

# 高速双针链式平缝机

HIGH-SPEED DOUBLE-NEEDLE  
CHAIN-STITCH SEWING MACHINE

使 用 说 明  
Operation Manual  
零 件 图 册  
Atlas of Parts

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## 重 要 安 全 指 示 说 明 IMPORTANT SAFETY INSTRUCTIONS

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

To get the most out of the many functions of this machine and operate it in safety, it is necessary to use this instruction manual correctly.

Please read this Instruction Manual carefully before use. We hope you will enjoy the use of your machine for a long time.

Please remember to keep this manual in a safe place.

1. 无论何时使用本机，须了解基本的安全事项，包括但不限于下列事项。  
Observe the basic safety measures, including, but not limited to the following ones, whenever you use the machine.
2. 通读所有说明，并保存好使用说明。如果需要，主动脉随时查阅。  
Read all the instructions, including, but not limited to this Instruction Manual before you use the machine. In addition, keep this instruction Manual so that you may read it at anytime when necessary.
3. 使用本机前，必须弄清与机有关安全规定，标准在您的国家是否适用。  
Use the machine after it has been ascertained that it conforms with safety rules/standards valid in your country.
4. 使用本机前或使用本机时，所有安全装置必须配备齐全。机器运转时，无安全装置属违法操作，决不允许。  
All safety devices must be in position when the machine is ready for work or in operation. The operation without the specified safety devices is not allowed.
5. 操作人员必须经过适当的培训。This machine shall be operated by appropriately-trained operators.
6. 为了您的人身安全，我们建议您戴上防护眼镜。  
For your personal protection, we recommend that you wear safety glasses.
7. 下列情况下，请关闭电源开关或拔下电源插头。  
For the following, turn off the power switch or disconnect power plug of the machine from the receptacle.
  - 7-1 机器停用。  
For the machine off.
  - 7-2 更换机针、压脚、针板、送料牙、布料导板等。  
For replacing part(s) of needle, presser foot, throat plate, feed dog, cloth guide etc.
  - 7-3 进行维修。  
For repair work.
  - 7-4 操作区域无人时。  
When there is no one working state of when the working place is unattended.
8. 在机器加油润滑时，若不小心让油碰到眼睛、皮肤或嘴下机油或润滑油，立即冲洗掉油污部位或去医就诊。  
If you should allow oil, grease, etc. Used with the machine and devices to come in contact with your eyes or swallow any of such liquid by mistake, immediately wash the contacted areas and consult a medical doctor.
9. 无论机器运转与否，严禁乱动机器零部件和配套装置。  
Tampering with the live parts and devices, regardless of whether the machine is powered, is prohibited.
10. 机器的维修、改造和调整等工作必须由专业技术人员进行。  
Repair, remodeling and adjustment works must only be done by appropriately trained technicians or specially personnel.

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11. 应由专业受训人员进行一般的维修和检验工作。 General maintenance and inspection works have to be done by appropriately trained personnel.	
12. 必须在专业电器人员或专业技术人员的指导下进行有关电器部件的维修，任何电器部件一经发现受损，立即停止机器运转。 Repair and maintenance works of electrical components shall be conducted by qualified electric technicians or under the audit and guidance of specially skilled personnel.	
13. 使用期间要定期全面彻底清洗机器。Periodically clean the machine throughout the period of use.	
14. 正常操作本机时，必须进行试运转，工作环境远离强电磁源，如高频电焊机等。 Grounding the machine is always necessary for the normal operation of the machine. The machine has to be operated in an environment that is free from strong noise sources such as high-frequency welder.	
15. 由电器人员选择合适的插头和有接地线的插座。 An appropriate power plug has to be attached to the machine by electric technicians. Power plug has to be connected to a grounded receptacle.	
16. 若需要改造或改装本机，请采用有效可行的安全措施。本公司对由此而产生的伤害不承担责任。 The machine is only allowed to be used for the purpose intended. Other uses are not allowed.	
17. 本机只适用于专业缝纫。 Remodel or modify the machine in accordance with the safety rules/standards while taking all the effective safety measures. We assume no responsibility for damage caused by remodeling or modification of the machine.	
18. 两种警告提示符 Warning hints are marked with the two shown symbols.	
	操作人员或维修人员请注意 Danger of injury to operator or service staff
	特别注意事项 Items requiring special attention

## 安 全 操 作 事 项 FOR SAFE OPERATION

	1. 为避免触电，請不要打开电机的电箱盖，也不要接触电箱内新组件。 To avoid electrical shock hazards, neither open the cover of the electrical box for the motor nor touch the components mounted inside the electrical box.
	1. 为避免人身伤害，移动皮带罩，护手挡或安全装置时，请不要开动机器。 To avoid personal injury, never operate the machine with any of the belt cover, finger guard or safety devices removed.
	2. 为尽可能避免机器运转造成的人身伤害，手指、头部和衣服应远离转轮、皮带和电机周围不要放置任何物品。 To prevent possible personal injuries caused by being caught in the machine. Keep your fingers, head and clothes away from the handwheel, V belt and the motor while the machine is operating. In addition, place nothing around them.
	3. 为避免人身伤害，当您打开电源开关或操作机器时，切勿将手放在机头下方。 To avoid personal injury, never put your hand under the needle when you turn "ON" the power switch or operate the machine.
	4. 为避免人身伤害，机器运转时，切勿将手指放入挑线罩内。 To avoid personal injury, never put your fingers into the thread take-up cover while the machine is in operation.
	5. 针杆高速运转时，勿将手指放在弯针附近。另外，换弯针时，请关掉机器电源开关。 When the needle is running at high speed, do not put your fingers near the needle. Besides, when changing the needle, please turn off the machine's power supply.

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	The looper rotates at a high speed while the machine is in operation. To prevent possible injury to hands, be sure to keep your hands away from the vicinity of the looper during operation. In addition, be sure to turn OFF the power to the machine when replacing the looper.
	6. 为尽可能避免人身伤害，当您抬起机头时，勿将手指插入机器内部。 To avoid possible injuries to hands, be careful not to allow your fingers in the machine when lifting/raising the machine head.
	7. 为尽可能避免人身伤害，当您突然启动机器时，请勿让机器启动或皮带罩或皮带转动。 To avoid possible accidents because of abrupt start to be machine, turn OFF the power to the machine when lifting the machine head or removing the belt cover and the V belt.
	8. 如果你的机器配用伺服电机，机器未运转时，电机无噪音。为避免机器的突然启动所造成的事故，请关掉机器的电源开关。 If your machine is equipped with a servo-motor, the motor does not produce noise while the machine is at rest. To avoid possible accidents due to abrupt start of the machine, be sure to turn OFF the power to the machine.
	9. 为避免触电，移动电源地线时，请勿让机器运转。 To avoid electrical shock hazards, never operate the sewing machine with the ground wire for power supply removed.
	10. 为尽可能避免触电或电器组件受损，在插上或拔下插头之前，请关掉电源开关。 To prevent possible accidents because of electric shock or damaged electrical component(s), turn OFF the power switch in prior to the connection/disconnection of the power plug.

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## 操作前的注意事项 BEFORE OPERATION

**注意:**  
 为避免机器受损或发生事故,切记如下:  
 1. 确认初次使用本机器,请彻底清洗,除掉运输过程中的全部灰尘,并充分加油润滑。  
 2. 确认电压是否正常,插头与电源连接是否正确。  
 3. 若你的国家的电压与本机器设计电压不一致,请勿使用本机。  
 4. 确认电机转动方向是否正确。  
 5. 使用本机的第一个月,机器应在低于正常转速下运转。  
**CAUTION:**  
 To prevent damage and damage of the machine, confirm the following:  
 1. Before you put the machine into operation for the first time after the set-up, clean it thoroughly.  
 Remove all dust gathering during transportation and oil it well.  
 2. Confirm that the voltage has been correctly set.  
 Confirm that the power plug is connected to the power supply.  
 Never use the machine if the voltage type is different from the designated one.  
 Confirm that the direction of rotation of the motor polay is correct.  
 Operate your machine at the less of sewing speed in the first month.

## 机器规格 Specification

机型形式	并列双针双线链式缝	纵列双针双线链式缝	单列单针双线链式缝	三针锁式缝
速 度		最高每分钟5500转		最高每分钟3500转
针迹长度		1/16"-5/32"(1.4-4mm)		
针杆行程		30mm		
双针间距范围	1/8" 5/32" 3/16" 7/32" 1/4" 5/16" 3/8" 1/2"	3/16"		1/8" x 2
换线形式		针杆换线		
缝纫机针		TV × 7#-21#		
弯 针		独立调节式和1/8"-1/2"通用		
保针架		摇动式, 固定式使用		
膝压压脚		上升量 8-10mm		
供 油		叶轮泵		
润滑油		2号白油		
Stitch type	Two-needle double-row chain stitch	Two-needle double-line chain stitch	One-needle single-row chain stitch	
Speed		Max. 5500 s.p.m		
Stitch length		1/16"-5/32" (1.4-4mm)		
Stroke of needle bar		30mm		
Gauge of double-row	1/8" 5/32" 3/16" 7/32"	3/16"		
Chain stitch	1/4" 5/16" 3/8" 1/2"			
Thread take-up type		Needle bar thread take up type		
Needle		TV x 7 9#-21#		
Looper		Separately adjustable type, for the range of 1/8" to 1/2"		
Needle guard		Oscillating type and rigid type		
Light clearance of knee lifter		8-10mm		
Oil supply		Impeller-type pump		
Lubricating oil		"2 while oil		

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### 二. 开车前的注意事项 Pre-start check

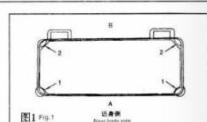
1. 油盒内未加油绝不开车。
2. 机器运转时,从上向下看转向应为逆时针方向。注意,不能倒转。
3. 在最初使用的第一月中,应把速度降低为每分钟4500转进行缝纫作业。
4. 按照电动机标牌上的标注,检查电源,电压及单相,三相是否正确。
5. The machine shall not be started at less than 4,500 S.P.M. For the first month.
6. Check power source, voltage, and phase number to see whether they are in accordance with the ratings on the name plate of the motor to be used.

