

使用说明

Operation Instruction

202Ft-TD4

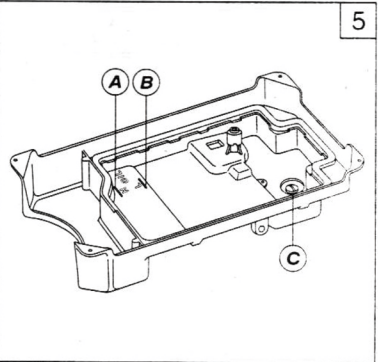
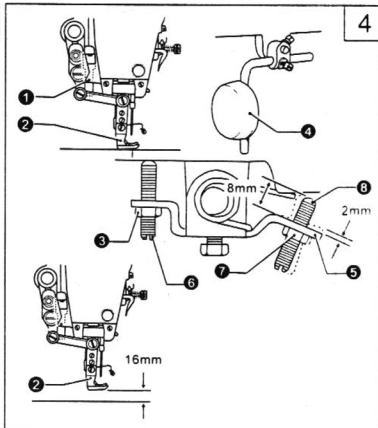
电脑大旋梭平缝机(一体电控一拖二)

6. 调整膝控装置(图4) Adjusting knee lifter(Fig.4)

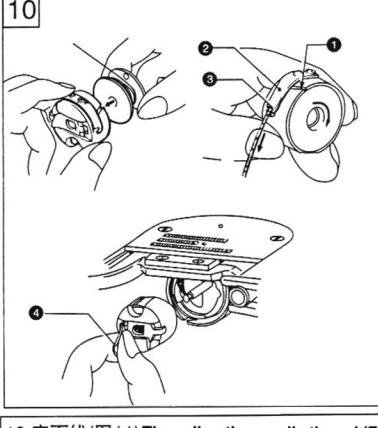
1. 转动压脚提升扳手①将压脚②完全放下。
 2. 松开螺母③。
 3. 拧紧螺钉⑤调节膝控限位架, 使之转动2mm。
 4. 拧紧螺母③。
 5. 松开螺母⑦。
 6. 拧动螺钉⑥, 使该螺钉的末端至膝控限位架之间的长度达到8mm。
 7. 通过转动螺钉⑥并操作膝控碰块, 可以使压脚底面至针板的距离在16mm之内得到调整。
 8. 调节完成后, 拧紧螺母③。
1. Lower the presser foot ② by turning the presser foot bar lifter ①.
 2. Loosen the nut ③.
 3. Turn the screw ⑤ to adjust the bracket ⑤ to 2mm play.
 4. Securely tighten the nut ③.
 5. Loosen the nut ⑦.
 6. Turn the screw ⑥ until the distance between the end of the screw and bracket is approximately 8mm.
 7. Turn the adjusting screw ⑥ to adjust, so that the presser foot is at the desired position within a distance of 16mm above the needle plate when the knee lifter plate ④ is fully pressed.
 8. After adjustment, tighten the nut ⑦.

7. 润滑(图5) Lubrication(Fig.5)

1. 油量, 油量必须按油盘内标记加注, 图中标记(A)是油量最高位, (B)是油量最低位。注意油量不得低于标记(B)否则缝纫机各部位就会出现进油停止, 造成发热咬死等情况。
 2. 加油, 必须使用18#高速缝纫机油, 运转前油量加至标记(A)。
 3. 换油, 1. 旋下放油螺钉(C), 排净废油。新油。2. 扫清油盘污尘, 旋紧放油螺钉(C), 加注新油。
- Oil amount
Please fill the oil according to the mark indicated on the oil pan. Mark (A) means the highest position. Mark (B) means the lowest position. If the oil amount is lower than the Mark (B), oil will not be pumped and machine will be jammed.
- 2.Fill the oil
Please fill the 18# sewing oil into the oil pan until to the Mark (A)
- 3.Change the oil
1. Uninstall the screw (C), and drain out the used oil
2. Clean the oil pan, and tighten the screw (C), fill the fresh oil again according to the requirement.

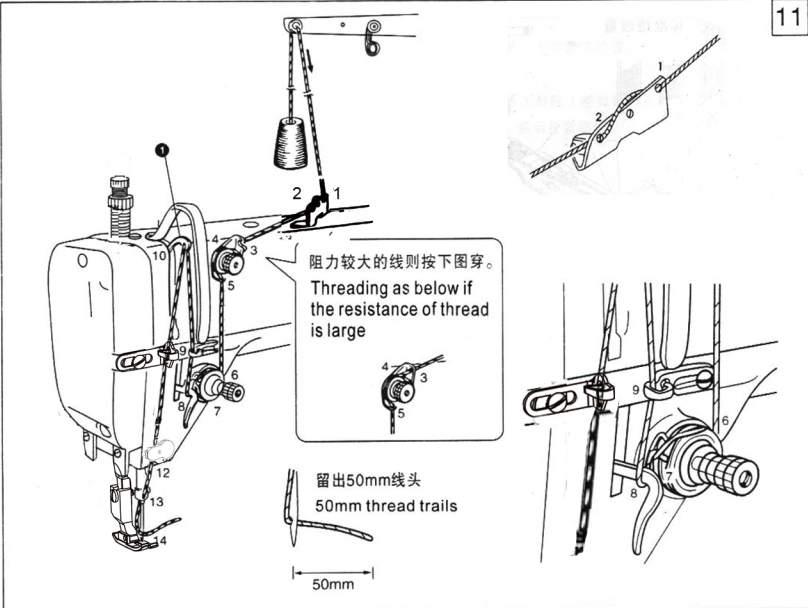


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13. 穿面线(图11) Threading the needle thread (Fig.11)

在穿面线之前请让挑线杆上升至最高位置, 这样便于穿线并可防止开始缝纫时发生面线从针孔中脱落。
Raise the thread take-up lever to its highest position. This will make threading easier and will prevent the thread from coming out at the sewing start.



