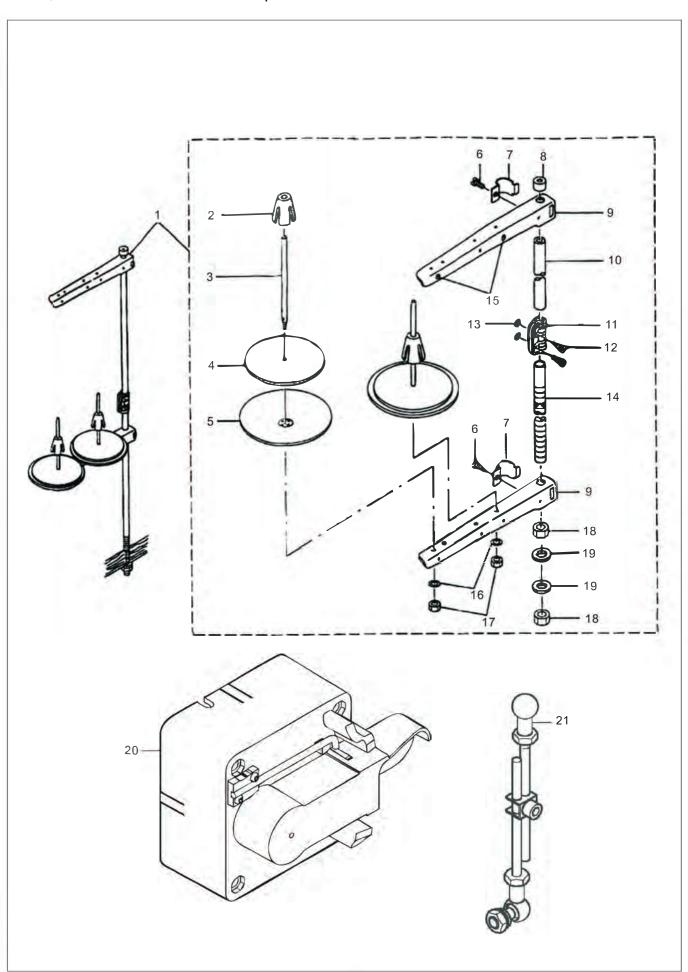


9.油盘、膝抬压脚部件 Oil Reservoir & Knee Lifter Components

序号 NO. 图号 REF NO.	名称	DESCRIPTION
1	抬油盘 抽盘 抽盘 拉克 大型螺 大型螺 大型螺 大型螺 大型 大型 大型 大型 大型 大型 大型 大型 大型 大型	Knee Press Lifter Rod Oil Reservoir Oil Reservoir Gasket Rubber Cushion(small) Screw Sm5/16x24 L=7 Rubber Ring Connecting Rod Vertical Spring E-ring 10 Knee Press Rod Bearing Bracket Asm Screw M8x14 Nut M6 Screw M6 L=30 Screw M6 L=16 Knee Lifter Plate Rod Asm Screw Sm15/64x28 L=15 Knee Press Plate Asm. Knee Press Plate Rod Knee Press Plate Rubber Knee Press Plate Holder Nail Rubber Cushion(big) Knee Press Rod