### 三. 使用注意事项 Operating instructions

1. 机器运转时,请勿将手放到针的下方。
2. 机器运转时,请勿将手指伸入挑线杆护罩内。
3. 机器确实停止后,才能启动上轮。
4. 关掉电动机开关后,由于惯性的缘故,电动机还会继续旋转一段时间,所以要注意,未停止转动不能将机器倾倒。
5. 机器运转时,请勿将手指、头发或其他东西靠近或接触上轮、“V”形皮带、电动机,也不要将东西放置在它们附近。
6. 装拆皮带罩及护指套时,请勿开动机器,更不得在将皮带罩卸下的状态下开动机器。
7. Do not put your hands under the lower part of the needle when the machine is running.
8. Do not put your fingers in the thread take-up lever cover when the machine is running.
9. Only when the machine stops can you turn the balance wheel by hand.
10. After the motor switch is turned off, due to inertia, the motor will continue to rotate for a while. Be careful not to have the machine tilted unless it stops.
11. Keep away from the balance wheel, V-belt, winder and the motor.
12. Do not start running the machine during mounting or replacing the belt cover, finger guard, etc.

### 四. 机器的安装 (图1) Installation of the machine(Fig.1)

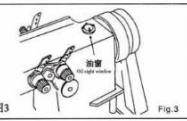
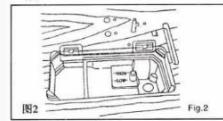
1. 将油盘支撑1套在油盘近侧(A2),将油盘座垫套在油盘B侧,再将油盘连同座套一起放入机器中。
2. 将机头直接插入底板孔内,与台板的机头连接结构相嵌合,再将机头放到四只角的缓冲垫上。
3. Nail the rubber washer on the operator's side of the table, lever the washers on the other side (B) then place the oil reservoir on top.
4. Put the machine connecting hooks into the holes to engage respectively two hinges seated in the table, then place the machine on the four cushions.



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### 五. 加油 (图2,图3) Oiling(Fig.2,3)

1. 向油盒内加缝纫机油(2号白油)至HIGH记号位 (图2)
2. 如果油面低于LOW记号,应再加油。
3. 加油后开动机器,润滑正常时,应看到油液喷到油窗上(图3)。至于喷到油窗上的油量多少与总油量的多少有关,所以不必担心。
4. 如需换新油,只要拆下油盘的抽油螺钉,污油就能排出。
5. 使用新机器长期未使用的缝纫机时,需抬起压脚以每分钟3500-4000转的速度空转约10分钟。

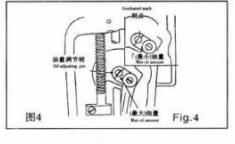


### 六. 面部油量调节 (图4)

How to regulate oil amount by means of manipulating elements on the face plate(Fig.4)

- 转动油量调节销,可以调节针杆双线链杆的供油量,调节销的刻点,靠近针杆双线链杆时,油量最小,反之,则油量最大 (图4)。  
 注意,调节油量时要十分注意,供油量并不是随调节立刻变化的。

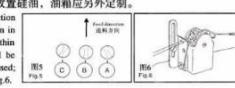
To turn oil-amount adjusting pin to regulate oil amount of the thread take-up crank, min. Oil amount will be supplied when the mark of adjusting pin moves to the thread take-up crank as near as you desire. Otherwise, max. Oil amount will be supplied.



### 七. 机针的安装 (图5,图6) Setting-up of the needle (Fig.5,6)

机针请使用TV×7#或21#型机针,装缝针时应对应的针孔缝料送料方向一致如图5(B)所示。特别是在使用化纤线时,机针针孔的方向不能如(图5)中的方向安装。  
 用化纤线缝制时,可按(B图6)所示形式放置硅油,油箱应另外定制。

- When thread of chemical fiber is used, the direction of the needle eye shall not be in that one, as shown in part C of Fig.5. Needle types to be desired fall within the range of #9 to #21 of TV×7#. Oil tank shall be custom-made when thread of chemical fiber is used; silicone oil can be placed like that, as indicated in Fig.6.



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#### 八、面线的穿法 (图7) The threading of needle thread.(Fig.7)

在针杆上升到最高位置时,按图7所示顺序依次穿过各线孔。

1. 线从操作者一侧向外穿过机针。

2. 面线穿过机针后必须再拉出100mm长线条。

To pass the eyes of the needles in the order as shown in Fig.7:

1) To make thread go through the eye of the needle outwards.

(View from the operator's side)

2) To pull out 100mm of the remaining thread after needle thread going through the eyes of the needles.

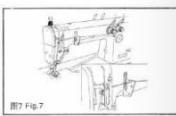


图7 Fig.7

#### 九、底线的穿法 (图8,图9) The threading of bobbin thread (Fig.8,9)

底线按图所示穿线顺序依次穿过各线孔。

1. 按(图8)所示将穿线器单面导线板,如用硬度大的丝或缝纫时需送料距大的时候应穿二个孔。

2. 把(图9)中的扳簧侧操作人员朝向A就向上抬起。

3. 穿弯针线时,用附件中的镊子按图所示将线穿过去,在弯针的前端拉出50mm长线条。

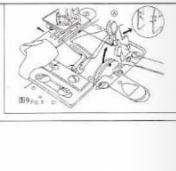
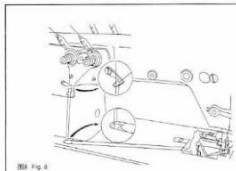


图8 Fig.8

图9 Fig.9

#### 十、线夹器 (图10,图11,图12) Thread tension asm. (Fig.10,11,12)

面线张力的调节 (图10所示): 向右转动夹线螺母张力变大。

底线张力的调节 (图11所示): 向右转动夹

线螺母张力变大。

底线的关系 (图12所示) 为链式线迹的形

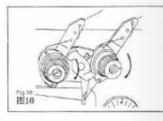


图10 Fig.10

图11 Fig.11

图12 Fig.12

图10 Fig.10

图11 Fig.11

图12 Fig

## 二十. 弯针架和机针间的间隙 The clearance of looper and needle

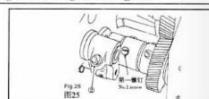
保针架调整后，机针和弯针架应留有一定间隙，即用手指轻压机针，机针也不应碰到弯针架。如果间隙太小了，机针的侧面与弯针架尖就会因相互碰撞而损伤。

After adjusting the needle guard, the clearance of a given value between the needle and the looper shall be kept unchanged; the needle shall not touch at the point of the looper when it is pressed down softly. If the clearance is narrower than usual, the side of the needle and the point of the looper are apt to incur breakage due to the impact of the needle side against the looper point.

## 二十一. 保针架的同步 (图25) The timing of needle guard (Fig.25)

保针架的同步，由(图25)中第一螺钉旋入弯针轴上的平面决定。

The timing of the needle guard depends on the condition of the plane on the rock shaft of the looper when no.1 screw has been screwed into this rock shaft.



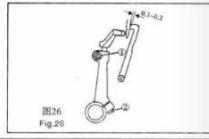
## 二十二. 保针架的位置 (图26) Position of needle guard (Fig.26)

摆动保针架位置，使弯针勾触面时让机针的针尖轻轻接触及保针架，其高度应调整到不触及固定保针架范围，震松 (图26) 中螺钉①②即可进行调节。

松开螺钉的 needle guard to make the node tip contact with needle gauge slightly.

It is recommended that the height adjustment shall not fall within the area of the left counter needle guard. The adjustment can be made by loosening screw ① and ②. The relation between left counter needle guard and the counter needle guard is as represented in Fig 26; the clearance from the needle falls within the range of 0.1 to 0.2mm.

Note that the forced clamp of the needle shall be prohibited when the machine is in motion.



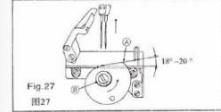
## 二十三. 底线打线内轮廓 (图27) Looper thread take-up cam (Fig.27)

底线打线凸轮的位置如(图27)所示。针杆在最高点时，打线凸轮平面部分和钢丝平行部分的夹角为 $18^{\circ} - 20^{\circ}$ ，震松螺钉B进行调整，位置决定后将螺钉再旋紧。

调整时请注意下列事项：底轮从打线凸轮的端突A脱出时，针尖要完全进入底轮的线环中。

Its position can be seen as shown in Fig.27 when the needle bar is at the top dead centre, the planes of the cam and steel wire are inparallel; the projecting part can be slightly rise at the angle of 18 to 20 degrees. First loosen screw B, and then make adjustment, finally tighten the make adjustment, finally tighten the screw firmly. Pay close attention to the following; the needle tip shall entirely come into the thread loop of the looper when the bobbin thread rejecting from the projecting part of the cam.