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1. 机器简介 Brief introduction

202Ft-TD4电脑大旋梭平缝机(一体电控一拖二)平缝机系单直针,采用连杆式送料,连杆挑线机构,旋梭勾线,形成301线迹。
本机采用油泵自动润滑,运转轻滑,噪音低,振动小,特别适用于缝制皮革,帆布,厚重装饰布,织带类织物,如:箱包,汽车座垫,帐篷,沙发等。

电脑控制的剪线、定针数、定针位功能,准确可靠。
This machine is designed with link type feed mechanism and link lever thread take-up mechanism and full lubrication by p.c.m.p. It's suitable for sewing leather, canvas and other heavy weight materials, such as suitcase, car seat, tent, sofa, etc.
It's reliable and accurate on such functions as thread trimming, needle positioning, etc.

2. 主要技术规格 Main specifications

型 号	202Ft-TD4
缝 料	中 厚 料
最高转速	2500 针/分
最大针距	8 mm
针杆行程	37mm
采用机针	DP×5 23#
压脚握 手控	6mm
升高度 膝控	12mm
采用旋梭	自动润滑大旋梭
供电方式	全自动供油
电机功率	750W

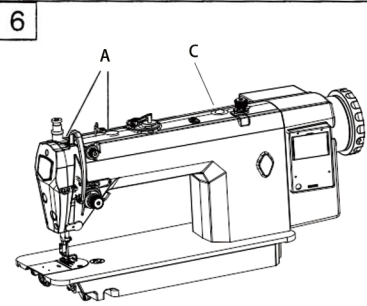
Applications	Medium & heavy weight materials
Max sewing speed	2500 s.p.m
Max stitch length	8mm
Needle bar stroke	37mm
Needle	DP×5 23#
Presser foot	By hand
lifting height	By knee
Hook	Large lubrication hook
Lubrication	Automatic lubrication
Motor power	Servo motor

3. 安装油盘(图1) Installing the oil pan (Fig.1)

1. 将机头防震块②(两个)插入油盘①前方的角内。
 2. 将机头防震块③(两个)插入油盘①后方的角内。
 3. 水平地将油盘④嵌入台板的框孔内。
 4. 将两个机壳铰链套⑤放入台板的凹槽内。
1. Insert the two head cushion ② into the front corners of the oil pan ①.
 2. Insert the two head cushion ③ into the back corners of the oil pan ①.
 3. Place the oil pan ④ into the cutouts of table.
 4. Insert the two rubber cushion ⑤ into the notches of table.

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8. 试车(图6) Test operation(Fig.6)

新机器在开始使用和长期搁置重新使用时, 先卸下机头上部的橡皮塞(A)和面板, 按图示的位置充分加油, 然后装上面板, 抬起压脚进行低速运转1000~1500针/分, 并观察油窗(C)的喷油情况, 润滑油正常后, 仍须保持低速30分钟的运转试验, 以后逐步提高缝纫速度; 经过一个月左右的使用, 使机器充分磨合。然后根据工作的性质再提高到一定缝速。

Carry out the test operation when start up a new sewing machine for the first time, or restart after a long period of non-use.
Remove the rubber cap (A) on the top of the arm and face plate, fully lubricate the parts showed by the arrows.
Install the face plate again, lift the presser foot and operate the machine at a lower speed of 1000-1500spm, and observe the oil running through the oil gauge window.
After one month, then the speed can be increased according to the different sewing operation.

请在图6的A部和箭头部位每周一次左右, 定期进行加油。

Please refuel at part a and arrow in Figure 6 once a week or so.

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14. 调节针距(图12) Adjusting the stitch length (Fig.12)

1. 按下+ 键针距扩大, 按下- 键针距减小, 按下S键保存针距。

1. Press the key + to increase the needle

pitch, press the key - to decrease the

needle pitch, and press the key S to save the needle pitch

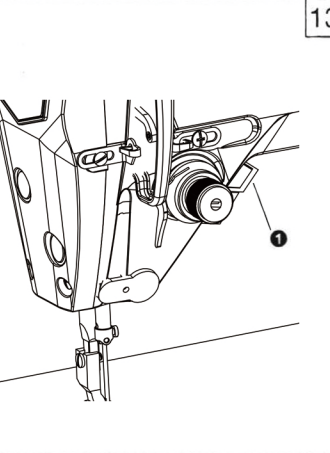
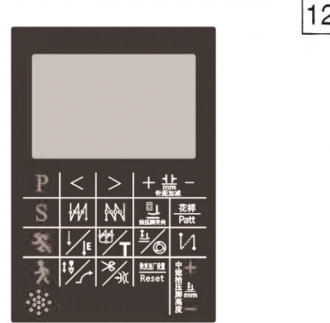
15. 缝绗及倒缝(图13) Sewing and backtacking (Fig.13)

1. 掀下电源开关。
1. Turn the power on;
2. 踩下踏板, 缝制开始。
2. Depress the treadle to start sewing.

