MAUSER
SPEZIAL

# ML8140
# Sewing Machine
# 缝纫机

## Instructions for Operating GB
## 操作说明书 CN
## Parts List GB
## 零件样本 CN


Manufacturer:ShangGong Sewing Machine (Zhe Jiang) Co., Ltd.

Address: No.1 Jichang Road(S) Jiaojiang Taizhou Zhejiang China

Postcode: 318000 Telephone: +86-576-88202041

制造商：上工缝制机械（浙江）有限公司

地址：中国浙江省台州市椒江区机场南路1号

邮编：318000 电话：+86-576-88202041



| Edition/版本 | Rev.index | Printed in China | Part No./零件号 |
|---|---|---|---|
| 1/2021 | 版本号：00. 0 | 中国印制 | 8140-100003 |

**本使用说明书内容，为了改良不经预告随时会更改，请谅解为盼。**

# 使 用 说 明

为使您正确使用本机，须对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。

1、无论您何时使用本机，须了解基本的安全事项，包括但不限于下列事项。

2、通读所有说明，并保存好使用说明书，如果需要，请随时翻阅。

3、使用本机前，必须弄清与本机有关安全规定、标准在您的国家是否适用。

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，无安全装置属违章操作，决不允许。

5、操作人员必须经过适当的培训。

6、为了您的人身安全，我们建议您戴上防护眼镜。

7、下列情况下，请关闭电源开关或拔下电源插头。

7-1机针穿线和换梭心。

7-2更换机针、压脚、针板、送料牙、布料导板等。

7-3进行维修时。

7-4操作区域无人时。

8、在机器加油润滑时，若不小心让油碰到眼睛、皮肤或咽下机油或润滑油，请立即冲洗被沾染部位或去医院检查。

9、无论机器运转与否，严禁乱动机器零部件和配套装置。

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。

11、一般的维修和检验工作应由专业受训人员进行。

12、有关电器部件的维修必须在专业电器人员或专业技术人员的指导下进行，任何电器部件一经发现受损，立即停止机器运转。

13、使用期间要定期全面彻底清洗机器。

14、正常操作本机时，必须进行试运转，工作环境远离强噪声源。

15、由电器人员选择合适的插头和有接地线的插座。

16、若需要改造或改进本机，请采用有效可行的安全措施。本公司对此产生的伤害不承担责任。

17、本机只适用于专业缝纫。

18、两种警提示符

操作人员或维修人员请注意

特别注意事项

※This book was prepared based on information available in October 2009.

# INSTRUCTION MANUAL

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

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

Please remember to keep this manual in a safe place

1. observe the basic safety measures, including,but not limited to the following ones, whenever you use the machine.
2. Read all the instructions,including,but not limited to this Instruction Manual before you use the machine,In addition,keep this Instruction Manual so that you may read it at anytime when necessary.
3. Use the machine after it has been ascertained that it conforms with safety rules/standards valid in your country.
4. All safety devices must be in position when the machine is ready for work or in operation The operation without the specified saferty devices is not allowed.
5. This machine shall be operated by appropriately-trained operators.
6. For your personal protection,we recommend that you wear safety glasses.
7. For the following,turn off the power switch of disconnect the power plug of the machine from the receptacle.
   7-1 For threading needle (s)and replacing bobbin.
   7-2 For replacing part (s) of needle ,presser foot ,throat plate ,feed dog ,cloth guide etc.
   7-3 For repair work,
   7-4 For when leaving the working place of when the working place is unattended.
8. If you should allow oil,grease, etc .used with the machine and devices to come in coutact with your eyes or skin or swallow any of such liquid by mistake,immediately wash the contacted areas and consult a medical doctor.
9. Tampering with the live parts and devices .regardless of whether the machine is powered , is prohibited.
10. Repairing,remodeing and adjustment works must only be done by appropriately trained technicians or specially skilled personnel.
11. General maintenance and inspection works have to be done by appropriately trained personnel.
12. Repair and maintenance works of electrical components shall be conducted by qualified electric technicians or under the audit and guidance of specially skilled personnel.
    Whenever your find a failure of any of electrical components ,immediately stop the machine .
13. Periodically clean the machine throughout the period of use.

14. Grounding the machine is always necessary for the nomal operation of the machine . The machine has to be operated in an enviorment that is free from strong noise sources such as high-frequency welder.
15. An appropriate power plug has to be attached to the machine by electiç technicians ,Power plug has to be connected to grouded receptacle.
16. The machine is only allowed to be used for the pupose intended.Other used are not allowed.
17. Remodel or modify the machine in accordance with the safety rules/standards while taking all the effective safety measures .We assumes no responsibility for damage caused by remodeing or modification of the machine.
18. Warning hints are marked with the two shown symbols.

Danger of injury to operator or service staff

Items requiring special attention

# 安 全 操 作 事 项

1、为避免触电，请不要打开电机的电箱盖，也不要触摸电箱内部组件。

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。
2、为尽可能避免机器运转造成的人身伤害，手指、头部和衣服应远离上轮、皮带和电机。除此之外，上轮、皮带和电机周围不要放置任何物品。
3、为避免人身伤害，当您打开电源开关或操作机器时，切勿将手放在机针下方。
4、为避免人身伤害，机器运转时，切勿将手放入挑线杆防护罩内。
5、旋梭高速运转时，勿将手指放在旋梭附近。另外，换梭心时，请关掉机器电源开关。
6、为尽可能避免人身伤害，当翘起或抬升机头时，勿将手指放入机器内部。
7、为尽可能避免机器的突然启动所造成的事故，抬起机头或移动皮带罩和皮带时，请关掉机器的电源。
8、如果你的机器配用伺服电机，机器未运转时，电机无噪声。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。
9、为避免触电，移动电源线时，请勿让机器运转。
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。

# FOR SAFE OPERATION

1.To avoid electrical shock hazards,neither open the cover of the electrical box for the motor nor touch the components mounted inside the electrical box.

1. To avoid personal injury ,never operate the machine with any of the belt cover, finger guard of safety devices removed.
2. To prevent possible personal injuries caused by being caught in the machine. keep your fingers ,head and clothes away from the handwheel, cover and the motor while the machine is in operation. In addition,place nothing around them.
3. To avoid personal injury,never put your hand under the needle when you turn "ON" the power switch or operate the machine.
4. To avoid personal injury,never put your fingers into the thread take-up cover while the machine is in operation.
5. The hook rotates at a high speed while the machine is in operation.To prevent possible injury to hands ,be sure to keep your hands away from the vicinity of the hook during operation.In addition,be sure to turn OFF the power to the machine when repplacing the bobbin.
6. To aviod possible personal injuries ,be careful not to allow your fingers in the machine when tiling/raising the machine head.
7. To avoid possible accidents because of abrupt start of the machine,turn OFF the power to the machine when tiling the machine head.
8. If your machine is equipped with a serve-motor,the motor does not produce noise while the machine is at rest.To avoid possible accidents due to abrupt start of the machine ,be sure to turn OFF the power to the machine .
9. To avoid electrical shock hazards,never operate the sewing machine with the ground wire for the power supply removed.
10. To prevent possible accidents because of electric shock or damaged electrical component(s),turn OFF the power switch in prior to the connection/disconnecti on of the power plug.

# 目　　录
# CONTENTS


1、开车前的注意事项 BEFORE OPERATION ····· 2
2、使用注意事项 OPERATION PRECAUTIONS ····· 2
3、主要技术规格 CHIEF TECHNICAL SPECIFICATIONS ····· 3
4、机器的安装 INSTALLATION ····· 3
5、机器的润滑 LUBRICATION ····· 4
6、旋梭油量调节 ADJUSTING THE AMOUNT OF OIL(OIL SPLASHES)IN THE HOOK ····· 4
7、机针的装法 ATTACHING THE NEEDLE ····· 6
8、梭心的装法 SETING THE BOBBIN INTO THE BOBBIN CASE ····· 6
9、面线的穿法 THREADING THE MACHINE HEAD ····· 7
10、底线的绕法 WINDING THE BOBBIN ····· 7
11、针距的调节 ADJUTING THE STITCH LENGTH ····· 7
12、线架的装法 INSTALLING THE TIIREAD STAND ····· 8
13.1、定刀和移动刀的更换（旋刀） REPLACE THE COUNTER KNIFE AND MOVING KNIFE(ROUND KNIFE) ·· 8
13.2、剪线装置的调整（旋刀） ADJUSTING THE THREAD TRIMMING EQUIPMENT(FIG 17.2)(ROUND KNIFE) ·· 9
14、膝提高度的调节 ADJUSTING THE HEIGHT OF THE KNEE LIFTER ····· 10
15、踏板操作 PEDAL OPERTION ····· 10
16、缝线张力 THREAD TENSION ····· 11
17、挑线簧调节 THREAD TAKE-UP SPRING ····· 12
18、压脚扳手 HAND LIFTER ····· 12
19、压脚压力的调节 PRESSER FOOT PRESSURE ····· 13
20、送料相位的调节 ADJUSTING THE FEED TIMING ····· 13
21、送料牙的倾斜（旋刀） TILT THE FEED DOG (ROUND KNIFE) ····· 14
22、送料牙的高度（旋刀） HEIGHT OF THE FEED DOG (ROUND KNIFE) ····· 14
23、针与旋梭的关系 NEEDLE-TO-HOOK RELATIONSHIP ····· 15
24、压脚高度的调节 ADJUSTNG THE HEIGHT OF THE PRESSER BAR ····· 15
25、挑线杆挑线量的调节 COUNTER KNIFE ····· 15
26、停针位置的调整 ADJUSTING THE THREAD TAKE -UP STROKE ····· 16
27、踏板压力与行程 ADJUSTING THE NEEDLE STOP POSITION ····· 17
28、踏板的调整 PEDAL PRESSURE AND PEDAL STROKE ····· 17
29、手触倒缝装置 ADJUSTMENT OF THE PEDAL ····· 18
30、针板组件的安装 NEEDLE PLATE INSTALLATION ····· 18
31、切刀的操作与安装 OPERATION AND INSTALLATION OF CUTTER ····· 18
32、排屑孔盖板的使用 USAGE OF CLEARANCE HOLE COVER ····· 19
33、其他切刀规格零件的更换 CHANGE OF DIFFERENT CUTTER SPECIFICATION PARTS ····· 20