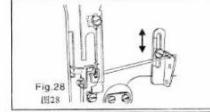
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## 二十四. 挑线杆线量调节板的位置 (图28) The position of the thread-amount adjusting plate of the thread take-up lever (Fig.28)

针杆在最低点时，如(图28)所示，用挑线杆线量调节板挡住面线，这样勾触面线时，线环将变大。

此外，针杆在最低处时，也有拉紧面线环的作用。通常在使用较细的维线时，应把线量调节板降到最低点。



## 二十五. 中间导线钩 (图29) Frame thread eyelet (Fig.29)

中间导线钩的位置与跳针现象的发生，一般把下例位置作为基准 (图29)

棉 线#80-#50 中间导线钩刻度2-3 化纤线#80-#50 中间导线钩刻度1-2

棉 线#50-#20 中间导线钩刻度3-4 化纤线#50-#20 中间导线钩刻度2-3

The improper position of the frame thread eyelet may be the cause of occurrence of skipping stitch.

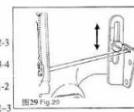
The following locations are generally regarded as criteria (refer to Fig2)

Cotton thread #80-#50 Graduation marked on the frame thread eyelet 2-3

Cotton thread #80-#50 Graduation marked on the frame thread eyelet 3-4

Thread of chemical fiber #80-#50 Graduation marked on the frame thread eyelet 1-2

Thread of chemical fiber #80-#50 Graduation marked on the frame thread eyelet 2-3

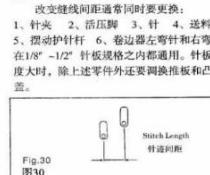


## 二十六. 针板的调换 (图30) Replacement of throat plate (Fig.30)

并列双针链缝机针间距距出厂标准规格为1/4" (6.4mm)。(图30) 改变针间距通常时要更换：

1. 针头 2. 活压脚 3. 针 4. 送料牙 5. 搅动护针杆 6. 卷边器左右弯针板

5.1 在1/8" - 1/2" 针板规格之内都适用。针板宽度大于时，除上述零件外还要更换推板和凸轮盖。



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## 二十七. 维缝机的保养 Maintenance of the machine

为了使缝纫机保持良好的工作状态，要做以下事项：

### (一) 每日必须检查的事项：

1. 旋转时，油箱内有油在飞溅。
2. 旋转时，一听到有异常声音，即应停止缝纫作业，并请修理工来检查。
- (二) 每周一次检查部位：
1. 拆下针板、推板、凸轮盖，用刷子清洗污水槽中的灰尘。
2. 把机头翻转，去除油泵过滤网上的垃圾及油盘内的灰尘。
3. 发现润滑油漏时，只需滴在油盘和滤网的排污口排空污油，排去沾在油盘和滤网上的油污，再重新用油螺钉后，注入新的润滑油。
4. 油面必须高于最低线 (LOW)

## 二十八. 故障和措施 Common breakdowns and measures of trouble shooting

序号	事故内容	原 因	对 像
1	断 线	1. 绞线质量差	1. 使用质量好的绞线
		2. 绞线太粗 (线比针稍粗)	2. 调整合适的绞线
		3. 机针过热而断绞线	3. 使用硅油或降低转速
		4. 绞线张力太强	4. 松开绞线螺母
		5. 机针、弯针、针板、保针架过线部份损伤	5. 用工具磨光再抛光
		6. 线量未调节好	6. 调节线量调节板
2	跳 针	1. 针板	1. 调整弯针勾取量 2. 送线和机针不同步 3. 脚踏机针同机针的同步
		2. 面线跳针	4. 根据维线的情况调整线量调节板 5. 调整中间导线钩的位置 6. 检查机针安装是否正确 7. 检查保针架的位置和同步是否正确 8. 检查维线是否穿正
		3. 底线跳针	1. 换上底线跳针1. 2检查 2. 检查底线凸轮的同步 3. 消除增强底线的张力 4. 检查维线穿得是否正确
		4. 使用化纤线时的跳针	1. 使用硅油 2. 降低转速 3. 使用化纤线用的机针
		4. 使用合成纤维线时的跳针	1. 降低转速 2. 使用硅油

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No.	Breakdown	Cause	Measures to be taken
1	Thread breaking	1. Poor thread quality or too thick 2. Too much thread tension 3. Thread too hot 4. Thread breakage due to damage 5. Thread張力过大	1. Replace thread 2. Replace to be made by an appropriate thread 3. Silicate oil to be loosened
		1. Machine thread too high temperature or too low temperature 2. Too much thread tension 3. Thread being too hot 4. Thread being too tight 5. Thread張力过大	1. Lower thread tension, especially the strength of thread 2. Make adjustment,使其同步 3. Research for the loose parts 4. Adjusting the thread take-up lever
		1. Skipping stich of needle thread (due to the looper failure to break the needle thread) 2. Skipping stich of bobbin thread (due to one switch, needle failure to enter the looper hole)	1. The tension not to be loosened? 2. Fine grinding with oil stone and then polishing
		3. Skipping stich when thread of chemical fiber is in use	6. Adjusting the thread amount adjusting plate 1. Adjusting thread-breaking amount of looper 2. Adjusting thread-breaking amount of needle 3. The timing of needle in reference to looper 4. Adjusting the thread-amount adjusting plate 5. Checking whether the mounting position of the needle guard is in accordance with the standard 7. To see if the location of needle guard is in accordance with the standard 8. The thread amount adjusting plate is in accordance with the standard
		4. Skipping stich when thread of polyester fiber is being in use	1) Refer to the above cases 1. and 2., as is skipping which of the needle thread 2) Adjusting the timing of the needle thread 3) Increasing tension of polyester fiber 4) To see if the thread of bobbin thread is in accordance with the standard 1) Using silicone oil 2) Grinding speed 3) Reducing tension for thread of chemical fiber.
		5. Skipping stich when thread of polypropylene fiber is being in use	1) Reducing speed 2) Silica oil to be used 3) Increasing tension of polypropylene fiber 4) To see if the thread of bobbin thread is in accordance with the standard 1) Increasing tension of needle thread 2) Tightening tension out of bobbin thread 3) Needle of large size to be used 4) Reducing the pressure of the presser foot 5) Readjusting its position on an appropriate 6) The cyclic of thread plate to be used being in accordance with the standard
3	Twisted stitches	1. Needles being bent 2. The pressure of the feed dog being not well regulated in reference to the rotation of the needle 3. The timing of the presser foot	1) Needles to be replaced by another of proper 2) Readjusting the timing to feed dog in 3) To make both the center of the hole of the needle and the center of the needle coincide 4) The positioning & the timing of the need 5. Relacing needle thread 6) Adjusting its position
		4. Twisting stich when thread of polyester fiber is being in use	1) Decreasing thread tension, esp. Tension of bobbin thread 2) Adjusting the timing of the very cam said to solve 3. Surface finishing all the parts on the thread 4. Turning counter-clockwise the pressure-regulating screw
		5. Twisting stich when thread of polypropylene fiber is being in use	1) Needles to be replaced by another of proper 2) Readjusting the timing to feed dog in 3) To make both the center of the hole of the needle and the center of the needle coincide 4) The positioning & the timing of the need 5. Relacing needle thread 6) Adjusting its position
		6. Twisting stich	1) Decreasing thread tension, esp. Tension of bobbin thread 2) Adjusting the timing of the very cam said to solve 3. Surface finishing all the parts on the thread 4. Turning counter-clockwise the pressure-regulating screw
4	Breakage of needle	1. Needles being bent 2. The pressure of the feed dog being not well regulated in reference to the rotation of the needle 3. The timing of the presser foot	1) Needles to be replaced by another of proper 2) Readjusting the timing to feed dog in 3) To make both the center of the hole of the needle and the center of the needle coincide 4) The positioning & the timing of the need 5. Relacing needle thread 6) Adjusting its position
		4. Twisting stich when thread of polyester fiber is being in use	1) Decreasing thread tension, esp. Tension of bobbin thread 2) Adjusting the timing of the very cam said to solve 3. Surface finishing all the parts on the thread 4. Turning counter-clockwise the pressure-regulating screw
		5. Twisting stich when thread of polypropylene fiber is being in use	1) Needles to be replaced by another of proper 2) Readjusting the timing to feed dog in 3) To make both the center of the hole of the needle and the center of the needle coincide 4) The positioning & the timing of the need 5. Relacing needle thread 6) Adjusting its position
5	Puckering	1. Thread tension being too high. 2. The problem of the timing of the bobbin thread being not well regulated in reference to the rotation of the needle 3. The timing of the presser foot	1) Needles to be replaced by another of proper 2) Readjusting the timing to feed dog in 3) To make both the center of the hole of the needle and the center of the needle coincide 4) The positioning & the timing of the need 5. Relacing needle thread 6) Adjusting its position
		4. Puckering when thread of chemical fiber is being in use	1) Decreasing thread tension, esp. Tension of bobbin thread 2) Adjusting the timing of the very cam said to solve 3. Surface finishing all the parts on the thread 4. Turning counter-clockwise the pressure-regulating screw