10.线架部件 Thread Stand Components

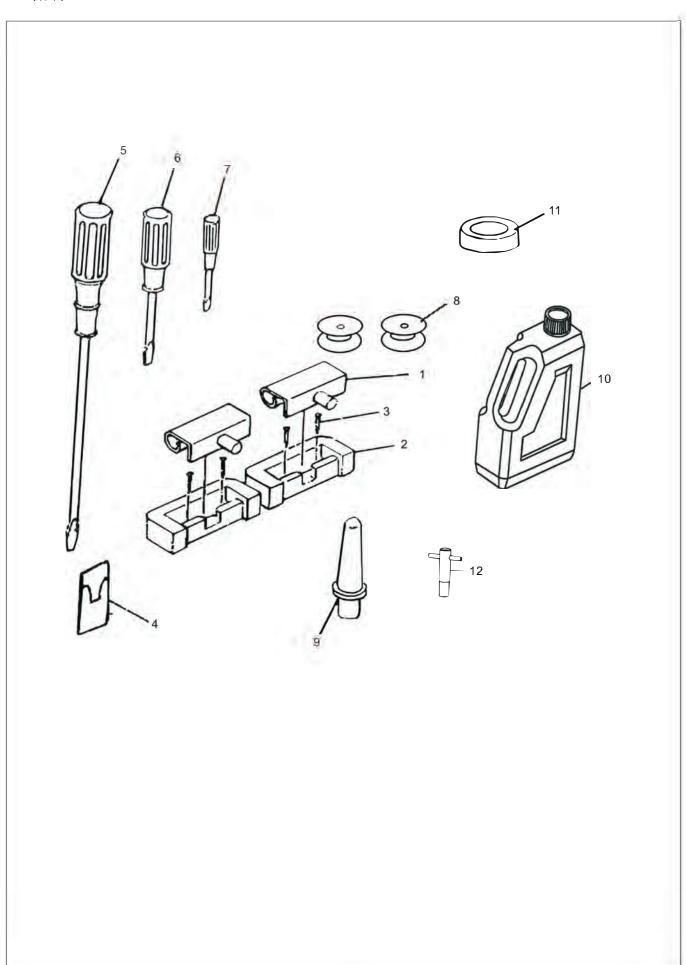




10.线架部件 Thread Stand Components

Sci01-11-01 技術型 大小型 大	序号 NO.	图号 REF NO.	名称	DESCRIPTION
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	\$6279-12-00-22 \$6279-12-00-23 \$6279-12-00-24 \$6279-12-00-25 \$6279-12-00-04 \$6279-12-00-03 \$6279-12-00-01 \$6279-12-00-02 \$6279-12-00-15 \$6279-12-00-16 \$6279-12-00-14 \$6279-12-00-19 \$6279-12-00-19 \$6279-12-00-20 \$6279-12-00-21 \$6279-12-00-21 \$6279-12-00-21 \$6279-12-00-21 \$6279-12-00-21	线线线线螺线上短线直螺螺线引弹螺螺防脚盘盘盘圈钉臂直固架管钉帽架线性帽帽震路上接 电 圖 圖 圖 響	Spool Retainer Spool Pin Spool Rest Cushion Spool Rest Screw M6 L=18 Thread Guide Arm Joint Spool Rest Rod Rubber Cap Spool Rest Rod,upper Spool Rest Rod Joint Screw M5 L=16 Nut M5 Spool Rest Rod,lower Thread Guide Spring Washer Nut M5 Nut M16x1.5 Washer 16.1x30x2.6 Proximity switch