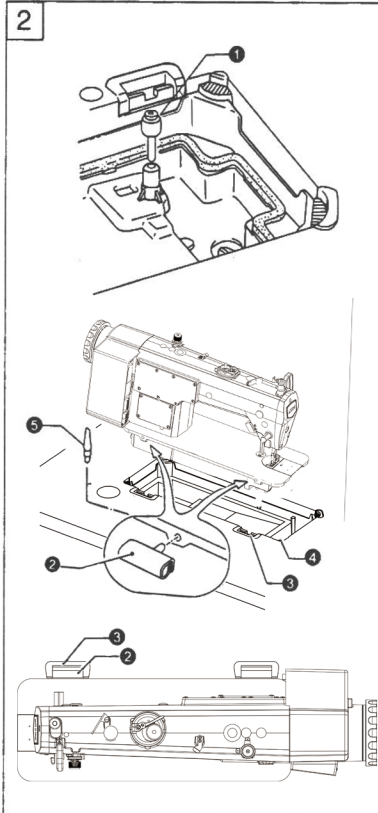
正常缝制过程中, 按下自动倒缝开关①,

便开始反向送料, 放松时, 则恢复正常送料。

When the backtacking button ① is on during sewing, the feed will be reversed.
After release, the feed will recover to normal.



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4. 安装机头(图2) Installing the machine head (Fig.2)

1. 插入膝控提升顶杆①。

1. Insert the knee lifter lifting bar ①.

2. 将两个机壳铰链②插入机头平板的两孔内。
2. Insert the two hinges ② into the holes in the machine bed.

3. 将机头上的铰链勾住台板上的铰链套③。
3. Clamp the two hinges onto the rubber cushions ③ in the work table, and place the machine head onto the head cushions ④ which are on the top of the oil pan corners.

4. 将机头撑杆⑤插入孔中。
4. Tap the rest bar ⑤ into the table hole.

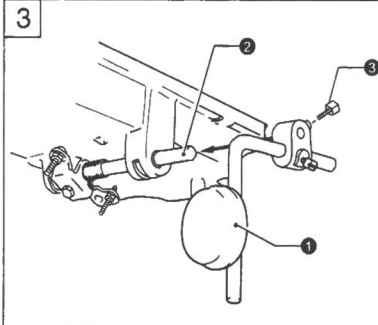
注意: 确保机头撑杆插入孔中。
如撑杆未插到最低位置, 放入机头时, 机头将发生倾斜, 这样比较危险。

NOTE: Tap the rest bar securely into the table hole, if not, the machine head will not be safe when it is tilted back.

5. 安装膝控装置(图3) Installing the knee lifter assy. (Fig.3)

1. 将膝控碰块①, 弯杆及接头插入铰链轴②中, 稍微拧紧螺钉③。

Insert the knee lifter assy. ① into the shaft ② under the oil pan, and slightly tight the screw ③.



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9. 安装机针(图7) Installing the needle (Fig.7)

1. 转动上轮使机针上升至最高位置。
2. 旋松夹针螺钉②。
3. 将机针③直线插入到底(碰到针杆孔的底部为止), 确保长槽向左, 然后拧紧螺钉②。

1. Turn the machine pulley to move the needle bar ① to its highest position;
2. Loosen the screw ②
3. Insert the needle ③ in a straight line as far as it will go, making sure that the long groove on the needle is at the left, and then securely tighten the screw ②.

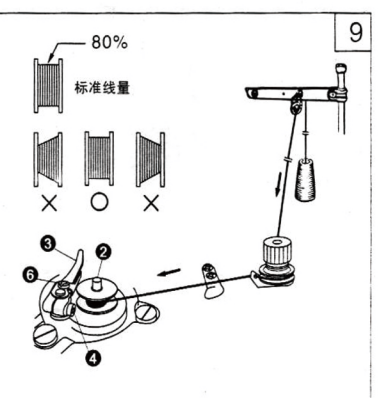
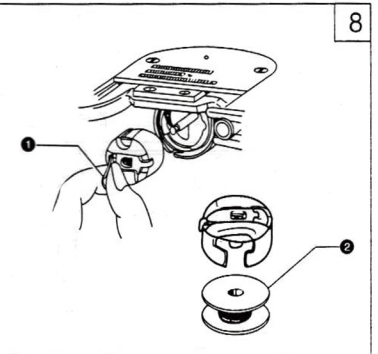
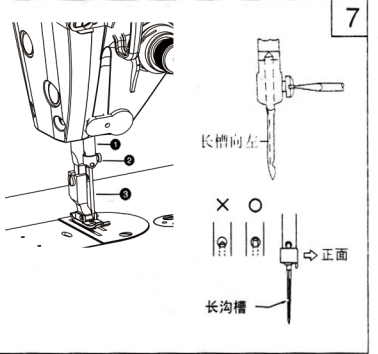
10. 装卸梭芯套(图8) Removing the bobbin case (Fig.8)

1. 装梭芯套的时候, 机针应该在最高位置。先拉开梭门盖①, 之后把梭芯套放入旋梭中。放入时请注意梭芯套上的定位板是否已经和旋梭轴上的定位槽相扣合。
2. 卸梭芯套时, 必须将梭门盖向外扳开并且扳足, 之后捏着扳开的梭门盖徐徐地取下梭芯套, 如此才能便梭芯套钩住梭心, 不让梭心脱落。

1. Turn the machine pulley to lift the needle bar to its highest position. Pull the latch ① of the bobbin case upward and then put the bobbin into the bobbin case, finally insert the complete bobbin case with bobbin into the hook shaft.
2. To remove the bobbin case, pull the latch and draw the bobbin case out of the hook.