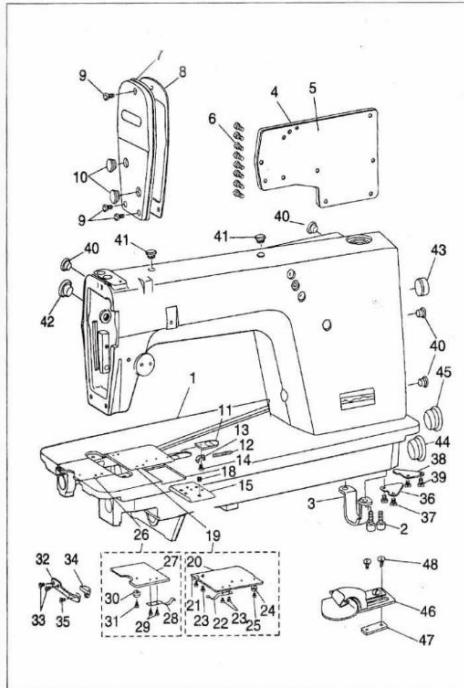
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(本样本中图样、件号、名称、结构仅供参考，如有变动，以产品实物为准)

1. 机壳分组件 Arm bed components



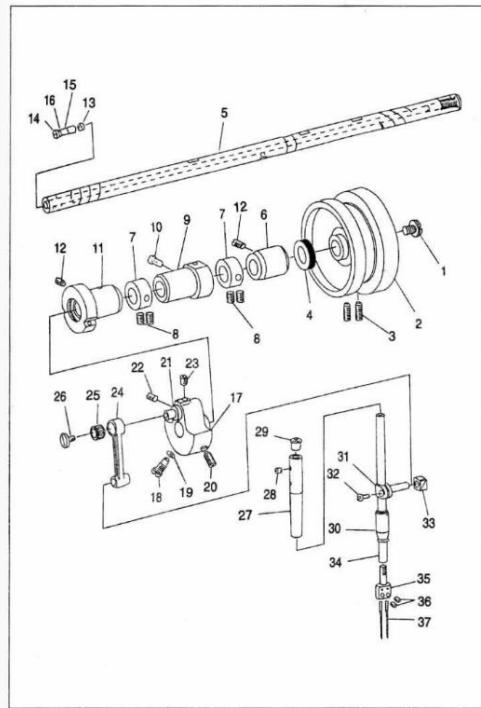
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1. 机壳分组件 Arm bed components

序号 Ref. No.	件号 Part No	名称 Description	数量 Amm.Req.
1	40-1-1	机壳部件	1
2	40-1-2	底板支撑板螺钉	2
3	40-1-3	底板支撑板	1
4	40-1-4	后盖板	1
5	40-1-5	后盖板垫	1
6	40-1-6	后盖板螺钉	8
7	40-1-7	面板	1
8	40-1-8	面板垫	1
9	40-1-9	面板螺钉	3
10	40-1-10	面板橡皮塞	2
11	40-1-11	凸轮盖压板	1
12	40-1-12	凸轮盖压板弹簧	1
13	40-1-13	凸轮盖压板弹簧座	1
14	40-1-14	凸轮盖压板螺钉	1
15	40-1-15	附件安装板	1
18	40-1-16	附件安装板定位螺钉	1
19	40-1-17	凸轮盖部件	(1)
20	40-1-18	凸轮盖	1
21	40-1-19	凸轮盖托板	1
22	40-1-20	凸轮盖弹簧	1
23	40-1-21	凸轮盖弹簧螺钉	4
24	40-1-22	凸轮盖导轮	1
25	40-1-23	凸轮盖导花螺钉	1
26	40-1-24	推板部件	(1)
27	40-1-25	推板	1
28	40-1-26	推板簧	1
29	40-1-27	推板黄螺钉	2
30	40-1-28	推板导轮	1
31	40-1-29	推板导轮螺钉	1
32	40-1-30	推板锁簧	1
33	40-1-31	推板锁簧螺钉	2
34	40-1-32	推板黄扳手	1
35	40-1-33	推板黄扳手螺钉	Screen
36	40-1-34	送料轴底板挡油板	Bed Oil Shield
37	40-1-35	底板挡油板螺钉	Screen
38	40-1-36	抬牙轴底板挡油板	Bed Oil Shield
39	40-1-37	底板挡油板螺钉	Screen
40	40-1-38	轴套定位销孔塞	Rubber Plug
41	40-1-39	上轴套油孔塞	Rubber Plug
42	40-1-40	右针曲面销孔塞	Rubber Plug
43	40-1-41	送料针齿调节器孔塞	Rubber Plug
44	40-1-42	抬牙销孔塞	Rubber Plug
45	40-1-43	下销孔塞	Rubber Plug
46	40-1-44	卷边器部件(1/4")	Folded
47	40-1-45	卷边器垫片	Gasket
48	40-1-46	卷边器螺钉	Screws

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2. 上轴杆分组件 Main shaft & needle bar components



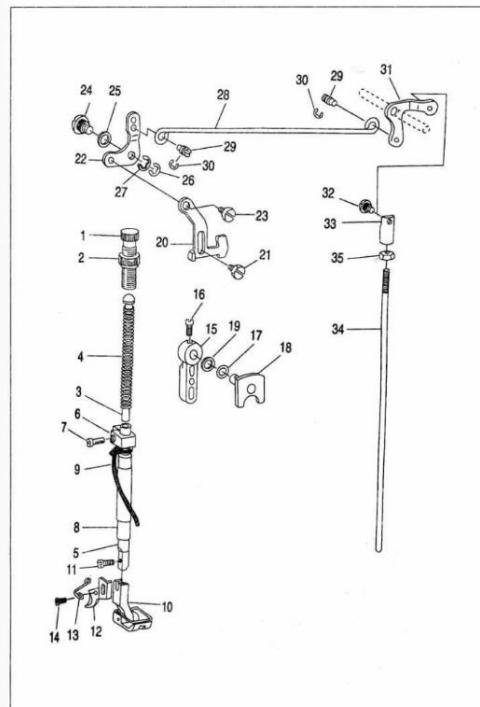
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### 2. 上轴针杆分组件 Main shaft & needle bar components

序号 Ref. No.	件号 Part No	名称 Description	数量 Arm.Req.
1	40-2-1	上轴安全螺钉 End Screw	1
2	40-2-2	上轮 Hand Wheel	1
3	40-2-3	上壳螺钉 Screw	2
4	40-2-4	上轴油封 Oil Seal	1
5	40-2-5	上轴 Main Shaft	1
6	40-2-6	上轴后轴承部件 Main Shaft Bushing, Rear	1
7	40-2-7	上轴挡圈 Main Shaft Thrust Collar	2
8	40-2-8	上轴挡圈螺钉 Screw	4
9	40-2-9	上轴中轴承部件 Main Shaft Bushing Intermediate	1
10	40-2-10	中轴套螺钉 Screw	1
11	40-2-11	上轴前轴承部件 Main Shaft Bushing, Front	1
12	40-2-12	轴套螺钉 Screw	2
13	40-2-13	曲柄油毡限制毡 Roller Felt	1
14	40-2-14	曲柄位置调节销 Crank Oil Adjusting Pin	1
15	40-2-15	曲柄位置调节销套 Rubber Bushing	1
16	40-2-16	曲柄油毡调节销的O-Rubber Ring	1
17	40-2-17	针杆曲柄 Counterweight Asm.	1
18	40-2-18	针杆曲柄定位螺钉 Screw	1
19	40-2-19	定位螺钉O形圈 O-Rubber Ring	1
20	40-2-20	针杆曲柄紧固螺钉 Screw	1
21	40-2-21	针杆连杆销 Needle Crank	1
22	40-2-22	挑线曲柄定位螺钉 Screw	1
23	40-2-23	挑线曲柄螺钉 Screw	1
24	40-2-24	针杆连杆 Needle Bar Crank Rod	1
25	40-2-25	针杆连杆滚针轴承 Needle Roller Bearing	1
26	40-2-26	针杆连杆左旋螺钉 Left Twist Screw	1
27	40-2-27	针杆上衬套 Needle Bar Bushing Upper	1
28	40-2-28	针杆上衬套螺钉 Screw	1
29	40-2-29	针杆上衬套孔塞 Rubber Plug	1
30	40-2-30	针杆下衬套 Needle Bar Bushing, Lower	1
31	40-2-31	针杆连接柱 Needle Bar Connection Asm.	1
32	40-2-32	针杆连接柱螺钉 Screw	1
33	40-2-33	针杆连接柱滑块 Crank Slide Block	1
34	40-2-34	针杆 Needle Bar	1
35	40-2-35	针夹(1/4") Needle Clamp (1/4")	1
36	40-2-36	支针螺钉 Screw	2
37	40-2-37	机针 Needle	2

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### 3. 压料分组件 Presser bar components