## 1. 开车前的注意事项 BEFORE OPERATION

1、机头装箱前为了防止机件生锈，各部分均涂有较厚的防锈油脂，同时机头装箱后，还可能在较长的贮藏和长途运输阶段造成油脂硬化和积聚在机器表面的灰尘，所以必须将表面的油脂和灰尘用汽油和洁净的软布拭擦干净。

2、机器出厂时，虽经过周密的检查和试验，但在长途运输中也可能受到强烈的震动使机件松动或歪曲，所以应该作一次周密的检查，并用手转动主动轮，看机件之间有无转动困难，碰撞现象或其它不均匀的阻力，不正常的声响，如有应作适当的调整，机器状态正常后才可正式试车。

3、油盘内机油液机高度没在正常范围内绝不能开车。

4、机器运转时，上轮转向应该是逆时针方向（从上轮外侧面看）。

5、确认电机标牌上所标电压及相位是否正确。

6、生产日期见合格证。

1. In order to resist rust before machine head packing,all parts are smeared with thick rust-resist ant oil.After packing,perhaps in a relativey long storage and transportation period,the oil will harden and absorb dusts.Therefore,it's necessary to clean the oil and dusts with neat soft cloth and gasoline.
2. The machine are examined and checked thoroughly before leaving the factory.But in a long jouney, the machine may be shaken intensely and some parts become loose. it's advisable to test again and turn the driving gears with hands so as to make sure if turning is difficult,run foul of each other or if there is non-uniform block or irregular voice.If so,the machine should be adjusted until every part is normal before driving.
3. Operation are forbidden before pouring oil in the plate.
4. When the machine is in operation,the direction of the upper wheel are anti-clockwise(viewing from the outer part of the upper wheel).
5. Confirom the given electric voltage and phase on motor nameplate.
6. The date of manufacture is shown on the inspection certification.

## 2. 使用注意事项 OPERATION PRECAUTIONS

1、当接通电源或机器运转时，请勿将手与机针接触。

2、机器运转时，请勿将手指伸入挑线杆护罩内。

3、操作者用手送料时，请勿将手指伸入护针架。

4、机头翻动及拆后盖时，一定要切断电源。

5、操作者离开机器时，必须切断电源。

6、机器运转时，注意不允许任何人的头或手以及任何东西靠近上轮、后盖、绕线器。

7、只有在停机时，才能装卸防护罩、或其他保护装置。

8、不能用香蕉水等油漆稀释剂擦洗机头表面。

1. When the power supply is open or the machine is operating ,don't touch the machine needle with your hands.
2. When the machine is running ,don't stretch your hands in the mat of the thread stitch bar.
3. When the machine head is turning and the "V" belt is being disassembled,the electric supply should be cut off.
4. When the operator is leaving the machine,cut out the power supply.
5. When the machine is running,no heads,hands or any other things are allowed to get close to the uper wheels,"V"belts bobbin winder and motor.
6. Not until the machine stops running can you disassemble the belt cover,protection cover or other protecting devices?
7. The machine head's surface can't be cleaned with dilutes such as banana oil.
8. Don't put your finger into the finger guard when you feed material by hand.

## 3. 主要技术规格 CHIEF TECHNICAL SPECIFICATIONS

| 规格 \ 型号 | | 带刀直驱缝纫机 |
|---|---|---|
| 缝料 | | 薄料至中厚料 |
| 最高转速（rpm） | | 4500 |
| 最大针距（mm） | | 5 |
| 机针 | | DBX1 #14 |
| 压脚提升高度 | 手控（mm） | 6 |
| | 膝控（mm） | 13 |
| 润滑系统 | | 自动 |
| 润滑油 | | 10号白油 |
| 电机功率 | | 220伏/500瓦 |

| Specifications \ Modle | Provided with cutter and direct drivewith motor of sewing machine |
|---|---|
| Sewing material | Light –middle thick materials |
| Sewing speed(Max) | 4500rmp |
| Maximum stitch length | 5mm |
| Needle | DBX1 #14 |
| Pressure foot liftting high | 6mm(standard) 13mm(max) |
| Lukr Cant System | Automatism |
| Lukr Cant Oil | #10 White oil |
| Motor Power | 220v/500w |

## 4. 机器的安装（图1、图2、图3、图4）
## INSTALLATION (FIG. 1,FIG.2,FIG.3,FIG.4)

### 1. 油盘安装

1）油盘应放置在台板凹槽四角。

2）将两只机头坐垫①安装在油盘③的A边（朝操作者一边），将两只油盘支座②安装在油盘③的B边（用机头连接钩接合一边），然后放上油盘③（图1、图2）

3）将机头连接钩①插入底板销孔内、与台板的机头连接钩座②相嵌合再把机头放到油盘四只角的坐垫上。（图3、图4）

### 1.fixing oil tray

1) Oil tray should be put at the four corners of the slot in table plate.

2) Fix two arm cushion"1"to the "A"side of oil tray"3"(facing the operator). fix the two stand bases"2"to the "B"side of oil tray "3"(hinge side), then fix the oil tray"3"(picture1,picture2).

3) Plug the hinge "1"into hole of bed plate,put the machine head on the table plate,hinge at the sink place and then fix the machine head on cushions of the four oil tray corners(picture3,picture4).

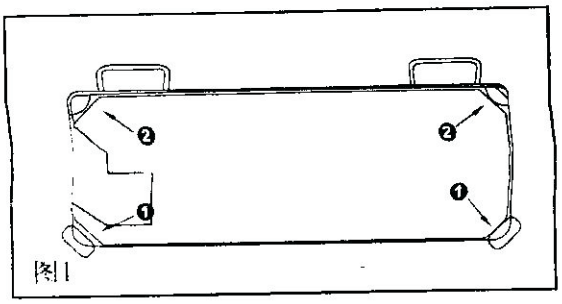


图1

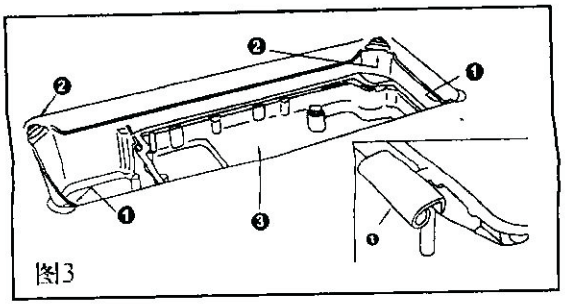


图3

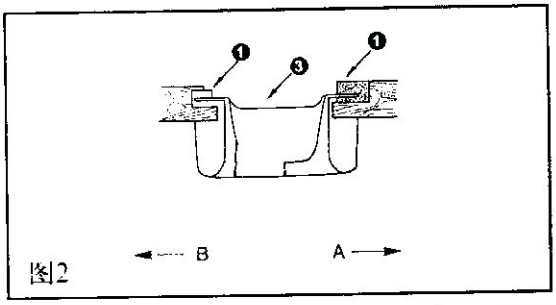


图2

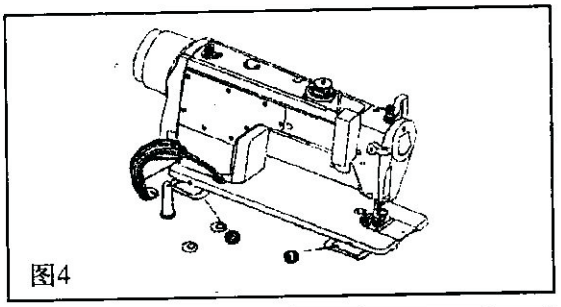


图4

## 5. 机器的润滑（图5、图6） LUBRICATION (FIG.5)

### 1. 润滑须知：

1). 向油盘①注入缝纫机油（10号白油）至HIGH记号A。
2). 当油面低于LOW记号B，应再加油。
3). 加油后，开动机器，应看到油液飞溅到油窗②上，说明润滑正常。
4). 至于飞溅的油量多少与总润滑油量多少无关。

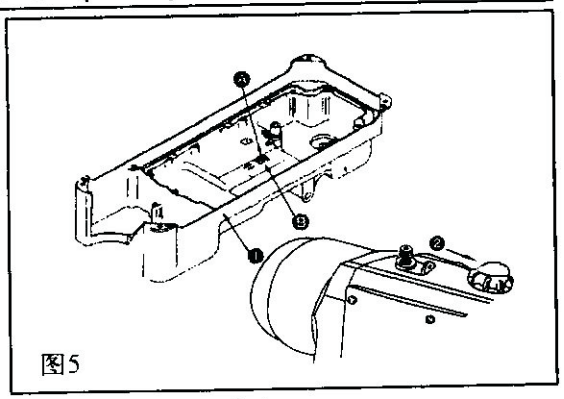


图5

1. Information on lubrication(Fig.5)

1) Fill oil pan①with sewing machine oil (10 white oil)up to HIGH mark A.
2) when the oil level lowers below LOW mark B,refill the oil pan with the specified oil.
3) when you operate the machine after lubrivcation,you will see splashing oil through oil sight window②if the lubrication is adequate.
4) Note that the amount of the splashing oil is unrelated to the amount of the lubricating oil.