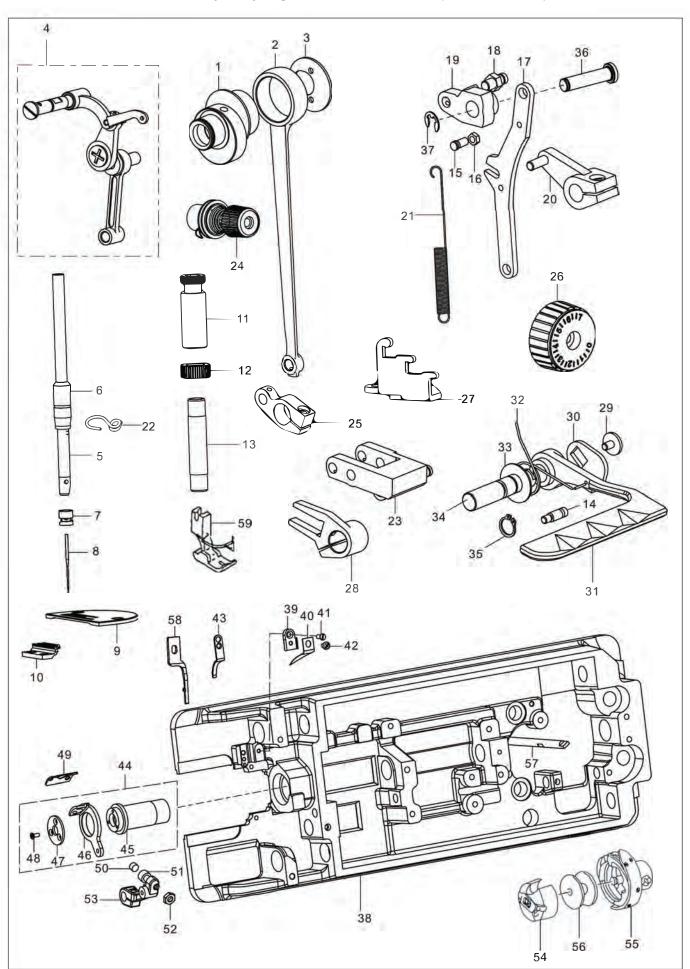


11.附件 Accessories

序号 NO.	图号 REF NO.	名称	DESCRIPTION
序号NO. 1 2 3 4 4 5 6 7 8 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	图号 REF NO. SG101-12-01 SG120-09-02 SG101-12-03 SG101-03-13 SG124-04-24 SG101-03-13II SG101-12-15 SG101-12-16 SG101-12-17 SG402-04-04 SG101-12-19 SG101-12-21 SG101-09-22 SG1277-14-02	名称 机头铰链 整整 机头钉 DBX1 14# 机针 134 Nm90 机针 134 Nm110 螺 经 丝 心 人 大) 螺 经 也 心 大 在 磁 板 手	DESCRIPTION Head Connecting Hook Head Connecting Hook Socket Head Connecting Hook Nail Needles DBx1 14#(261-140342-A) Needles 134 Nm90(261-140342) Needles 134 Nm110(261-160362) Screw Driver (I) Screw Driver (m) Screw Driver (s) Bobbin Head Pole Oil Bottle With Oil Oil Reservoir Magnet Spanner



12.厚料 大旋梭部件 Heavy duty big hook components (261-160362)



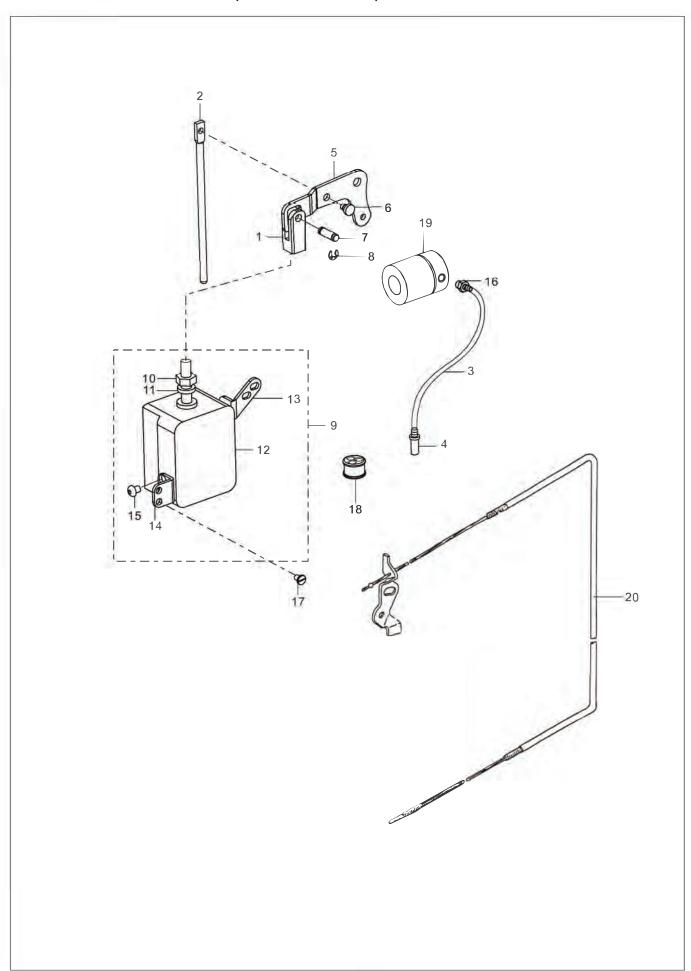


12.厚料大旋梭部件 Heavy duty big hook components (261-160362)