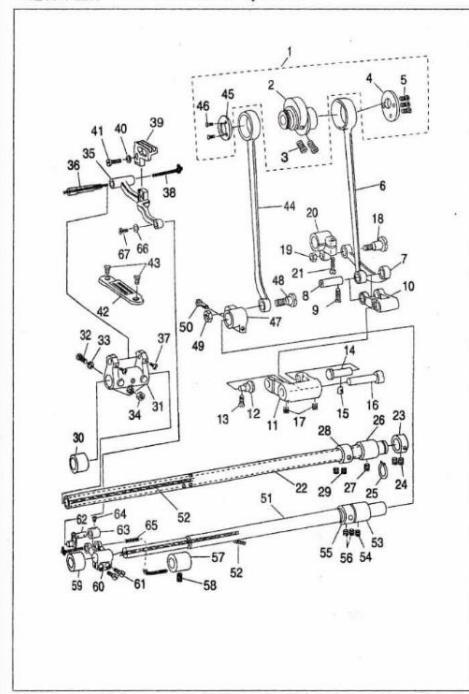
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### 3. 压料分组件 Presser bar components

序号 Ref. No.	件号 Part No	名称 Description	数量 Arm.Req.
1	40-3-1	调压螺钉 Presser Spring Regulator	1
2	40-3-2	调压螺钉螺母 Nut	1
3	40-3-3	调压导杆 Presser Bar Guide Bar	1
4	40-3-4	调压簧 Presser Spring	1
5	40-3-5	压杆 Presser Bar	1
6	40-3-6	压杆导架 Presser Bar Guide Bracket Asm.	1
7	40-3-7	压杆导架螺钉 Screw	1
8	40-3-8	压杆衬套 Presser Bar Bushing, Lower	1
9	40-3-9	压杆油线 Oil Wick	1
10	40-3-10	压脚部件1/4" Presser Foot Asm.	1
11	40-3-11	压脚螺钉 Screw	1
12	40-3-12	切线刀 Thread Knife	1
13	40-3-13	切线刀导钩 Thread Knife Guide	1
14	40-3-14	切线刀导钩螺钉 Screw	1
15	40-3-15	压脚扳手 Hand Lifter	1
16	40-3-16	压脚扳手螺钉 Screw	1
17	40-3-17	压脚板垫圈 Washer	1
18	40-3-18	压脚提升凸轮 Hand Lifter Cam Asm.	1
19	40-3-19	压脚板头O形圈 Rubber Ring	1
20	40-3-20	压脚提升板 Lifting Lever	1
21	40-3-21	升降板定位螺钉 Hinge Screw	1
22	40-3-22	抬压杠前杠杆 Lifting Link For Lifting Lever	1
23	40-3-23	前杠杆部位螺钉 Hinge Screw	1
24	40-3-24	前杠杆螺纹销 Hinge Pin	1
25	40-3-25	前杠杆螺纹销垫圈 Lifting Lever Gasket	1
26	40-3-26	前杠杆特制开口挡圈 Snap Ring	1
27	40-3-27	抬压脚前杠杆开口挡圈 Snap Ring	1
28	40-3-28	抬压脚前杠杆连接杆 Lifting Lever Connecting Rod	1
29	40-3-29	抬压脚前杠杆螺钉 Screw	2
30	40-3-30	抬压脚后杠杆开口挡圈 Snap Ring	2
31	40-3-31	抬压脚后杠杆 Lifting Lever Link Rear	1
32	40-3-32	抬压脚后杠杆螺钉 Hinge Screw	1
33	40-3-33	抬压脚顶杆接头 Swivel	1
34	40-3-34	抬压脚顶杆 Lifting Lever Connecting Rod, Vertical	1
35	40-3-35	抬压脚顶杆螺母 Nut	1

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### 4. 送料分组件 Feed mechanism components



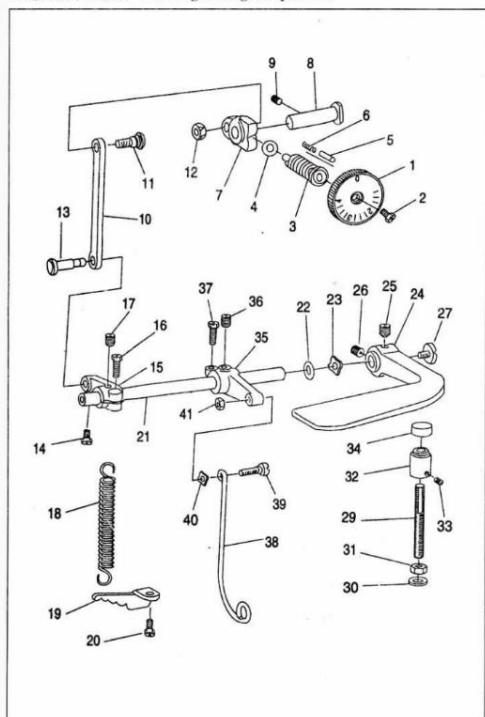
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#### 4. 送料分组件 Feed mechanism components

序号 Ref. No.	件号 Part No	名称 Description	数量 Arm.Req.
1	40-4-1	送料偏心轮组件 Feed eccentric cam assy.	1
2	40-4-2	送料偏心轮 Feed eccentric cam	1
3	40-4-3	送料偏心螺钉 Screw	2
4	40-4-4	送料偏心推力垫圈 Feed eccentric thrust washer	1
5	40-4-5	扁销 Screw	3
6	40-4-6	送料偏心轴连接杆 Feed eccentric shaft connecting rod	1
7	40-4-7	连接销 Connecting pin	1
8	40-4-8	送料连杆 Connecting rod	1
9	40-4-9	送料螺钉 Screw	1
10	40-4-10	送料摇臂 Feed driving rocker arm	1
11	40-4-11	送料摇臂销 Reed driving rocker	1
12	40-4-12	送料摇臂销轴 Hinge stud	1
13	40-4-13	送料摇臂销轴销 Screw	1
14	40-4-14	送料摇臂销 Hinge pin	1
15	40-4-15	送料摇臂销轴 Screw	1
16	40-4-16	送料摇臂销 Hinge pin	1
17	40-4-17	送料摇臂销 Screw	2
18	40-4-18	送料摇臂销 Hinge screw	1
19	40-4-19	送料摇臂销 Nut	1
20	40-4-20	送料摇臂销轴 Feed rocker shaft crank	1
21	40-4-21	送料摇臂销轴 Screw	1
22	40-4-22	送料摇臂销轴 Feed rocker shaft	1
23	40-4-23	送料摇臂销轴套筒 Thrust collar	1
24	40-4-24	送料摇臂销轴套筒 Screw	2
25	40-4-25	送料摇臂销轴套筒 Retaining ring	1
26	40-4-26	送料摇臂销轴套筒 Bushing rear	1
27	40-4-27	送料摇臂销轴套筒 Screw	1
28	40-4-28	送料摇臂销轴套筒 Thrust collar	1
29	40-4-29	送料摇臂销轴套筒 Screw	2
30	40-4-30	送料摇臂销轴套筒 Feed rocker shaft bushing, front	1
31	40-4-31	送料摇臂销轴 Feed rocker	1
32	40-4-32	送料摇臂销轴 Screw	1
33	40-4-33	送料摇臂销轴 Washer	1
34	40-4-34	送料摇臂销轴 Nut	1
35	40-4-35	送料摇臂销轴 Feed bar	1
36	40-4-36	送料油线 Oil wick	1
37	40-4-37	送料油线 Screw	2
38	40-4-38	送料油线 Oil wick	2
39	40-4-39	送料油线 Reed dog (1/4)	1
40	40-4-40	送料油线 Washer	1
41	40-4-41	送料油线 Screw	1
42	40-4-42	送料油线 Thrust plate (1/4)	1
43	40-4-43	送料油线 Screw	2
44	40-4-44	送料油线 Feed driving shaft connecting rod	1
45	40-4-45	送料油线 Feed driving eccentric thrust washer	1
46	40-4-46	送料油线 Screw	2
47	40-4-47	送料油线 Feed driving eccentric thrust washer	1
48	40-4-48	送料油线 Screw	1
49	40-4-49	送料油线 Feed driving eccentric thrust washer	1
50	40-4-50	送料油线 Screw	1
51	40-4-51	送料油线 Feed driving shaft	1
52	40-4-52	送料油线 Oil wick	2
53	40-4-53	送料油线 Bushing, rear	1
54	40-4-54	送料油线 Thrust collar	1
55	40-4-55	送料油线 Screw	2
56	40-4-56	送料油线 Bushing, intermediate	1
57	40-4-57	送料油线 Screw	1
58	40-4-58	送料油线 Feed rocker shaft bushing, front	1
59	40-4-59	送料油线 Feed rocker shaft crank	1
60	40-4-60	送料油线 Screw	2
61	40-4-61	送料油线 Thrust collar	1
62	40-4-62	送料油线 Screw	1
63	40-4-63	送料油线 Feed oil link	1
64	40-4-64	送料油线 Screw	1
65	40-4-65	送料油线 Oil wick	1
66	40-4-66	送料油线 Consumer-wink washer	1
67	40-4-67	送料油线 Screw	1