*Precaution

when you first operate your machine after set up or after an extended period of disuse,run your machine at 2,000 sp.m to 2,500s.p.m for about 10 minutes for the purpose of break-in.

## 6. 旋梭油量调节（图6、图7、图8） ADJUSTING THE AMOUNT OF OIL (OIL.SPLASHES) IN THE HOOK (FIG.6.7.8)

### 1. 调节前的注意事项

1). 未使用的机器应进行约3分钟的空转（适当的断续运转）。
2). 油量纸必须在机器运转状态下插入。
3). 确认油盘内的油面高度处在HIGH和LOW范围内。
4). 油量确认时间需5秒钟（请用秒表计时）。

## 2. 适当的油量标样：

1）.下图标样根据不同的缝制工序需进行增或减的微调整，但应注意不要增加或减少过多。油量过少会引起旋梭发热，油量过多会油污缝料。

2）.用三张油量纸试用三次，调节旋梭油量，直至纸上油迹不发生变化为止。

## 3. 调节旋梭油量：

1）.将下轴前轴套上的油量调节螺钉朝+方向A转动时，油量将增大。当油量调节螺钉朝-方向B转动时，油量将减小。

2）.调整后应进行约30秒钟的空转，以确认油量状态。

1. Notice before adjustment:

1) The unexpended machine should run without material for around 3 minutes.(or suitable running now and then ).

2) Plug in the oil amount paper only when the machine is running.

3) Make sure the oil height in the oil plate ranges between HIGH and LOW.

4) The confirming time of the oil amount is 5 seconds (by manual time -keeping).

2. Appropriate oil amount sample:

1) In the following sample figures,tiny adjustments may be considered according to different sewing process but not too much oil may cause the warming of spinning shuttle and contaminate the material.

2) Try the oil amount paper three times and adjust the oil amount of the spinning shuttle until the oil trail on the paper is stable.

3. Adjust the oil amount of the spinning shuttle:

1) Turning the oil adjusting screw of the front shaft sleeve on bottom shaft towards + direction A, the oil amount will increase ,and towards -direction B,the oil amount will decrease.

2) After adjustment without material for 30 seconds to confirm the condition of the oil amount.

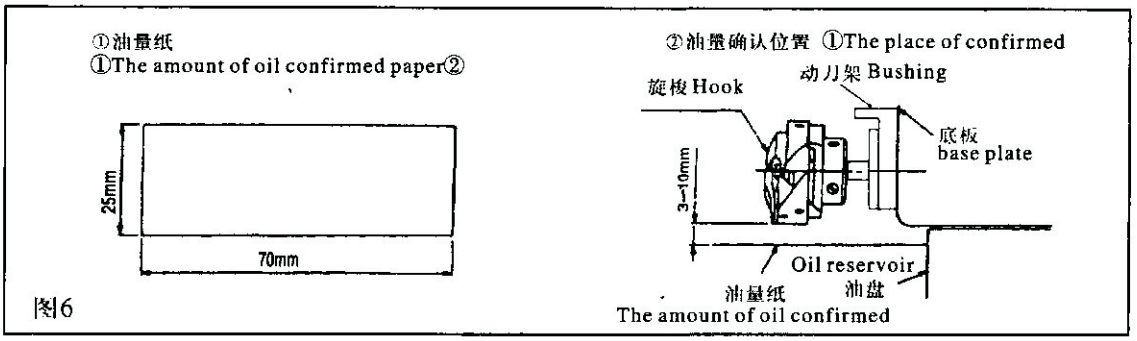


图6

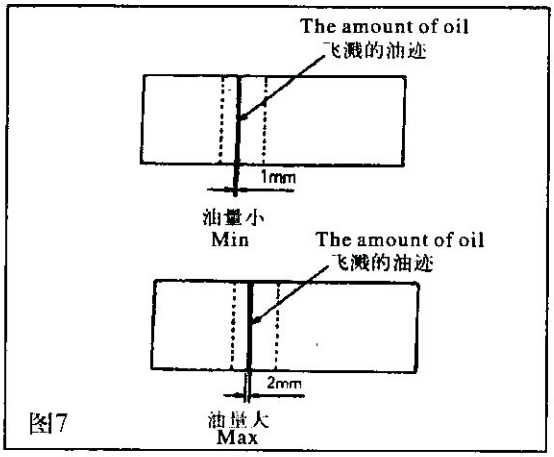


图7

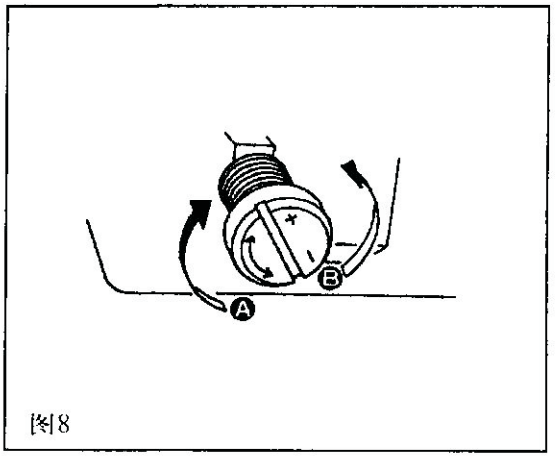


图8

## 7. 机针的装法（图9）ATTACHING THE NEEDLE (FIG.9)

注意：在装机针前，必须切断电动机的电源。机针有各种编号，根据所用线的粗细和缝料来选择适当的机针。

1). 转动上轮使针杆上升到最高位置。
2). 旋松支针螺钉②，使机针①的凹弧部分A正对右方向B。
3). 将机针朝箭头方向插入针孔的底部，直至插不进为止。
4). 旋紧支针螺钉②。
5). 务必使机针的长槽C正对左方向D。

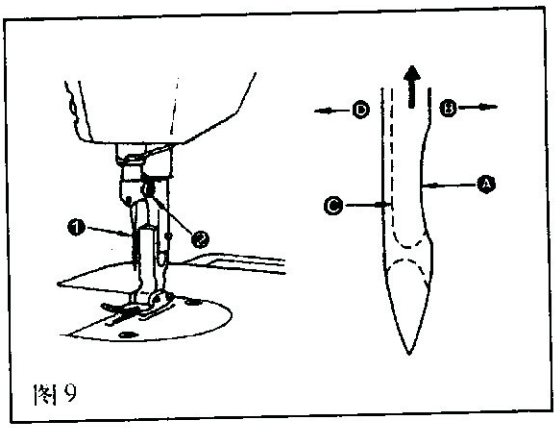


图9

* Turn the motor power OFF before starting to attach the needle.
Select a proper needle size accroding 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. highest point of its stroke.
2) loosen screw②,and hold needle①with its indented part A facing exactly to the right in direction B.
3) Insert the needle in the direction of the arrow until it will go no furtner.
4) Securely tighten screw②.
5) Check that long groove C of the needle is facing exactly to the left in direction D.

## 8. 梭心的装法(图10) SETTING THE BOBBIN INTO THE BOBBIN CASE (FIG.10)

1). 拿出梭子，将梭心装入梭子内。
2). 将线从梭子上的线槽A中穿过，朝B方向拉出这样，线通过夹线簧下从线孔B处引出。
3). 拉底线C时，梭心应按箭头方向转动。

1) Hold the bobbin in a way that the thread open end is dircted to the right as observed from you, and set the bobbin into the bobbin case.
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.