序号 NO.	图号 REF NO.	名称	DESCRIPTION
1	SG101-06-02XH	送料偏心轮	Feed Drive Eccentric Cam
2	SG101-06-06XH	送料连杆	Rocket Shaft Connecting Rod
3	SG101-06-04XH	送料偏心轮盖板	Thrust Collar
4	SG1281-01-32	挑线杆大组件	Thread Take-up Lever Asm.
5	SG1281-05-32H	针杆	Needle Bar
6	SG101-03-08XH	针杆下轴套	Needle Bar Bushing Lower
7	SG1277-03-02H	针杆过线环	Needle Bar Thread Guide
8	SG101-03-13H	机针 134 Nm110	Needle 134 Nm110
9	SG101-06-36H	针板 B20	Needle Plate B20
10	SG120-04-04	牙齿	Feed Dog
11	SG101-04-01XH	调压螺钉	Presser Regular Screw
12	SG101-04-02XH	调压螺母	Presser Regular Nut
13	SG101-04-10XH	压杆衬套	Presser Bar Bushing Lower
14	SG1281-01-41	倒缝扳手复位弹簧固定销	Pin
15	SG1281-01-22	弹簧连接销	Spring Connecting Pin
16	SG13-60113020-01	螺母	Hinge Screw
17	SG1273-05-06	倒送料连杆	Feed Regulator Connecting Rod
18	SG101-07-10A	倒送料连杆销	Feed Regulator Pin
19	SG1273-15-04	送料调节器	Feed Regulator
20	SG1273-15-05	倒送料曲柄组件	Feed Reverse Asm.
21	SG1273-15-03	倒送料弹簧	Feed Reverse Spring
22	SG1281-05-20H	针杆下套线钩	Needle Bar Thread Guide
23	SG1273-15-07	送料摆动板座组件	Walking Foot Adjusting Link Asm.
24	SG1281-05-12AH	夹线器组件	Tension Asm.
25	SG101-06-18XH	送料曲柄	Feed Rocker Shaft Crank
26	SG1281-05-17H	送料距旋钮	Feeding From The Knob
27	SG101-07-23XH	弹簧固定板	Spring Plate
28	SG1273-15-02	抬牙叉形曲柄	Driving Shaft Crank Asm, front
29	SG423-06-45	倒送料轴端螺钉	Feed Reverse Screw
30	SG1273-15-08	倒缝扳手板	Reverse Feed Control Lever Link
31	SG1281-01-09A	倒缝扳手	Reverse Feed Control Lever
32	SG1273-15-12	倒缝扳手支撑弹簧	Reverse Feed Control Lever Support
33	SG21-12110262-03	垫 圈	Ring
34	SG1273-15-09	倒送料轴 3.4.4.4	Washer
35	SG25-12000000-08	轴用弹性挡圈	Feed Reverse Shaft
36	SG1273-15-25	针距座销	Hinge Pin For Regulator
37	SG24-09000000-09	针距座销卡簧	E-ring 9
38	SG1273-16-01	底板	Baseboard
39	SG1273-16-04	分线器垫片	Distributor Spacer
40	SG1300-08-05	分线器	Distributor
41	SG11-10090920-01	分线器垫片螺钉	Distributor Spacer Screw
42	SG11-40090525-01	分线器螺钉	Thread Partition Screw
43	SG1273-16-06	定刀	Counter Knife
44	SG1255-06-01B	动刀架前轴套组件	Motorial Knife Bracket Front Shaft Sleeve
45	SG1255-06-01-01	下轴前套	Hook Driving Shaft Bushing Asm.
46	SG1273-16-03	动刀架	Motorial Knife Bracket
47	SG1255-06-01-03	动刀架压板	Motorial Knife Bracket Presser
48	SG12-10300821-01	动刀架压板紧固螺钉	Screw M3 L=8
49	SG1273-16-07	动刀	Motorial Knife
50	SG1277-08-19	凸轮左曲柄缓冲垫	Cam Left Crank Cushion
51	SG1277-08-18	凸轮左曲柄缓冲垫螺钉	Cam Left Crank Cushion Screw
52	SG13-60153020-01	缓冲垫螺钉锁紧螺母	Cushion Nut
53	SG1273-16-02	切刀驱动曲柄	Thread Shear Rock Arm
54	SG1222-05-02	梭芯套	Bobbin Case
55	SG1281-05-27	旋梭	Hook
56	SG1222-05-03	梭芯	Bobbin
	SG101-05-24B	仮心 竖轴	Vertical shaft
57 L			vornoal silait
57 58	SG1281-05-48	旋梭定位钩	Positioning finger