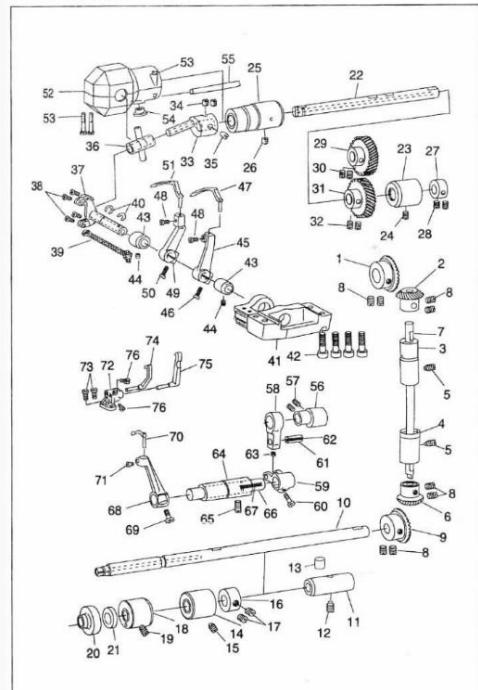
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#### 5. 送料调节分组件 Feed regulating components



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#### 6. 穿针勾线分组件 Looper thread retainer components



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序号 Ref. No.	件号 Part No	名称 Description	数量 Arm.Req.
1	40-5-1	送料距旋钮部件 Stitch dial assy.	1
2	40-5-2	送料距旋钮螺钉 Screw	1
3	40-5-3	送料调节螺柱 Feed regulating screw	1
4	40-5-4	送料调节螺柱O形圈 O-Rubber ring	1
5	40-5-5	送料锁紧销 Stitch dial lock pin	1
6	40-5-6	送料距锁合销簧 Stitch dial lock spring	1
7	40-5-7	送料调节器 Feed regulator	1
8	40-5-8	送料调节器销 Hinge pin	1
9	40-5-9	送料调节器销螺钉 Screw	1
10	40-5-10	送料调节器连杆 Feed regulator connecting rod	1
11	40-5-11	调节连杆轴位螺母 Hinge screw	1
12	40-5-12	调节连杆轴位螺母 Nut	1
13	40-5-13	拉簧调节曲柄销 Tension spring suspension stud	1
14	40-5-14	拉簧调节曲柄销螺钉 Screw	1
15	40-5-15	拉簧调节曲柄销 Tension spring suspension crank	1
16	40-5-16	调节曲柄紧固螺钉 Clamp screw	1
17	40-5-17	调节曲柄定位螺钉 Screw	1
18	40-5-18	倒送调节拉簧 Tension spring	1
19	40-5-19	拉簧锁定板 Suspension bracket	1
20	40-5-20	拉簧锁定板螺钉 Screw	1
21	40-5-21	倒送料轴 Reverse feed control lever shaft	1
22	40-5-22	倒送料轴O形圈 Rubber ring, large	1
23	40-5-23	倒送料轴弹性垫圈 Waved washer	1
24	40-5-24	倒送料扳手 Reverse feed control lever	1
25	40-5-25	倒送料扳手定位螺钉 Screw	1
26	40-5-26	倒送料扳手螺钉 Screw	1
27	40-5-27	倒送料轴端螺钉 End screw	1
29	40-5-28	倒送料挡销杆 Screw	1
30	40-5-29	挡销杆垫圈 Washer	1
31	40-5-30	挡销杆螺母 Nut	1
32	40-5-31	倒送料挡块 Lever stopper	1
33	40-5-32	倒送料挡块螺钉 Screw	1
34	40-5-33	倒送料挡块橡胶垫 Rubber cushion	1
35	40-5-34	倒送料曲柄 Control lever crank, rear	1
36	40-5-35	倒送料曲柄定位螺钉 Screw	1
37	40-5-36	倒送料曲柄螺钉 Screw	1
38	40-5-37	倒送料连杆 Feed driving rocker arm connecting	1
39	40-5-38	倒送料连杆 Screw	1
40	40-5-39	倒送料连杆轴位垫圈 Washer	1
41	40-5-40	倒送料连杆轴位螺母 Nut	1

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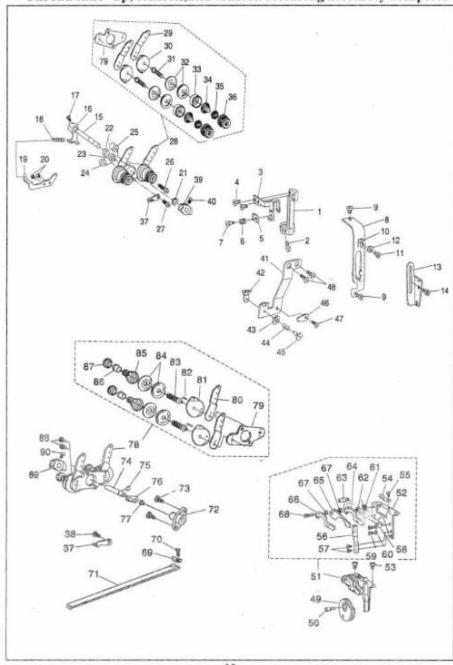
序号	件号	名称	数量
Ref. No.	Part No	Description	Arm. Req.
1	40-6-1	上导线架	1
2	40-6-2	导线架螺钉	1
3	40-6-3	导线架	1
4	40-6-4	导线架下盖组件	1
5	40-6-5	导线架下盖组件	1
6	40-6-6	导线架	1
7	40-6-7	导线架	1
8	40-6-8	导线架螺钉	1
9	40-6-9	导线架螺钉	1
10	40-6-10	导线架螺钉	1
11	40-6-11	导线架螺钉	1
12	40-6-12	导线架螺钉	1
13	40-6-13	导线架螺钉	1
14	40-6-14	导线架螺钉	1
15	40-6-15	导线架螺钉	1
16	40-6-16	导线架螺钉	1
17	40-6-17	导线架螺钉	1
18	40-6-18	导线架螺钉	1
19	40-6-19	导线架螺钉	1
20	40-6-20	导线架螺钉	1
21	40-6-21	导线架螺钉	1
22	40-6-22	导线架螺钉	1
23	40-6-23	导线架螺钉	1
24	40-6-24	导线架螺钉	1
25	40-6-25	导线架螺钉	1
26	40-6-26	导线架螺钉	1
27	40-6-27	导线架螺钉	1
28	40-6-28	导线架螺钉	1
29	40-6-29	导线架螺钉	1
30	40-6-30	导线架螺钉	1
31	40-6-31	导线架螺钉	1
32	40-6-32	导线架螺钉	1
33	40-6-33	导线架螺钉	1
34	40-6-34	导线架螺钉	1
35	40-6-35	导线架螺钉	1
36	40-6-36	导线架螺钉	1
37	40-6-37	导线架螺钉	1
38	40-6-38	导线架螺钉	1
39	40-6-39	导线架螺钉	1
40	40-6-40	导线架螺钉	1
41	40-6-41	导线架螺钉	1
42	40-6-42	导线架螺钉	1
43	40-6-43	导线架螺钉	1
44	40-6-44	导线架螺钉	1
45	40-6-45	导线架螺钉	1
46	40-6-46	导线架螺钉	1
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50	40-6-50	导线架螺钉	1
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58	40-6-58	导线架螺钉	1
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60	40-6-60	导线架螺钉	1
61	40-6-61	导线架螺钉	1
62	40-6-62	导线架螺钉	1
63	40-6-63	导线架螺钉	1
64	40-6-64	导线架螺钉	1
65	40-6-65	导线架螺钉	1
66	40-6-66	导线架螺钉	1
67	40-6-67	导线架螺钉	1
68	40-6-68	导线架螺钉	1
69	40-6-69	导线架螺钉	1
70	40-6-70	导线架螺钉	1
71	40-6-71	导线架螺钉	1
72	40-6-72	导线架螺钉	1
73	40-6-73	导线架螺钉	1
74	40-6-74	导线架螺钉	1
75	40-6-75	导线架螺钉	1
76	40-6-76	导线架螺钉	1
77	40-6-77	导线架螺钉	1
78	40-6-78	导线架螺钉	1
79	40-6-79	导线架螺钉	1
80	40-6-80	导线架螺钉	1
81	40-6-81	导线架螺钉	1
82	40-6-82	导线架螺钉	1
83	40-6-83	导线架螺钉	1
84	40-6-84	导线架螺钉	1
85	40-6-85	导线架螺钉	1
86	40-6-86	导线架螺钉	1
87	40-6-87	导线架螺钉	1
88	40-6-88	导线架螺钉	1
89	40-6-89	导线架螺钉	1
90	40-6-90	导线架螺钉	1