11. 绕线梭芯线(图9) Winding the bobbin thread (Fig.9)

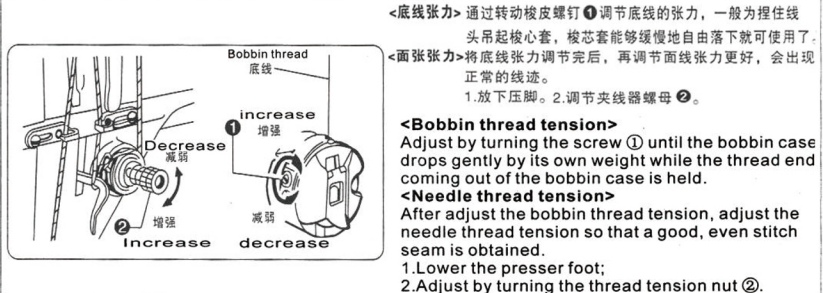
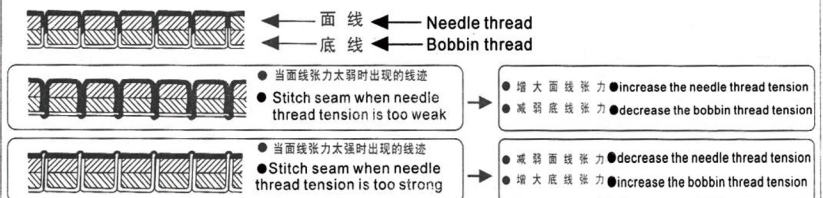
1. 打开电源。
2. 将梭芯套插入绕线轴②的底部。
3. 根据箭头所示的方向, 先将线在梭芯上绕几圈。
4. 扳动绕线摆杆③。
5. 将压脚抬起。
6. 踩下踏板, 便开始自动绕线了。
7. 当梭芯绕满后, 绕线摆杆③便会自动复位。
- * 如果梭芯线排列不齐, 可以通过松开绕线架螺钉④及移动绕线摆杆③的位置进行调节。
- * 线绕量由满线跳板上的满线度调节螺钉⑤加以调节。注意: 适当的绕线量为平行绕线至梭心外径的80%。
1. Turn the power on;
2. Place the bobbin ① onto the bobbin winder shaft ②.
3. Wind the thread several circles around the bobbin in the direction indicated by arrow;
4. Push down the bobbin presser arm ③;
5. Lift the presser foot;
6. Depress the treadle, the winding operation will start;
7. Once finished, the bobbin presser arm ③ will recover automatically.
- * If the thread winding is not neat and even, loosen the screw ④ to adjust the position of bobbin winder base.
- * Turn the screw ⑤ to adjust the bobbin winding amount
- Tighten the screw to increase the winding amount;
- Loosen the screw to decrease the winding amount.
- Note:
The proper winding amount should be around 80% of the bobbin capacity.



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16. 调节线的张力(图14) Adjusting the thread tension (Fig.14)

正常线迹 Normal stitch



17. 调节压脚压力(图15) Adjusting the presser foot pressure (Fig.15)

1. 旋松调压螺钉①。
 2. 转动调压螺钉②, 来调节压脚压力。
 3. 拧紧调压螺钉①。
- <调节压脚的力>
1. 旋松调压螺钉①。
2. 转动调压螺钉②, 来调节压脚压力。
3. 拧紧调压螺钉①。
- <Adjusting the presser foot pressure>
1. Loosen the lock nut ①.
2. Turn the adjusting screw ② to adjust the pressure of presser foot.
3. Tighten the nut ①.

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18.调节剪线后线头的长度 (图16)

18. Adjusting the trailing length after thread trimming(Fig.16)

通过转动小夹线螺母 ① 来调节。

- 在剪线的时候，夹线器松开，面线只有小夹线器提供的张力。
- 标准面线线头的长度为40~70mm。
- 如果小夹线螺母 ① 旋紧，那么面线的线头长度就短。
- 如果小夹线螺母 ① 旋松，那么面线的线头长度就长。

Turn the nut ① to adjust the trailing length
At the time of thread trimming, the thread tension mechanism will release and the needle thread tension is only applied by the thread guide ①.

- The standard trailing length for the needle thread is 40~70mm.
- If increase the thread guide tension, the trailing length will be short; if decrease the thread guide tension, the trailing length will be longer.

19.调节挑线簧 (图17)

19. Adjusting the thread tension spring (Fig. 17)

★挑线簧的标准位置为：当压脚 ② 放下时，大线钩 ③ 的上表面至挑线簧 ④ 5-8mm

- 放下压脚 ②。
- 松开固定螺钉 ⑤。
- 转动夹线组件 ⑥ 调整夹线簧的位置。
- 拧紧固定螺钉 ⑤。
- 挑线簧的标准强度为0.3~0.6N。
- 将面线拉出夹线器 ⑥ 少许，并用手指按住。
- 将面线向下拉，使挑线簧 ④ 与大线钩 ③ 上表面一致，这时就测定挑线簧的强度。
- 用开刀插入夹线螺钉槽 ⑦ 中，通过转动开刀来调节挑线簧 ④ 的力度。