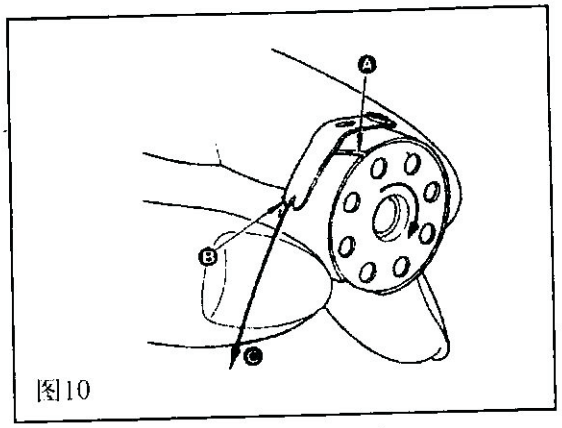


图10

## 9. 面线的穿法(图11) THREADING THE MACHINE HEAD (FIG.11)

穿面线时针杆应在最高位置，然后由线架上引出线头按如图示顺序穿线。

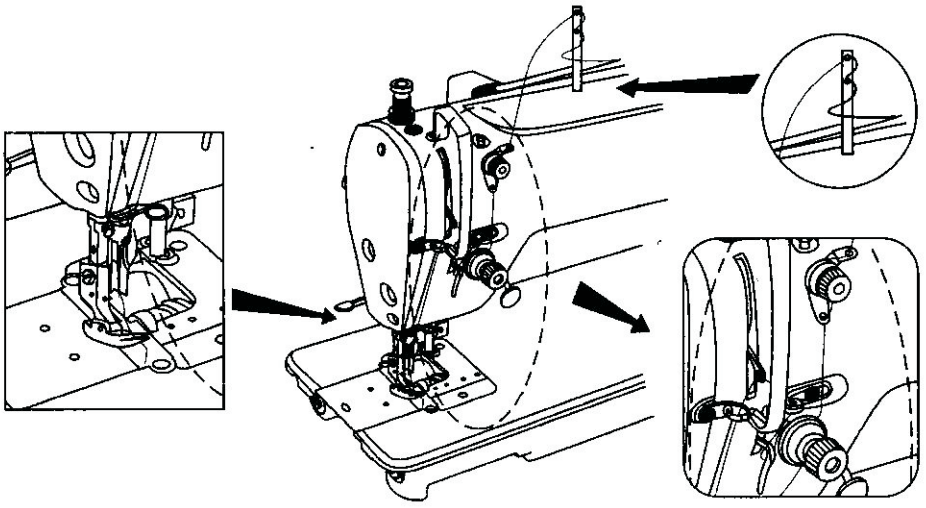


图11

## 10. 底线的绕法(图12) WINDING THE BOBBIN (FIG.12)

底线卷绕时，线的穿法及切线如图13所示。

Thread the bobbin winder and wind the bobbin thread onto the bobbin illustrated in the figure 13.

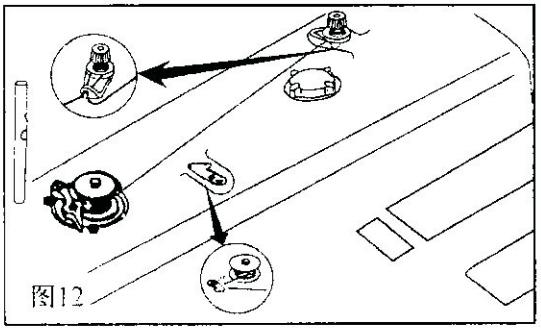


图12

## 11. 针距的调节(图13) ADJUSTING THE STITCH LENGTH (FIG.13)

1). 将送料距旋钮①朝箭头方向转动，旋至所需数字对准机壳上的刻点A

2). 旋钮上的刻度数字用毫米表示。

3). 当你向缩短线迹长度时，把倒送料扳手②朝箭头方向压的同时，转动送料距旋钮。

1) Turn stitch length dial ①in the direction of the arrow, and align the desired number to marker dot Ⓐ on the machine arm.

2) The dial calibration is in millimeters.

3) When you want to decrease the stitch length, turn stitch length dial ① while pressing feed lever ② in the direction of the arrow.

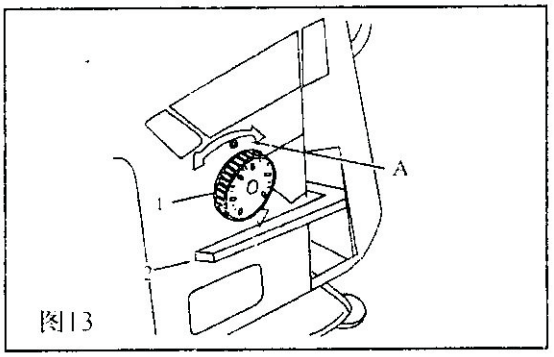



图13

## 12. 线架的装法（图14）INSTALLING THE THREAD STAND (FIG.14)

1). 安装线架部件，并将它插入缝纫机台板孔里。

2). 旋紧线架杆下节螺母①固定线架装置。

1). Assemble the thread stand unit,and insert it in the hole in the machine table.

2). Tighten locknut① to fix the thread stand.

3). For ceiling wiring, pass the power cord through spool rest rod②

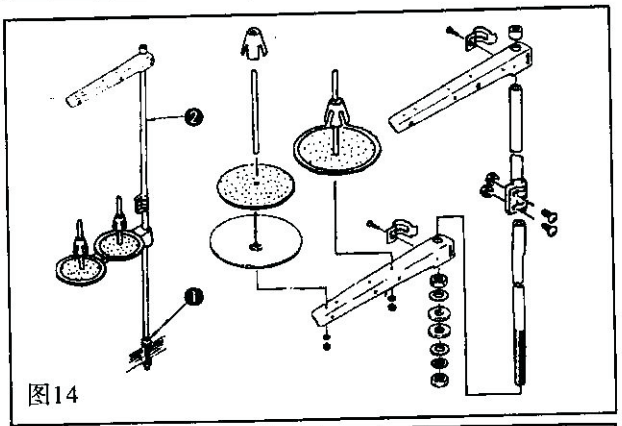


图14

## 13.1. 定刀和动刀的更换（图15、图16、图17.1（旋刀）REPLACE THE COUNTER KNIFE AND MOVING KNIFE(FIG15,FIG16,FIG17.1)

### 1. 定刀的拆卸方法

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

*切线不良时请磨定刀④（如图16）

### 2. 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. 将刀轴连杆⑦按箭头方向用手推动，停在沉头螺钉⑧显露的位置
5. 拆下沉头螺钉⑧，取下移动刀⑨

注1）拆针板⑥及动刀⑨时请先取下机针。

注2）组装按相反的顺序进行。

1. The method of tearing down the couter knife

1). Put down the sewing machine
2). Take down the screw① and positioning finger②
3). Take down the screw③ and counter knife④(Fig.16)

* Please the grinding the counter knife when it is not good for cutting thread

2. The method of tearing down the moving knife

1). Lifting the preser foot for using hand lifter
2). Take down the screw⑤,put down the needle plate⑥
3). Turn the wheel and stop the needle bar ni its highest posttion
4). Drive the knife link⑦as illustrated by the arrows,and stop to the position when screw⑧is unfolded
5). Take down the screw⑨and noving knife

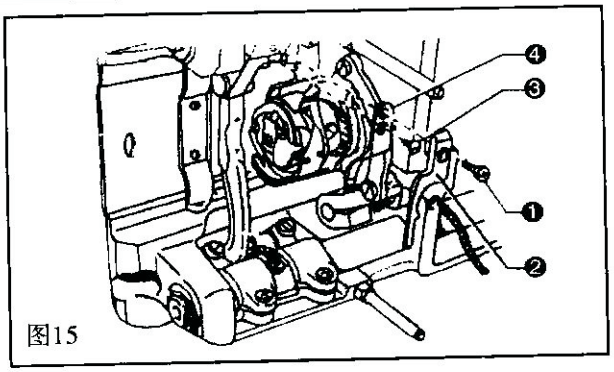


图15

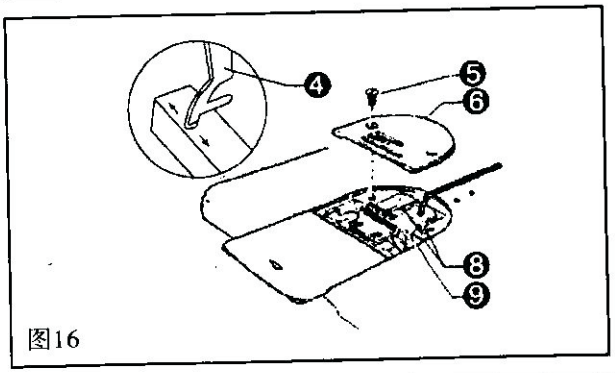


图16

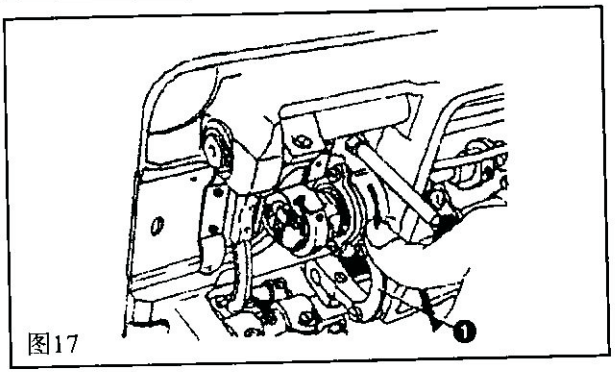


图17

Attention:

1). Please take down the needle before removing the needle plate and moving knife

2). Assemble by reversing sequence

## 13.2. 剪线的装置的调整（图17.2）（旋刀）
## ADJUSTING THE THREAD TRIMMING EQUIPMENT(FIG17.2)(ROUND KNIFE)

（一）剪线凸轮位置的调节

转动缝纫机的上轮，当针杆从最低位置上升5mm时，用手压剪线电磁铁④使滚珠接触剪线凸轮①的凹部，然后用定位螺钉②临时紧固。然后把剪线电磁铁④返回原来的位置（离开位置），同时旋松定位螺钉②调整剪线凸轮①，使凸轮端面和切线驱动轴端面之间的间隙为0.5mm。（以40kg.cm的扭矩拧紧定位螺钉②）

（二）移动刀，定位刀位置的调整

当切线驱动轴③的头部超过剪线凸轮时，定刀⑧的前端和动刀⑦的刀刃部应当啮合0.2-0.5mm。当不啮合时，在切线驱动轴超过剪线凸轮①的情况下移动刀轴连杆⑥，使定刀⑧的前端和动刀7的刀刃部相啮合，然后拧紧螺钉⑤。

(一) Adjusting the position of the thread trimmng cam.