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序号	件号	名称	数量
Ref. No.	Part No	Description	Arm. Req.
1	40-7-1	导线架螺钉	1
2	40-7-2	导线架螺钉	1
3	40-7-3	导线架	1
4	40-7-4	导线架紧固螺钉	2
5	40-7-5	导线架支撑板	1
6	40-7-6	导线架支撑簧	1
7	40-7-7	导线架支撑板螺钉	1
8	40-7-8	导线架护罩	1
9	40-7-9	导线架护罩螺钉	2
10	40-7-10	线圈调节节板	1
11	40-7-11	线圈调节节板螺钉	1
12	40-7-12	调节螺钉固定圈	1
13	40-7-13	中间导线钩	1
14	40-7-14	中间导线钩螺钉	1
15	40-7-15	松线架	1
16	40-7-16	面线架	1
17	40-7-17	面线架曲柄部件	1
18	40-7-18	拉压调节杠杆弹簧	1
19	40-7-19	后杠杆弹簧固定板	1
20	40-7-20	后杠杆弹簧固定板螺钉	2
21	40-7-21	松线架挡圈	1
22	40-7-22	松线架油封	1
23	40-7-23	松线架环	1
24	40-7-24	夹线架下安装块	1
25	40-7-25	夹线器上安装块	1
26	40-7-26	夹线器上安装块螺钉	1
27	40-7-27	夹线器下安装块螺钉	1
28	40-7-28	针头线导管部件	(1)
29	40-7-29	面线针前导线板	2
30	40-7-30	面线针前导线板	2
31	40-7-31	松线架	1
32	40-7-32	面线架线板	1
33	40-7-33	面线架线座	2
34	40-7-34	面线架线簧	2
35	40-7-35	面线架止动块	2
36	40-7-36	面线架线螺母部件	2
37	40-7-37	导线钩	2
38	40-7-38	导线钩螺钉	1
39	40-7-39	面线架线爪	1
40	40-7-40	面线架线爪螺钉	1
41	40-7-41	过线板架	1
42	40-7-42	过线板	1
43	40-7-43	过线板	1
44	40-7-44	过线板簧	1
45	40-7-45	过线板螺钉	1

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7. 拴线、松线、夹线分组件  
Thread take-up, tension, and tension releasing assembly complete

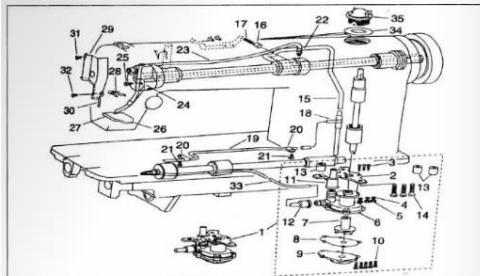


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序号	件号	名称	数量
Ref. No.	Part No	Description	Arm. Req.
46	40-7-46	松线板	1
47	40-7-47	松线板螺钉	1
48	40-7-48	过线板螺钉	2
49	40-7-49	底线打线凸轮	1
50	40-7-50	底线打线凸轮定位螺钉	1
51	40-7-51	底线打线凸轮定位部件	1
52	40-7-52	底线打线凸轮	1
53	40-7-53	底线打线凸轮螺钉	2
54	40-7-54	底线打线凸轮	1
55	40-7-55	底线打线凸轮	1
56	40-7-56	底线打线凸轮定位装置	1
57	40-7-57	底线打线凸轮定位装置	2
58	40-7-58	底线打线凸轮定位装置	1
59	40-7-59	底线打线凸轮定位装置	2
60	40-7-60	底线打线凸轮定位装置	2
61	40-7-61	底线打线凸轮定位装置	1
62	40-7-62	底线打线凸轮定位装置	1
63	40-7-63	底线打线凸轮定位装置	1
64	40-7-64	底线打线凸轮定位装置	1
65	40-7-65	底线打线凸轮定位装置	1
66	40-7-66	底线打线凸轮定位装置	1
67	40-7-67	底线打线凸轮定位装置	1
68	40-7-68	底线打线凸轮定位装置	1
69	40-7-69	底线打线凸轮定位装置	1
70	40-7-70	底线打线凸轮定位装置	1
71	40-7-71	底线打线凸轮定位装置	1
72	40-7-72	松线轴	1
73	40-7-73	松线轴油封	1
74	40-7-74	松线轴油封螺钉	2
75	40-7-75	松线轴油封螺母	1
76	40-7-76	松线轴油封螺母	1
77	40-7-77	松线轴油封螺母	1
78	40-7-78	松线轴油封螺母部件	(1)
79	40-7-79	长线臂安装板	2
80	40-7-80	长线臂导线板	2
81	40-7-81	长线臂导线板	2
82	40-7-82	底线打线止动销	2
83	40-7-83	底线螺钉	2
84	40-7-84	底线夹板	4
85	40-7-85	底线夹板	2
86	40-7-86	底线夹板	2
87	40-7-87	底线夹板	2
88	40-7-88	底线夹板	2
89	40-7-89	底线夹板	1
90	40-7-90	底线夹板	1

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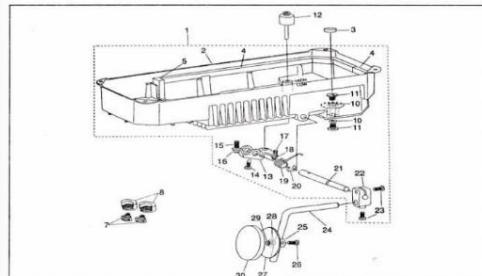
#### 8. 润滑分组件 Lubrication



序号 Ref. No.	件号 Part No	名称 Description	数量 Arm. Req.
1	40-8-1	油泵部件 Lubricating oil pump asm.	(1)
2	40-8-2	油泵安装板 Oil pump installing base	1
3	40-8-3	油泵安装螺钉 Screw	3
4	40-8-4	油泵安装螺母 Washer	3
5	40-8-5	油泵安装螺母 Nut	3
6	40-8-6	油泵体 Lubricating oil	1
7	40-8-7	油泵叶轮 Oil pump impeller	1
8	40-8-8	油泵叶轮板 Oil pump impeller cover	1
9	40-8-9	油泵盖零件 Lubricating oil pump cover	1
10	40-8-10	油泵盖螺钉 Screw	5
11	40-8-11	下轴供油管接头 Rubber joint	1
12	40-8-12	下轴供油管接头 Rubber joint	1
13	40-8-13	油泵盖螺钉 Collar	3
14	40-8-14	油泵盖螺钉 Screw	3
15	40-8-15	上轴供油管 Main shaft oil tube	1
16	40-8-16	回油泵柱塞 Oil return pump plunger	1
17	40-8-17	柱塞簧 Plunger spring	1
18	40-8-18	柱塞供油管接头/oil sight window base Oil sight pipe	1
19	40-8-19	柱塞供油管接头/oil sight window base Oil sight pipe	1
20	40-8-20	柱塞供油管接头/oil sight window base Holder	2
21	40-8-21	油封供油管接头螺钉 Screw	2
22	40-8-22	面漆回油管连接螺钉 Connecting screw	1
23	40-8-23	面漆回油管 return tube ass.	1
24	40-8-24	回油管夹头 Oil return tube holder	1
25	40-8-25	回油管夹头螺钉 Screw	1
26	40-8-26	回油除尘毡 Oil felt prescer	1
27	40-8-27	回油毡 Oil felt	1
28	40-8-28	回油毡支架 Oil felt prescer	1
29	40-8-29	面漆油油池 A/m oil shield	1
30	40-8-30	面部油油池 Oil wick	1
31	40-8-31	面部油油池螺钉 Screw	1
32	40-8-32	面部挡油板下螺钉 Screw	1
33	40-8-33	下轴供油管 Oil tube	1
34	40-8-34	油泵O形圈 O-Rubber ring	1
35	40-8-35	油窗 Oil sight window	1

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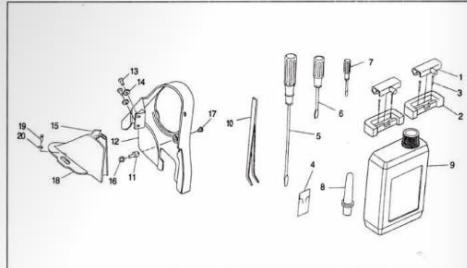
#### 9. 油盘、膝抬压脚分组件 Oil reservoir & knee lifter components



序号 Ref. No.	件号 Part No	名称 Description	数量 Arm. Req.
1	40-9-1	油盒部件 Oil reservoir asm.	(1)
2	40-9-2	油盒 Oil reservoir	1
3	40-9-3	油盒磁铁 Oil reservoir magnet	1
4	40-9-4	油盒侧面垫 Gasket	2
5	40-9-5	油盒端面垫 Gasket	1
6	40-9-6	油盒盖 Oil reservoir cap	2
7	40-9-7	油盒支撑垫 Oil reservoir felt cushion	2
8	40-9-8	排水螺钉 Oil drain cap pocket	2
9	40-9-9	排水螺钉 Oil drain screw	2
10	40-9-10	抬压脚顶销 Knee press lifter rod	1
11	40-9-11	抬压脚双向曲柄 Lifting	1
12	40-9-12	双向曲柄螺钉 Positioning screw	1
13	40-9-13	双向曲柄限位螺钉 Positioning screw	1
14	40-9-14	双向曲柄定位螺母 Nut	1
15	40-9-15	双向曲柄定位螺钉 Positioning screw	1
16	40-9-16	双向曲柄限位螺母 Nut	1
17	40-9-17	双向曲柄限位螺钉 Positioning screw	1
18	40-9-18	抬压脚轴向挡圈 Spring	1
19	40-9-19	抬压脚轴向挡圈 Ring	1
20	40-9-20	抬压脚轴承 Bearing bracket	2
21	40-9-21	抬压脚节头螺钉 Clamp screw	1
22	40-9-22	抬压脚节头螺钉 Clamp screw	1
23	40-9-23	抬压脚节头螺钉 Clamp screw	1
24	40-9-24	抬压板节头螺钉 Clamp plate head screw	1
25	40-9-25	抬压板节头螺钉 Clamp plate head screw	1
26	40-9-26	抬压板 Clamp plate	1
27	40-9-27	抬压板节头螺钉 Clamp plate head screw	1
28	40-9-28	抬压板节头螺钉 Clamp plate head screw	1
29	40-9-29	抬压板螺钉 Screw	1
30	40-9-28	抬压板软垫 Clamp plate soft pad	1