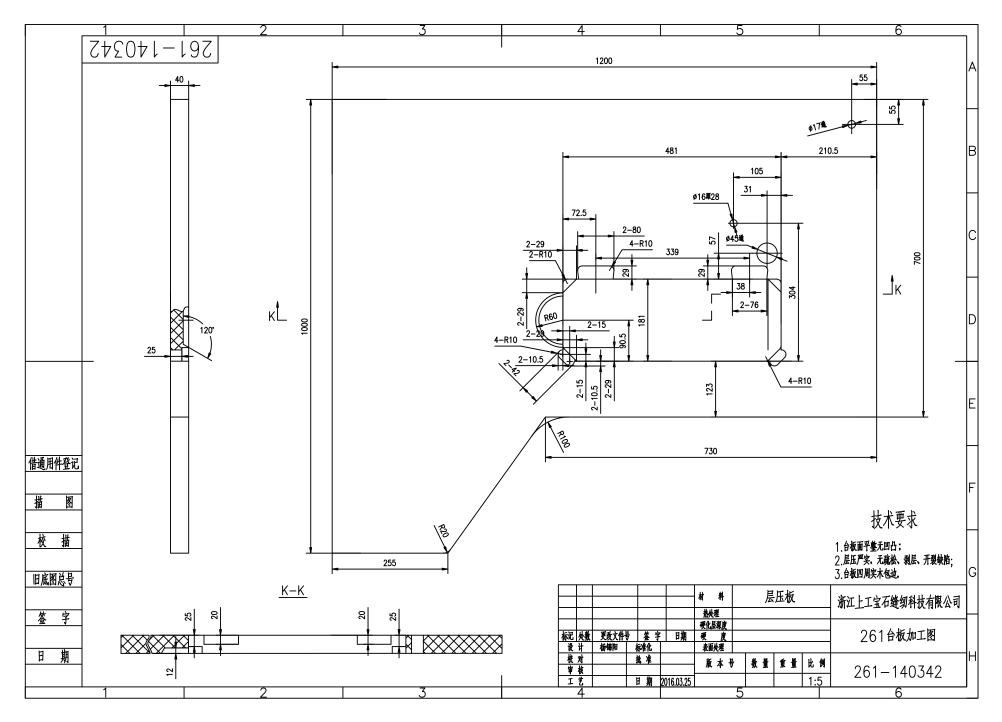
13.内 置抬 压脚部件 Built-in presser foot Components





13.内置抬压脚部件 Built-in presser foot Components

序号 NO.	图号 REF NO.	名称	DESCRIPTION
	图号 REF NO. SG1281-02-06 SG1211-04-08 SG42-05003000-00A SG1211-07-04 SG1281-02-07 SG1211-04-07 SG1281-02-08 SG24-05000000-08 SG1281-02-02 SG14-60805010-01 SG1281-02-02-01 SG1281-02-02-04 SG1281-02-02-06 SG12-40500825-01 SG423-12-36 SG11-30120920-02 SG1281-02-03 SG1211-02-04 SG1281-02-10	名称	Presser foot solenoid pillar Connecting rod vertical Oil tube Rubber joint(down) Lifting lever ring Lifting lever ring screw Presser foot solenoid pin Snap ring Presser foot solenoid ASM. Presser foot solenoid nut Magnetic plug cushion mat Presser foot solenoid ASM. Solenoid right bracket Solenoid left bracket Presser foot solenoid bracket screw Rubber joint(upper) Presser foot solenoid screw Tripple-hole rubber stopper Main shaft bushing(middle) Arrester Asm.



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