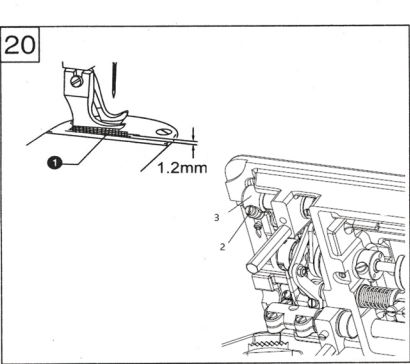
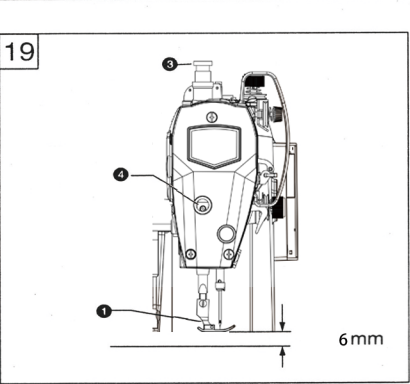
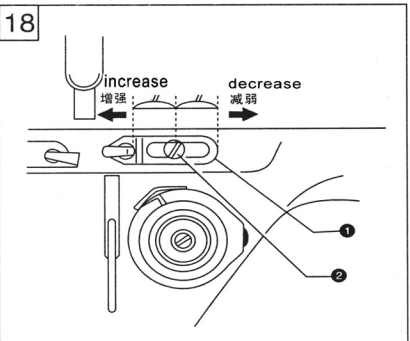
注意：

当使用测力器 ⑧ 请读取对准红线上的那个数字。

- The standard position of the thread tension spring ④ is 5-8mm above the upper surface of the thread guide ③ when the presser foot ② is lowered.
- Lower the presser foot ②;
- Loosen the screw ⑤;
- Turn the thread tension bracket ⑥ to adjust the spring position;
- Tighten the screw ⑤.
- The standard tension of the spring is 0.3-0.6N
- Push the needle thread with your finger until it is slightly higher than the thread tension bracket ⑥ and so that the upper thread is not pulled out;
- Pull the needle thread down until the spring ④ is at the same height with the upper surface of thread guide ③, and then measure the tension of the spring.
- Insert a screwdriver into the slot of the thread tension stud ⑦, and turn the stud to adjust the tension of the spring ④.

Note:
If using a tension gauge ⑧ to measure the tension, take the reading from the scale on the side of the red line.

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23.调节送布牙的角度 (图21)

23. Adjusting the feed dog angle (Fig. 21)

送布牙的标准倾斜角度为：当送布牙高于针板并处于最高位置时，牙架曲柄轴销 ③ 上的凹点标记处于水平位置。

- 转动上轮使送布牙浮出针板并处于最高位置。
- 松开牙架曲柄轴螺钉 ④。
- 根据送布牙的标准角度位置，使凹点标记90°范围内转动调整。

- 送布牙前方降低，可以防止布料起皱（图A）。
- 送布牙前方抬高，可以防止布料跑偏（图B）。

4. 拧紧牙架曲柄轴螺钉 ④。

送布牙角度调整结束后，重新调节送布牙的高度是必要的。

- Turn the machine pulley to lift the feed dog to its highest position;
- Loosen the screw ④;
- Turn the feed bracket shaft in the direction of the arrow within a range of 90° with respect to the standard angle position.

- * In order to prevent puckering, lower the front of the feed dog (Fig. A)
- * In order to keep the materials straight, raise the front of the feed dog (Fig. B)

4. Securely tighten the set screw ④. It's necessary to adjust the feed dog height a gain after this adjustment.

24.调节油泵供油 (图22)

24. Adjusting the oil pump (Fig. 22)

当低速运转时，观察油窗，无喷油现象时，请转动供油调节板 ①，将其盖住油孔 ②。

If the oil is not circled observed from the oil gauge window at a lower sewing speed, turn the oil adjustment plate ① to cover the oil hole ②.

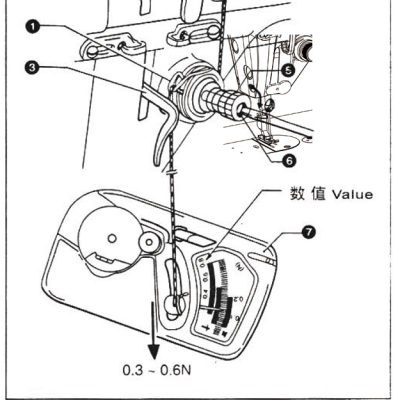
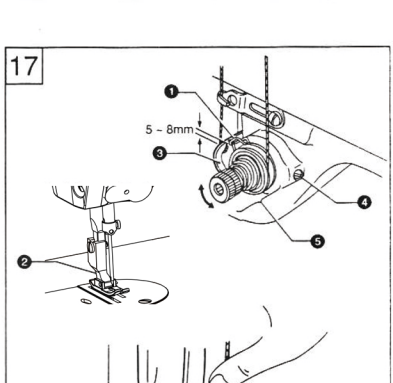
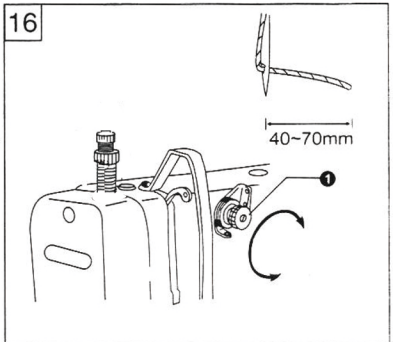
25.调节松线器的挺线 (图23)

25. Adjusting the tension release (Fig. 23)

压脚在提升范围内，夹线器上的夹线板有一个张开期，挺线的时间可进行调节。调节时，先卸下机头后侧面的橡皮盖，用螺丝刀旋松释放提升杠杆（左）螺钉 ①，这时松线凸轮可以左右移动，往右移挺线慢，往左移挺线快。

The opening time of the thread tension discs can be adjusted. Remove the rubber cap on the rear of arm, and turn the screw ①, then the thread release cam ② can be moved left or right. Move the cam rightward, the release time will be slow. Move the cam leftward, the release time will be quick.