If you run the handwheel of the machine, the needle bar goes from the bottom up to 5mm, then the thread trimming solenoid ④ is pressed to impel the roller ball touchs to the concave of the thread trimming cam ①,Then use the position screw ② to tighten it in casual. And then replace the thread trimming solenoid ④,while loose the screw ② to adjust the cam ①, the clearance of the end plane between the cam and thread trimming driving shaft is 0.5mm.(Use the torion with-40kg.cm to tighten the position screw ②)

(二) Adjusting the position of the counter knife and moving knife..

When the head of the thead trimming driving shaft ③ exceeds the cam, the mesh between the front plate of the counter knife ⑧ and the edge of the moving knife ⑦ is 0.2-0.5mm. If they are not meshed,moves the knife shaft crack rod ⑥ before the thread trimming driving shaft exceeded the cam ①,the front plane of the counter knife ⑧ and the edge of the moving knife is meshed, then tighten the screw ⑤.

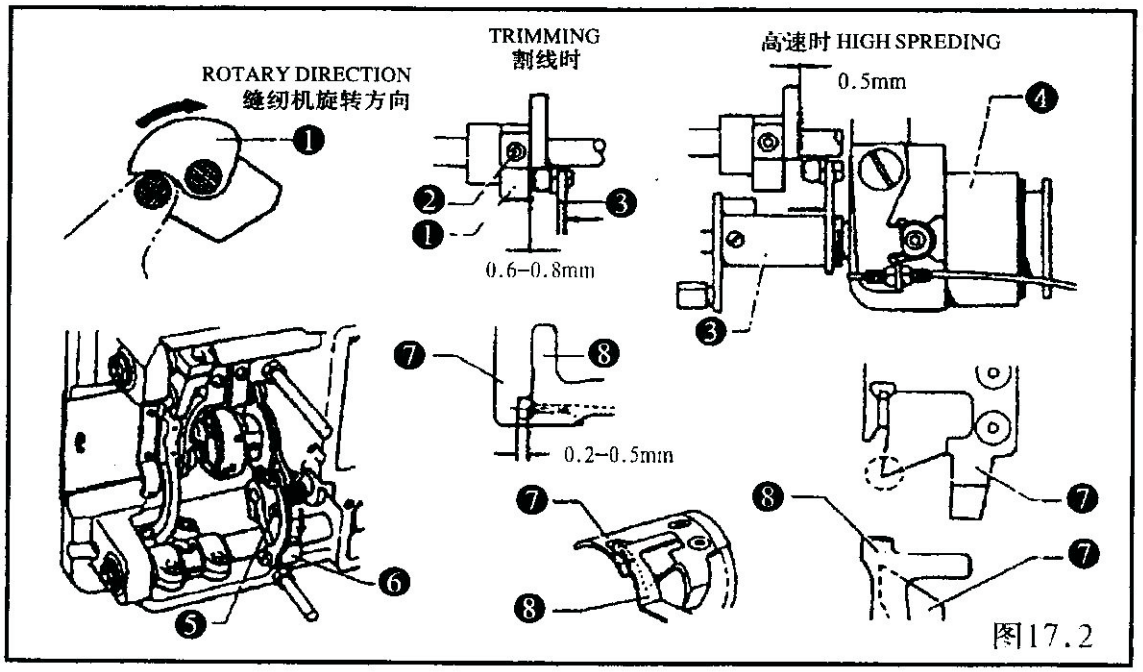


图17.2

## 14. 膝提高度的调节（图18、图19）
## ADJUSTING THE HEIGHT OF THE KNEE LIFTER (FIG.18,19)

1). 用膝提时的标准压脚高度是10毫米

2). 用膝提调整螺钉①可以调节压脚提升量至13毫米。

3). 当压脚提升超过10毫米时，不能使处于最低位置的针杆②底端与压脚③相碰。

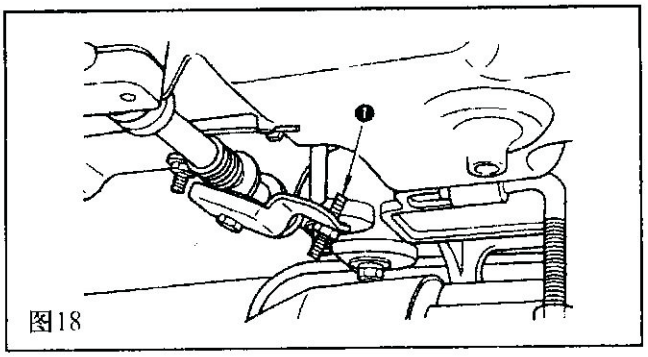


图18

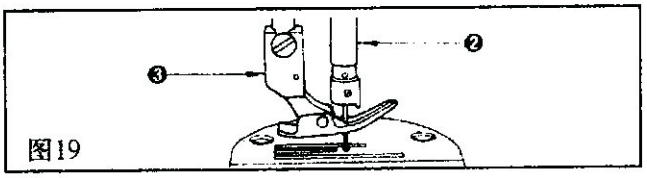


图19

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 13mm using knee lifter adjust screw ①.( The max. lift shoud be 9 mm for the A type.)

3) When you have adjusted the presser foot lift to over 10 mm, be sure that the bottom end of needle bar ② in its lowest position does not hit presser foot ③.

## 15. 踏板操作（图20）PEDAL OPERATION (FIG.20)

踏板分四个阶段操作：

1）. 将踏板朝前轻踏，则低速缝纫

2）. 进一步朝前踏，就是高速缝纫（图示A）

3）. 当踏板恢复到原始状态时，机器停止运转（上停针或下停针）。（图示C）

4）. 将踏板朝后踏，执行剪线动作。（图示D）

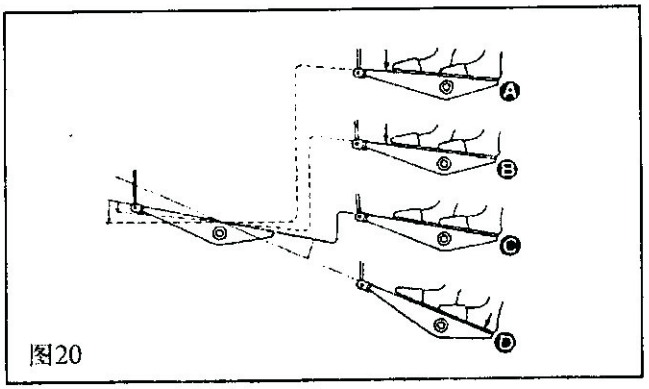


图20

*在执行高速缝纫或低速缝纫时，将踏板朝后踏，剪线动作能正常执行。

*机器开始剪线后，即时将踏板回复到中间位置，剪裁动作也能完成。

*当机器停止，针处于下针位状态时，如果要使处于上针位，请将踏板朝后踏一次。

*若机器安装自动抬压脚机构，当机器停止后，延时2-3秒，再将踏板朝后踏一次，则压脚自动抬起。踏板复位，则压脚自动放下。

1. The pedal is operated in the following four steps:

1) The machine runs at low sewing speed when you lightly depress the front part of the pedal Ⓑ.

2) The machine runs at high sewing speed when you further depress the front part of the pepal Ⓐ.

3) The machine stops(with its needle up or down) when you reset the pepal to its original position Ⓒ.

4) The machine trims threads when you fully depress the back part of the pedal Ⓓ.

* 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 once.

* If the machine is fixed with the automatic liftting pressure foot stucture.after stopped the machine and delayed two or three seconds,then thrample the threadle backward once,so the pressure foot will lift automatically when the threadle reback,the pressure foot will be down automaticaly.

## 16. 缝线张力（图21） THREAD TENSION (FIG.21)

### 1. 面线张力的调节：

1). 若将上夹线螺母①朝顺时针方向(即A方向)转动时，剪线后，留在针孔处线的长度就会短些。

2). 若朝逆时针方向（即B方向）转动时，则线会长些。

3). 若将夹线螺母②朝顺时针方向（即C方向）转动时，面线张力将增大。

4). 若朝逆时针方向（即D方向）转动时，面线张力将减小。

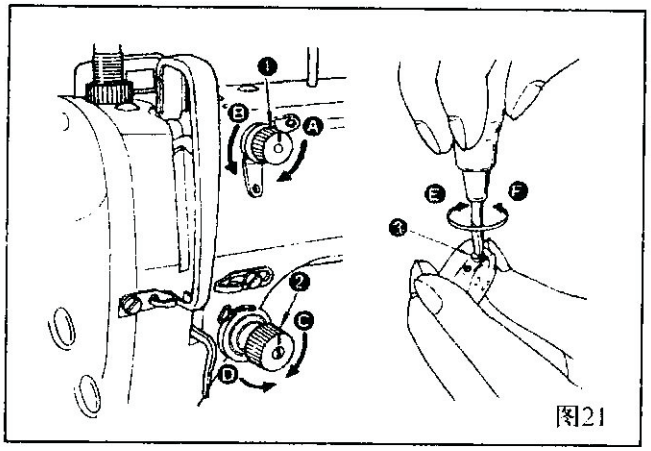


图21

### 2. 底线张力的调节：

1). 若将梭子上底线张力调节钉③朝顺时针方向（即E方向）动时，底线张力将增大。

2). 若朝逆时针方向（即F方向）动时，底线张力减小。

1. Adjusting the needle thread tension

1) As you turn thread tension No.1 nut ① clockwise (in direction Ⓐ). The thread remaining on the needle (in direction Ⓐ). The thread remaining on the needle after thread trimming will be shorter. after thread trimming will be shorter.