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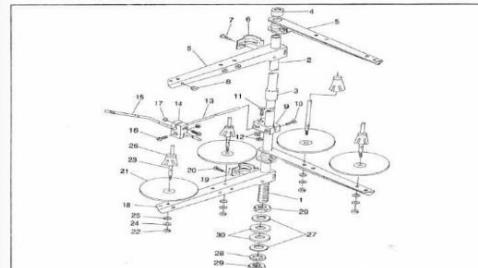
#### 10. 机头附件 Machine head accessories



序号 Ref. No.	件号 Part No	名称 Description	数量 Arm. Req.
1	40-10-1	机头连接钩部件 Machine hinge plate assm.	2
2	40-10-2	机头连接钩座 Machine hinge plate	2
3	40-10-3	机头连接钩座螺钉 Nuts	4
4	40-10-4	机针 Needle	1包
5	40-10-5	螺丝刀(大) Screw driver (L)	1
6	40-10-6	螺丝刀(中) Screw driver (M)	1
7	40-10-7	螺丝刀(小) Screw driver (S)	1
8	40-10-8	机头支柱 Machine rest pin	1
9	40-10-9	机头部件 Labeling unit case assm.	1
10	40-10-10	镊子 Tweezer	1
11	40-10-11	罩壳支柱 Bell-cover support stud	1
12	40-10-12	上轮前罩壳 Bell-cover A	1
13	40-10-13	罩壳螺钉 Screw	2
14	40-10-14	罩壳螺钉垫圈 Washer	2
15	40-10-15	后罩壳螺钉后罩壳螺钉 Bell-cover b cover assm.	1
16	40-10-16	后罩壳螺钉后罩壳螺钉 Nut	1
17	40-10-17	前罩壳紧固螺钉 Screw	1
18	40-10-18	上轮后罩壳 Bell-cover B	1
19	40-10-19	传动带罩壳木螺钉 Driving belt cover wood screw	2
20	40-10-20	罩壳木螺钉垫圈 Wood screw washer	2

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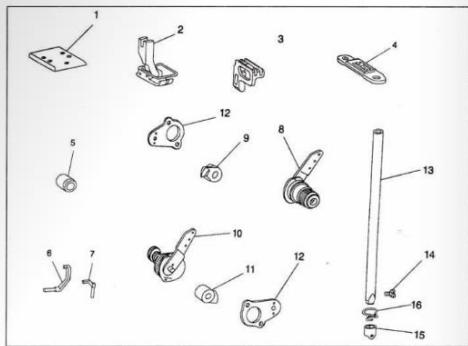
#### 11. 四线杠架分组件 Quadruple-thread spool stand asm.



序号 Ref. No.	件号 Part No	名称 Description	数量 Arm. Req.
1	40-11-1	线架杆下节 Spool rest rod (upper)	1
2	40-11-2	线架杆上节 Spool rest rod (lower)	1
3	40-11-3	线架杆接头 Spool rested joint	1
4	40-11-4	线架杆颈护橡皮 Spool rest rod rubber cap	1
5	40-11-5	线架过线杆 Thread guide arm	2*
6	40-11-6	线架过线杆接头 Spool rest arm joint	2*
7	40-11-7	线架过线杆螺钉 Screw	2*
8	40-11-8	导线架 Thread guide arm	6**
9	40-11-9	线架另线杆火光 Thread guide arm holder	1
10	40-11-10	线架导线杆火螺钉(A) Screw	1
11	40-11-11	线架导线杆火螺钉(B) Screw	1
12	40-11-12	线架杆头螺母 Nut	2
13	40-11-13	线架导线杆头螺母 Thread guide arm	1
14	40-11-14	线架导线杆过线夹 Thread guide arm holder	1
15	40-11-15	线架导线杆过线夹 Lower thread guide	1
16	40-11-16	线架导线杆过线夹螺钉 Screw	2
17	40-11-17	线架导线杆过线夹螺母 Nut	2
18	40-11-18	线盘架 Spool rest arm	2*
19	40-11-19	线盘架架头 Thread guide arm joint	2*
20	40-11-20	线盘架头螺钉 Screw	2*
21	40-11-21	线盘架 Spool rest	4***
22	40-11-22	线盘架螺母 Nut	4***
23	40-11-23	线盘架 Spool pin	4***
24	40-11-24	线盘架头螺钉垫圈 Spring washer	4***
25	40-11-25	线盘架头螺母 Washer	4***
26	40-11-26	线团防松器 Spool cushion	4
27	40-11-27	线架杆紧固螺母垫圈 Washer	2
28	40-11-28	紧固螺母弹簧垫圈 Spring washer	2
29	40-11-29	线架杆紧固螺母 Nut	2
30	40-11-30	线架杆紧固螺母垫圈 Rubber washer	2

注: 40-11-21~40-11-24 线和线条, 一并用机架/线团线架 - 31 -

12. 单针链缝机与双针相对应更换之零件  
Model one-needle high speed chainstitcher



序号 Ref. No.	件号 Part No	名称 Description	数量 Arm. Req.
1	40-12-1	附件安装板	1
2	40-12-2	压脚部件	1
3	40-12-3	送料牙	1
4	40-12-4	针板	1
5	40-12-5	弯针曲柄挡圈	1
6	40-12-6	摆动护针杆	1
7	40-12-7	固定护针杆	1
8	40-12-8	面线夹线器部件	1
9	40-12-9	面线松线爪	1
10	40-12-10	底线夹线器部件	1
11	40-12-11	底线松线爪	1
12	40-12-12	夹线器安装板	1
13	40-12-13	针杆	2
14	40-12-14	支针螺钉	1
15	40-12-15	针杆锁钩	1
16	40-12-16	针杆下村套线钩	1

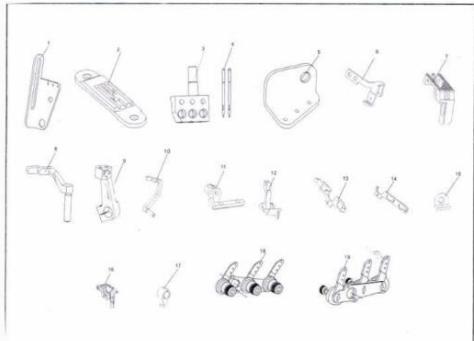
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双针双列与双针单列对应零件变化表 List of parts change

双针双列 Two-needle double-row chain stitch		双针单列 Two-needle single-row chain stitch	
针 板	Throat plate	针 板	Throat plate
左 弯 针	Left looper	左 弯 针	Left looper
右 弯 针	Right looper	右 弯 针	Right looper
压 轮 盖	Cam cover	压 轮 盖	Cam cover
卷 边 器	Filler	卷 边 器	Filler
*1 1/8"(3.2mm)			40-1-47
2 5/32"(4.4mm)			40-1-48
3 3/16"(4.8mm)			40-1-49
4 7/32"(5.6mm)	40-6-51	40-1-25	40-1-50
5 1/4"(6.4mm)			40-1-44
6 5/16"(7.9mm)			40-1-51
7 3/8"(9.5mm)			40-1-52
8 1/2"(12.7mm)			40-1-50
<b>双针单列 Two-needle double-line chain stitch</b>			
9 0	40-6-78	40-6-79	40-1-51

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15. 三针链缝机与双针机相对应更换之零件  
Model three-needle high speed chainstitcher



序号 Ref. No.	件号 Part No	名称 Description	数量 Arm. Req.
1	48-1-1	中间导线钩	1
2	48-1-2	针板	1
3	48-2-1	机针18#	1
4	48-2-2	针线过线架	1
5	48-2-3	进线杆	1
6	48-2-4-1	送料牙	1
7	48-3-1-1	摆动护针1#4	1
8	48-4-1	驱动护针1#4	1
9	48-4-2	左定位护针杆	1
10	48-4-3	固定护针杆	1
11	48-4-4	护针杆座	1
12	48-6-1	压脚组件	1
13	48-7-2	底线松线板	1
14	48-7-3	面线松线板	1
15	48-7-4	底线导线板	1
16	48-7-5	面线导线板部件	1
17	48-7-6	机针曲柄组件	1
18	48-7-7	面线夹线器部件	1
19	48-7-8	底线夹线器部件	1

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双针双列、双针单列附件一览表 List throat of & its accessories

规格 Specifications	名 称 Name	规 格 Specifications	名 称 Name
*1 1/8"(3.2mm)	右弯针	1	左弯针
2 5/32"(4.4mm)	2	5/32"(4.4mm)	3
3 3/16"(4.8mm)	3	3/16"(4.8mm)	4
4 7/32"(5.6mm)	4	7/32"(5.6mm)	5
5 1/4"(6.4mm)	5	5/16"(7.9mm)	6
6 5/16"(7.9mm)	6	3/8"(9.5mm)	7
7 3/8"(9.5mm)	7	1/2"(12.7mm)	8
8 1/2"(12.7mm)	8		
<b>双针单列 Two-needle double-line chain stitch</b>			
9 0	40-6-78	40-6-79	40-1-51

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