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20.调节机壳线勾(图18)

20. Adjusting the upper thread guide(Fig. 18)

机壳线勾 ① 的标准位置是螺钉 ② 处于机壳线勾调节范围的中心位置。

通过松开螺钉 ②，移动机壳线勾来调节位置。

当缝制厚料时，将机壳线勾向左移（挑线力将增大）。

当缝制薄料时，将机壳线勾向右移（挑线力将减弱）。

The standard position of upper thread guide ① is where the screw ② is in the center of the adjustable range of upper thread guide.

To adjust the position, loosen the screw ② and move the thread guide.

If stitch the heavy materials, move the thread guide leftward. (To increase the thread take-up tension)

If stitch the light materials, move the thread guide rightward. (To decrease the thread take-up tension)

21.调节压脚高度(图19)

21. Adjusting the presser foot height (Fig. 19)

当使用压脚扳手提升压脚时，压脚 ① 的标准提升高度为6mm

- 松开压脚调节螺钉 ②，使压紧杆及压脚上升。
- 在压脚下放置8mm厚的量块。
- 松开螺钉 ② 上下调整压脚高度。
- 拧紧螺钉 ②。

The standard height of presser foot ① is 6 mm when it is lifted by hand.

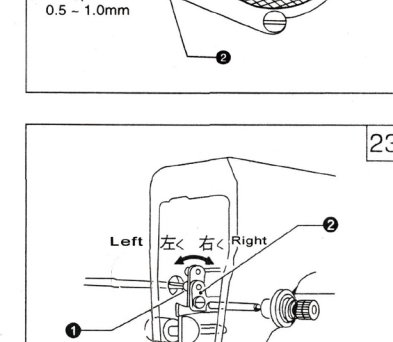
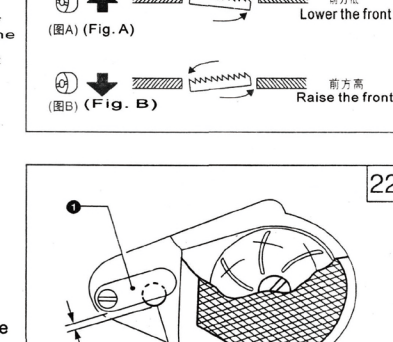
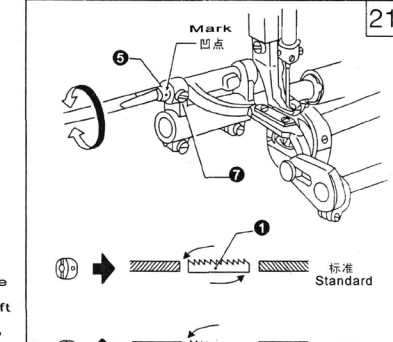
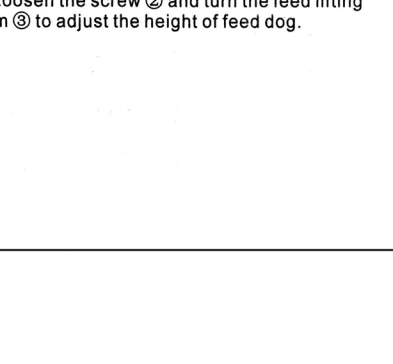
- Loosen the screw ② to lift the presser bar
- Put a measurement gauge with 8mm height under the presser foot;
- Loosen the screw ② and adjust the height of presser foot;
- Tighten the screw ④.

22.调节送布牙高度(图20)

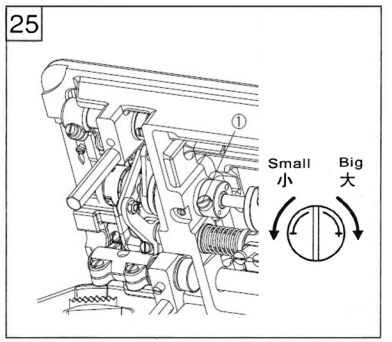
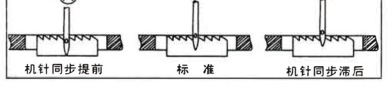
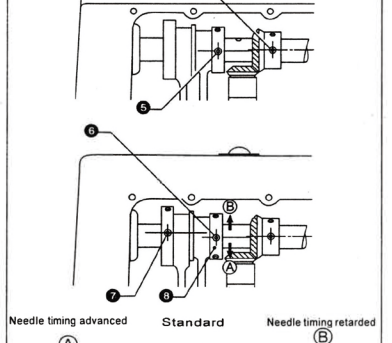
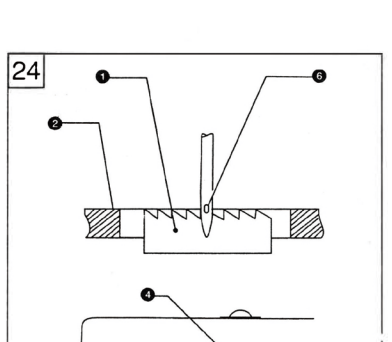
22. Adjusting the feed dog height (Fig. 20)

- 最大针距时，送布牙高出针板1.2mm为标准。
- 松开螺钉 ② 转动抬牙叉 ③ 的角度，就可调整送布牙齿的高度。

- Set the stitch length maximum, when the feed dog ① is at its highest position above the needle plate, the standard height is 1.2mm
- Loosen the screw ② and turn the feed lifting arm ③ to adjust the height of feed dog.