2) As you turn nut ① counterclockwise(in direction Ⓑ), the thread length will be longer.

3) As you turn thread tension No.2 nut ② clockwise (in direction Ⓒ),the needle thread tension will be in creased.

4) As you turn nut ② counterclockwise(in direction D ), the needle thread tension will be decreased.

2. Adjusting the bobbin thread tension

1) As you turn tension adjust screw ③ clockwise(in direction Ⓔ ), the bobbin thread tension will be increased.

2) As you turn screw ③ counterclockwise(in direction Ⓕ ), the bobbin thread tension will be decreased.

## 17. 挑线簧调节（图22）THREAD TAKE-UP SPRING (FIG.22)

### 1. 改变挑线簧①的摆动量：

1). 旋松定位螺钉②。
2). 把夹线螺钉③朝顺时针方向（即A方向）转动时，挑线簧的摆动量将增大。
3). 把夹线螺钉朝逆时针方向（即B方向）转动时，挑线簧的摆动量将减小。

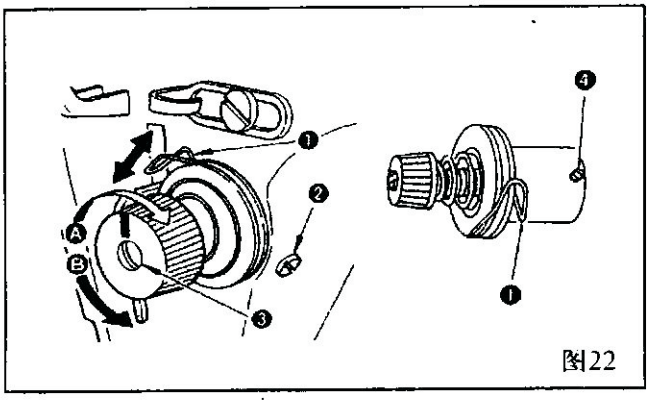


图22

### 2. 改变挑线簧①的张力：

1). 旋松定位螺钉②,并转动夹线螺钉③。
2). 旋松定位螺钉④。
3). 把夹线螺钉③朝顺时针方向（即A方向）转动时，挑线簧的张力将增大。
4). 把夹线螺钉③朝逆时针方向（即B方向）转动时，挑线簧的张力将减小。

1.Changing the stroke of thread take-up spring①
1)Loosen setscrew②.
2)As you turn tension post ③ clockwise(in direction Ⓐ), the stroke of the thread take-up spring will be increased.
3)As you turn the knob countenclockwise(in direction Ⓑ)the stroke will be decreased.
2. Changing the pressure of thread take-up spring①
1)Loosen setscrew②, and remove tension post ③
2)Loosen setscrew④
3)As you turn tension post ③clockwise(in diretion Ⓐ), the pressure will be increased.
4)As you turn the post counterclockwise(in diretion Ⓑ), the pressure will be decreased.

## 18. 压脚扳手（图23） HAND LIFTER (FIG.23)

1). 停车后，将压脚扳手①朝A方向转动，使压脚抬起。
2). 压脚的抬起量约为5.5毫米。
3). 当压脚扳手①朝B方向转动时，压脚将放回原来的位置。
4). 对膝提压脚而言，压脚的抬起量约为10毫米，最大抬起量约为13毫米。

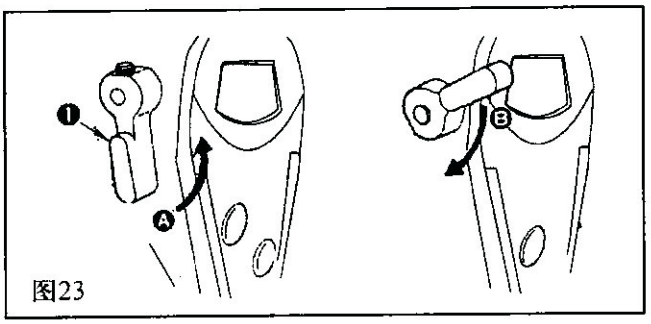


图23

1) To stop the machine with its presser foot up, turn hand lifter ① in direction Ⓐ.
2) The presser foot will go up about 5.5mm and stop.
3) The presser foot will go back to its original position when hand lifter is turned down in direction Ⓑ.
4) Using the knee lifter, you can get the standard pres-ser foot lift of about 10mm and the maximum lift of about 13mm.

## 19. 压脚压力的调节（图24）PRESSER FOOT PRESSURE(FIG.24)

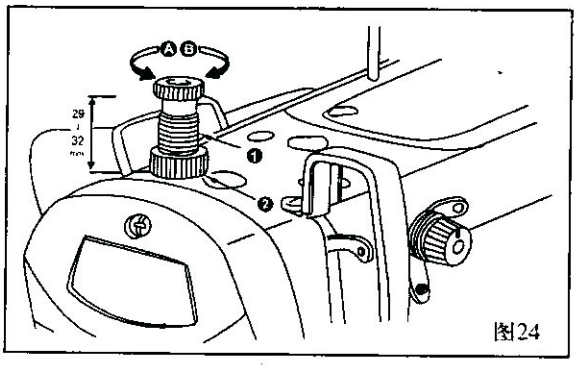


图24

1）旋松调压螺母②。顺向（即A方向）转动压脚调节螺钉，压力将增强。
2）逆向（即B方向）转动压脚调节螺钉，压力将减弱。
3）调节后，旋紧调压螺母②。
4）对一般布料而言，压脚调节螺钉的标准高度为29～32毫米（5公斤）左右。

1). Loosen nut ②. As you turn presser spring regulator①clock wise(in direction Ⓐ),the presser foot pressure will be increased.
2). As you turn the presser spring regulator counterclock wise (in direction Ⓑ), the pressure will be decreased.
3). After adjustment, tighten nut②
4). For general fabrics,the standard height of the presser spring regulator is 29 to 30mm(5kg).

## 20. 送料相位的调节（图25） ADJUSTING THE FEED TIMING (FIG.25)

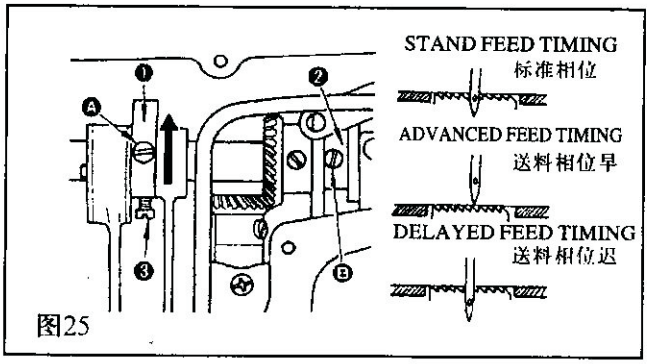


图25

1）在标准相位情况下，将送料偏心轮①的定位螺钉A与上轴挡圈②的定位螺钉B对齐。
2). 调整时，旋松送料偏心轮上两个定位螺钉③，将送料偏心轮调到适当的位置上，然后拧紧定位螺钉。
3). 为了防止缝料的潜移，要加快送料相位，可将送料偏心轮朝箭头方向调整。
4). 为了增大线迹的紧密度，要减慢送料相位，可将送料偏心轮朝箭头相反方向移动。
5). 千万小心不要将送料偏心轮移动得太多，不然的话，会造成断针现象。

1)To obtain the standard feed timing align setscrew Ⓐ on feed eccentric cam① with setscrewⒷon main shaft thrust collar②.
2)To make adjustment,loosen two setscrews③to release the feed eccentric cam, properly position the eccentric cam. Then retighten the setscrews.
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 opposit direction for the arrow.
5)Be careful not to move the feed eccentric cam too far, or elae need breakage may result.

## 21. 送料牙的倾斜（图26.1）（旋刀）
## TILT THE FEED DOG (FIG.26.1) (ROUND KNIFE)

1). 为了防止浮线，要送料方向高，则旋松固定螺钉，用螺丝刀从A孔处把牙架销朝箭头方向移动90度。

2). 为了防止缝料的潜移；要送料方向低，则牙架销朝箭头相反方向转动90度。

*注意

无论什么时候，调节送料牙的倾斜，送料牙的高度将会变化。所以，在调整之后，请再次确认送料牙的高度。

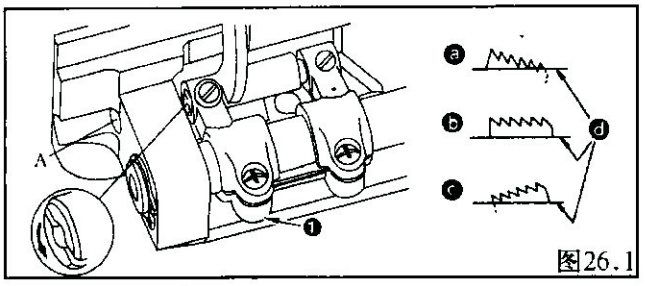


图26.1

a 前面高　b 标准　c 前面底　d 针板
ⓐFront up ⓑ Standard ⓒFront down ⓓ Throat plate

1) The standard tilt (horizontal) of the feed dog is obtained when marker dotⒶon the feed bar shaft is aligned with marker dot Ⓑ on feed rocker ①.