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28.调整针杆高度与旋梭同步 (图26)

28. Adjusting the height of needle bar and the timing with hook (Fig. 26)

当针杆降至最低位置时，针杆 ① 最上面的刻线标记应与针杆下套 ② 的下端面一致。

- 转动上轮，使针杆降至最低位置。
- 取下橡皮塞 ③。
- 松开螺钉 ④，然后上下移动针杆 ① 来调节它的位置。
- 拧紧螺钉 ④。
- 塞上橡皮塞 ③。

使针杆 ① 从最低位置上升，当针杆 ① 上数第二条刻线标记 ⑤ 对准针杆下套 ② 的下端面时（如图示），旋梭的梭尖 ⑥ 应对准机针 ⑦ 的中心。

- 转动上轮使针杆 ① 从最低位置上升，直至上数第二条刻线标记 ⑤ 对准针杆下套的边沿。

*当针杆上升2.4mm时，针眼上限与旋梭梭尖之间的距离为1.3~1.8mm。

- 松开螺钉 ④，然后将梭尖对准机针 ⑦ 的中心。

此时旋梭尖与机针的侧面间隙为0.05mm。

- 拧紧螺钉 ④。

When the needle bar ① is at its lowest position, the top reference line (A) on the needle bar should be aligned with the bottom edge of the needle bar bush ②.

- Turn the machine pulley to lower the needle bar to its lowest position;
- Take out the rubber cap ③;
- Loosen the screw ④, and move the needle bar ① to proper position;
- Tighten the screw ④;
- Close the rubber cap ③.

Lift the needle bar ① from the lowest position, when the second reference line (B) on the needle bar is aligned with the bottom edge of the needle bar bush ②, the tip ⑤ of the hook should be aimed at the center of needle ⑦.

- Turn the machine pulley to raise the needle bar ① from its lowest position until the reference line (B) is aligned with the bottom edge of the needle bar bush ②

*When the needle bar moves up 2.4mm, the clearance between the upper of needle hole and the hook tip should be 1.3-1.8mm

- Loosen the screw ④, and make the hook tip aimed at the center of needle ⑦, the clearance between the hook tip and needle should be 0.05mm
- Tighten the screw ④.

5. Close the rubber cap ③.

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26.调节机针与送布机构同步(图24)

26. Adjusting the timing of needle and feed mechanism (Fig. 24)

标准位置：

当送布牙从最高位置下降，机针孔中心 ① 应与针板上表面 ②、送布牙顶端 ③ 在同一水平面上。

调整可以通过调节送布凸轮和抬牙凸轮的安装位置进行。

- 卸下后盖板。
- 用左手逆时针转动上轮，以上轴齿轮第二只固定螺钉 ④ 为基准，抬牙凸轮的第三只固定螺钉 ⑤ 中心，将对齐 ① 中心，稍微向下偏一点。

- 继续逆时针转动上轮，以抬牙凸轮 ⑥ 第二只紧固螺钉 ⑦ 为基准，送布凸轮的第三只紧固螺钉 ⑧ 中心，将对齐 ① 中心，稍微向上偏一点。

- 若要调整为非标准位置，则先松开抬牙凸轮上三颗螺钉，再根据 ⑨ 或 ⑩ 所示方向少许转动偏心凸轮 ⑪。

为增加线张力，则向 ⑫ 方向转动。

为避免机针挤弯，则向 ⑬ 方向转动。

- 调整结束后，拧紧所有螺钉。

The standard timing is when the feed dog is lowered from its highest position until it is flush with the top of the needle plate ②, and the needle eye ③ is also aligned horizontally with the surface.

Adjust by changing the phases of feed cam and eccentric wheel UD

- Remove the rear cover
- Turn the machine pulley in reverse direction, set the second screw ④ on the gear of upper shaft as reference mark, make the third screw ⑤ of eccentric wheel UD slightly lower than the reference mark screw ④.

- Continue to turn the machine pulley, set the second screw ⑥ of eccentric wheel UD as reference mark, make the third screw ⑦ of feed cam slightly higher than the reference mark screw ⑥.

- If need a non-timing position, loosen the three screws of eccentric wheel UD, adjust the eccentric cam ⑧ in the direction of arrow (A) or (B)

To increase the tension of thread, turn the eccentric cam ⑧ to direction (A)

To avoid the needle bent, turn the eccentric cam ⑧ to direction (B)

- After adjustment, tighten all of the screws.