2) To tilt the feed dog with its front up in order to prevent puckering, loosen the setscrew, and turn the feed bar shaft 90 degrees in the direction of the arrow.using a screw driver.

3) To tilt the feed dog with its front down in order to prevent uneven material feed,turn the feed bar shaft 90 degrees in the oppostite direction from the arrow

(Precaution) Whenever the feed dog tilt is adjusted, the feed dog height will be changed, So, it is necessary to check the feed dog height after tilt adjustment.

## 22. 送料牙的高度（图27.1）（旋刀）
## HEIGHT OF THE FEED DIG (FIG.27.1) (ROUND KNIFE)

1). 送料牙一般应比针板高出0.75-0.85毫米。厚料应高出1.15-1.25毫米。

2). 送料牙高度的调节：

(1) 旋松抬牙叉形曲柄①的紧固螺钉②。

(2) 上下移动牙架进行调节；

(3) 旋紧曲柄螺钉②。

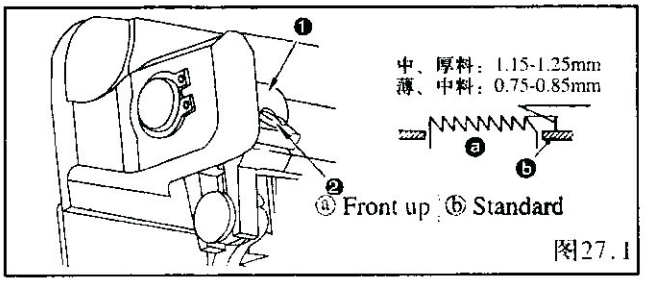


图27.1

a 送料牙　b 针板
a .Feed　b. Throat plate

1) The standard tilt (horizontal) of the feed dog is obtained when marker dotⒶon the feed bar shaft is aligned with mar-ker dot Ⓑ on feed rocker ①.

2) To tilt the feed dog with its front up in order to prevent puckering, loosen the setscrew, and turn the feed bar shaft 90 degrees in the direction of the arrow.using a screw driver.

3) To tilt the feed dog with its front down in order to prevent uneven material feed, turn the feed bar shaft 90 degrees in the oppostit e direction from the arrow (Precaution) Whenever the feed do tilt is adjusted, the feed dog height will be changed, So, it is necessary to check the feed dog height after tilt adjustment.

## 23. 针与旋梭的关系（图28）
## NEEDLE-TO-HOOK RELATIONSHIP (FIG.28)

针与旋梭的关系应配合如下：

1). 转动上轮，使针杆位于最低点，再旋松针杆连接柱定位螺钉①；

* 针杆高度的确定。

2). 使针杆②上的刻线A对准针杆下衬套③的下端，然后旋紧针杆连接柱定位螺钉①。

* 旋梭位置的确定。

3). 旋松两只旋梭定位螺钉，并转动上轮，使针杆②的下刻线B对准针杆下衬套③的下端。

4). 在上述状态下，使旋梭的勾线尖⑤对准机针④的中心，针与旋梭的间隙为0.04–0.1 mm，然后拧紧旋梭紧固螺钉。

* 旋梭原来用什么型号，调换后，也请使用原来的型号。

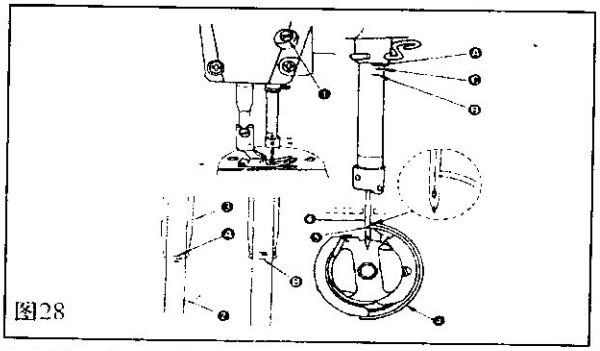


图28

1.Adjust the timing between the needle and the hook as follows:

1) Turn the handwheel to bring the needle bar down to the lowest point of its stroke, and loosen setscrew ①.

*Adjusting the needle bar height

2) Align marker line A on needle bar ②with the bottom end of needle bar lower bushing ③, then tighten set-screw①.

*Adjusting position A of the hook

3)Loosen the two hook setscrews, turn the handwheel, and align marker line B on ascending needle bar②with the bottom end of needle bar lower bushing ③.

4) After making the adjustments mentioned in the above steps align hook blade point⑤with the center of needle ④.Provide a clearance of 0.04mm to 0.1mm between the needle and the hook, then securely,tighen the hook setscrews.

* Note that the type of hook to be substituted for, when replacing the hook, shall be in conformity with the very type of the hook installed in the sewing machine of original assemblage.

## 24. 压杆高度的调节（图29）
## ADJUSTING THE HEIGHT OF THE PRESSER BAR (FIG.29)

1). 旋松压杆导架紧固螺钉①调节压杆高度（在压脚上升最高时，针板面与压脚底面距离为5.5毫米）。

2). 调节后，拧紧紧固螺钉。

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

2) After adjustment,securely tighten the setscrew.

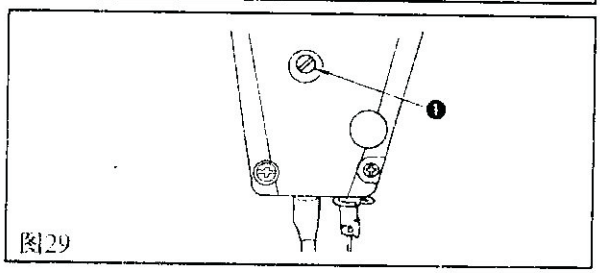


图29

## 25. 挑线杆挑线量的调节（图30）
## ADJUSTING THE THREAD TAKE-UP STAOKE (FIG.30)

1). 缝制厚料时，应将右线钩①朝左方向A移动，以增大挑线量。

2). 缝制薄料时，应将右线钩①朝左方向B移动，以减小挑线量。

3). 右线钩 1 上的刻线C与螺钉中心一致时为标准位置。

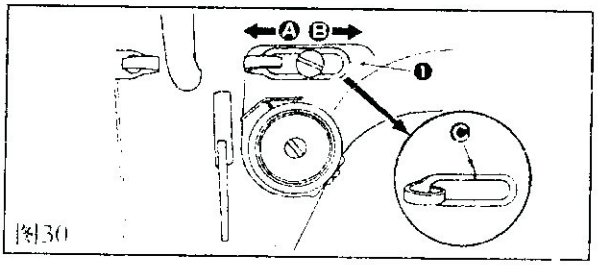


图30

1) When sewing heavy-weright materials, move thread guide①to the left(in direction Ⓐ)to increase the length of thread pulled out by the thread take-up.
2) When sewing light-weight materials,move thread guide①to the right (indirection Ⓑ)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 Ⓒ is aligned with the center of the screw.

## 26. 停针位置的调整（图31）
## ADJUSTING THE NEEDLE STOP POSITION (FIG.31)

### 1. 剪线后的上停针位置

接通电源开关，在针上停止位置停下缝纫机时，针板上平面到针尖的距离：中厚料为10-20ml (即后盖上的刻点A与上轮上的红刻点 B对齐）；厚料为10-14 ml（即后盖上的刻点A与上轮上的白刻点E对齐）。

2）要使上停针位置有所变化，旋松两个紧固螺钉 ①，就可在长槽范围内调整。

① 若螺钉朝C方向移动，针杆 ② 在高位置停止；

② 若螺钉朝D方向移动，停止位置则变低相应。

*注意：

在旋松螺钉 ① 的时候，请不要起动机器。此外，螺钉 1 只要旋松即可，不要拆下。

### 2. 下停针位置

*注意：针下停止位置不要调整

1. Needle position after thread trimming.
After swich on the machine,stop the machine as the needle goes to its highest position and then the distance between the needle plate upper plate and the needlepoint is : middle heavy cloth: 10-20mm(the red point A on the back cover aligns with the red point B on the upper wheel); the heavy cloth :10-14mm (the red point A aligns with the point E on the upperwheel).If you want to change the needle position , loose the two fixed screws 1 and then you can adjust it in the long slot.

① If the screw moves to C, the needle bar ② stops at its highest position;

② If the screw moves to D, the needle bar stops at a lower position.

Remarks:
When loose the screw ① ,please do not set up the machine; besides, just losse the screw ① nottake it off.