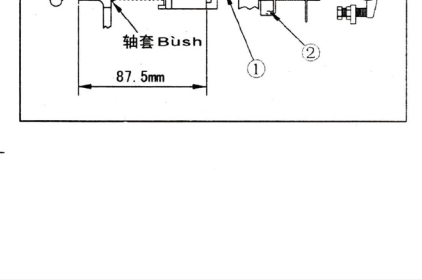
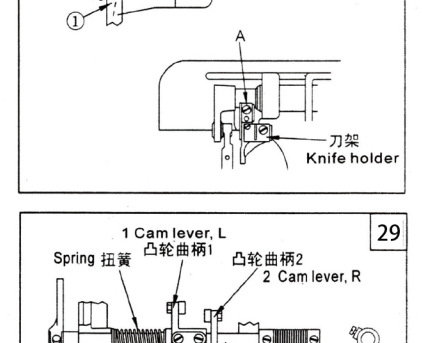
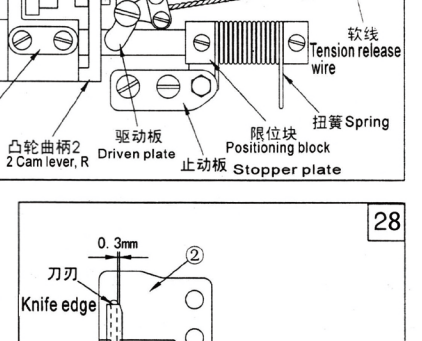
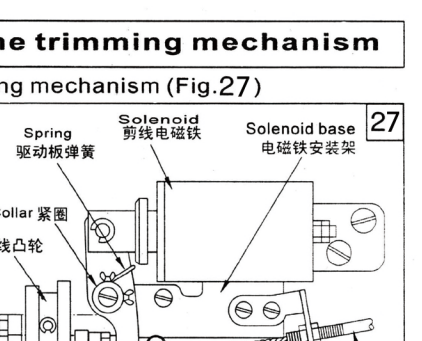
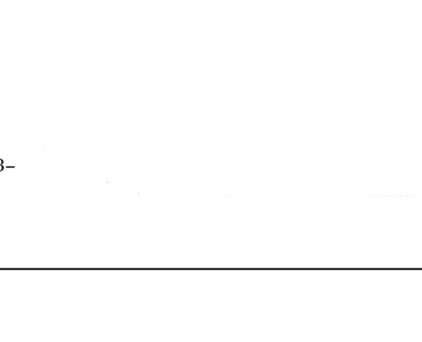
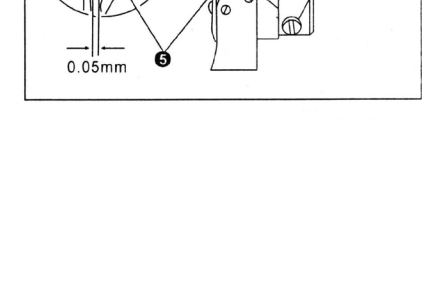
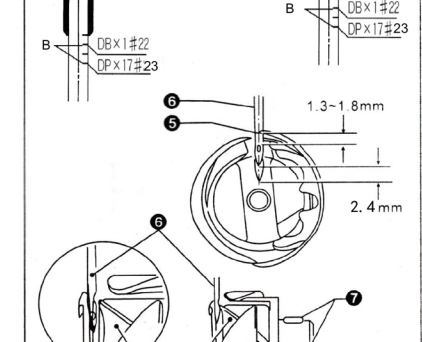
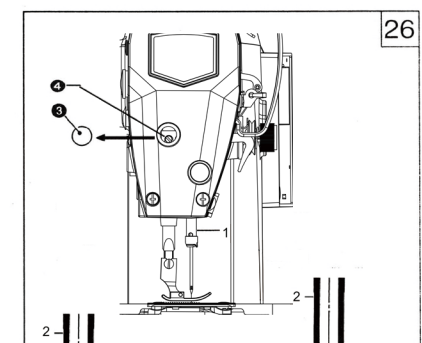
27.调节旋梭油量(图25)

27. Adjusting the rotary hook lubrication amount (Fig. 25)

放倒机头，转动油量调节螺钉 ① 来调节油量大小。

Tilt back the machine head, and turn the oil adjustment screw ① to adjust the hook oiling amount.

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30.清扫(图33) 30.Clean (Fig. 33)

- 抬起压脚。

- 拧开两螺钉 ①，然后卸下针板 ②。

- 使用软毛刷对送布牙进行清扫。

- 装上针板 ② 及拧紧两螺钉 ①。

- Raise the presser foot;
- Remove the two screws ① and needle plate ②;
- Clean the feed dog with a soft brush;
- Install the needle plate ② by two screws ①.

- 缓慢转动上轮，观察机针是否落入针板孔的中心位置。

- 如果机针不时落入中心位置。
- 检查机针是否弯曲。
- 松开两螺钉 ①，然后重新安装针板 ②。

- Turn the machine pulley slowly and check if the needle drops into the hole center of needle plate

- If not
- Check if the needle is bent
- Loosen the screw ①, and reinstall the needle plate ②

- 转动上轮将机针上升至针板以上，然后观察机针针尖是否钝挫，如果钝挫则更换机针。

- 放倒机头。

- 卸下梭芯套 ④。

- 用软布将旋梭中的灰尘擦除干净，并检查旋梭是否被损坏。

- 将梭芯从梭芯套中拿出，用布将梭芯套擦干净。

- 将梭芯放入梭芯套中，然后将梭芯套装入旋梭中。

- 清除油滤网（A）上的尘屑。

- Turn the machine pulley and lift the needle above the needle plate, check if the needle tip is blunt, if yes, change a new one.

- Remove the bobbin case ④

- Clean the hook with a soft cloth and check if the hook is worn out

- Take out the bobbin from the bobbin case, and clean the bobbin case with a soft cloth

- Insert the bobbin into the bobbin case and place the bobbin case back into the machine

- Clean the dust on the filter (A) of oil pump.

- Turn the machine pulley slowly and check if the needle drops into the hole center of needle plate

- If not
- Check if the needle is bent
- Loosen the screw ①, and reinstall the needle plate ②

- Turn the machine pulley slowly and check if the needle drops into the hole center of needle plate

- If not
- Check if the needle is bent
- Loosen the screw ①, and reinstall the needle plate ②

- Turn the machine pulley slowly and check if the needle drops into the hole center of needle plate

- If not
- Check if the needle is bent
- Loosen the screw ①, and reinstall the needle plate ②

- Turn the machine pulley slowly and check if the needle drops into the hole center of needle plate

- If not
- Check if the needle is bent
- Loosen the screw ①, and reinstall the needle plate ②

- Turn the machine pul