2. The needle's lower position
Precaution: Don't adjusting the needle's stop position.

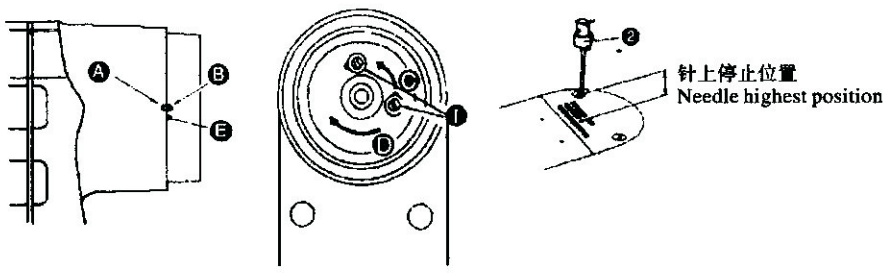



图31

## 27. 踏板压力与行程（图32）
## PEDAL.PRESSURE AND PEDAL STROKE (FIG.32)

### 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）把弹簧挂到左侧压力变小；
3）挂到右侧压力变大。

### 2. 踏板返回力的调整

1）用返踩调节螺钉②进行调节；
2）拧紧调节螺钉压力变大；
3）拧紧螺钉压力变小。

### 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。

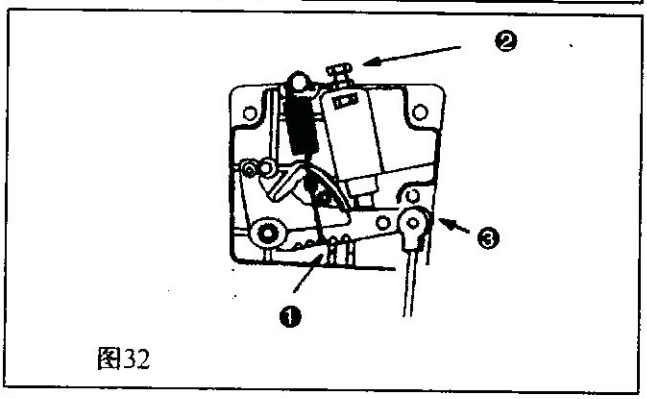


图32

1. Adjusting the pressure required to depress the front part of the pedal
1) This pressure can be changed by altering the moun–thing position of pedaling pressure adjust spring ①. thing position of pedaling pressure adjust spring ①.
2) The pressure decreases when you hook the spring on the left side.
3) The pressure increases when you hook the sping on the right side.
2. Adjusting the pressure required to depress the back part of the pedal
1) This pressure can be adjusted using regulator screw ②.
2) The pressure increases as you turn the regulator screw in.
3) The pressure decreases as you turn the screw cut.
3. Adjusing the pedal stroke
1) The pedal stroke decreases when you insert connec–ting rod ③ into the left hole.

## 28. 踏板的调整（图33） ADJUSTMENT OF THE PEDAL (FIG.33)

### 1. 拉杆位置的调整：

1）左右移动踏板调节板，将踏板曲柄①和拉杆部件②垂直连接。

### 2. 踏板角度的调整：

1）踏板的倾斜，可以根据拉杆长度的调节自由改变。
旋松螺钉④，就可以调节拉杆的②长度。

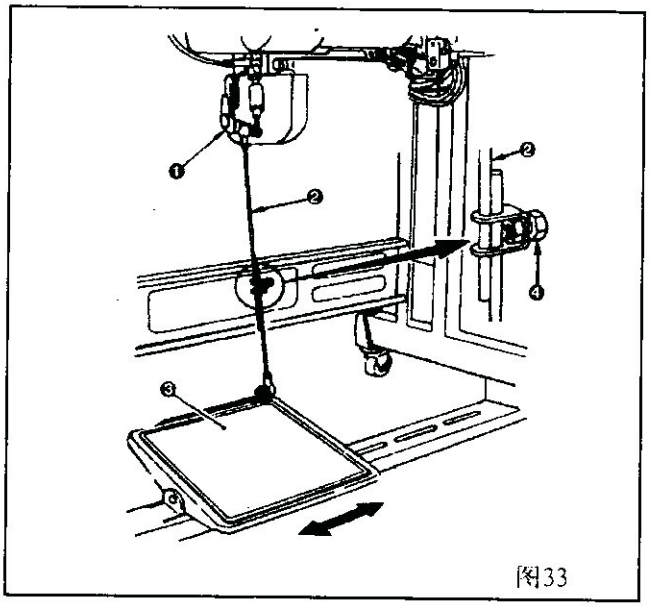


图33

1. Installing the connecting rod
1) Move pedal to the right or left as illustrated by the arrows so that motor control lever and connecting rod are strainghtened.
2) Adjusting the pedal angle
1) The pedal tilt can be freely adjus ted by changing the length of the connecting rod.
2) Loosen adjust screw, and adjust the length of connecting rod.

## 29. 手触倒缝装置（图34）
## ONE-TOUCH TYPE REVERSE FEED STITCHING MECHANISM (FIG.34)

### 1. 使用方法：

1）手按手触倒缝开关①，机器执行倒缝动作。

2）机器执行自动倒缝与手按着开关按钮的时间同步。

3）手一离开开关按钮，机器又重新恢复到顺缝状态。

### 2. 手触倒缝开关的高度

1）调节手触倒缝开关①的高度，使之便于操作。

2）旋松螺钉②，上下移动开关杆就可以调整它的高度。

1. How to operate

1) Pressing the switch presses button 1, the sewing machine pours to sew immediately;

2) Proceed to pour to sew at time that press;

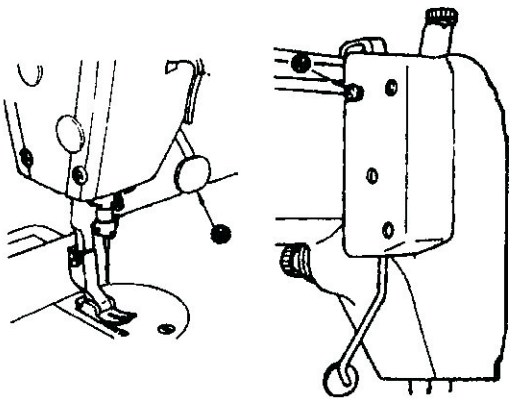


图34

3) Loosen to draw to change into namely facethe sewing;

4) Turning on the machinc hour floodlight is an all openning, pressing to move to press button 2 illuminate the ray will die down gradually,totally 3 class.

## 30. 针板组件的安装（图35）
## NEEDLE PLATE INSTALLATION (FIG.35)

安装针板组件时，一定要把切刀移动到最下端，让针板组件轻轻地顶到切刀，然后交替的拧紧两个固定螺钉。

Be sure move the cutter to the bottom to get needle plate complete touching knife,then tighten the screws by alternation when install needle place complete.

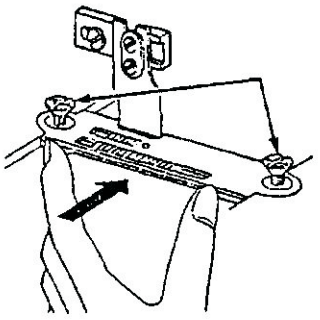


图35

## 31. 切刀的操作与安装（图36、图37）
## OPERATON AND INSTALLATION OF CUTTER (FIG.36,FIG.37)

### 1. 切刀的操作：

1）让切刀动作时，请按压控刀杆1，使切刀下降，刀架导向架与缝纫机同时驱动。

2）让切刀停止动作，转换为普通缝纫机使，沿箭头方向拉出旋钮2即可。

### 2. 切刀的安装：

1）如图所示安装切刀，切刀下降到最下点时，上下移动切刀，让切刀的A部比针板的上平面低0~0.5mm。

### 3. 切刀宽度的变更：

1）切断宽度通过更换针板组件来决定。更换时请拧松导向架导轨固定螺钉1，平行地拉出切刀，以保持良好的切断质量。因变更了针板组件的尺寸，而需要变更切刀位置时，请拧松螺钉2，让切刀刃接触到针板组件的刀刃，然后固定螺钉2。

2）标准规格安装的是3.2mm的针板组件。

1. Operation of cutter

1) Letting cutter works,Pressing control knife pole to , make cutter down, driving by knife rest oriented frame and sewing machine.

2) Just pull knob2 if want to make cutter knife shopping working to swith into common sewing machine use.

2. Installation of cutter

1) Install cutter as per picture , When cutter dropping to the rock-bottom, move knife by flutuation,make "A" part of cutter lower 0-0.5mm than upper plane.

3. Adjust cutting width

1) Cutting width are decided by different needle plate complete. When changing,please loose screw driven frame rail 1,pill out of cutter knife by parallel to keep good quality of cutting width.If changing situation of cutter based on different needle plate complete,please loose screw 2 to make cutter-knife blade to touch blade of needle plate co-mplete.Then tighten screw2.

2) Standard equipment is 3.2mm needle plate complete.

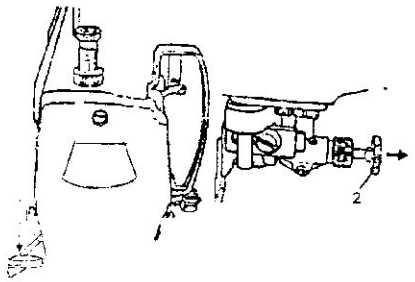
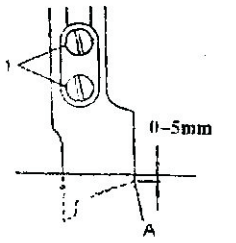



图36



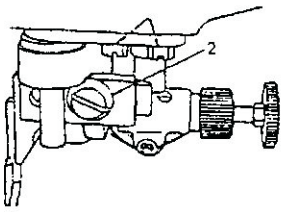




图37

## 32. 排屑孔盖板的使用（图38）
## USAGE OF CLEARANCE HOLE COCER (FIG.38)

1). 在使用布切刀时，请先将排屑导板拆下，然后把附属的排屑孔盖板到屑斗板上，请A部上方按下。

2). 排屑孔盖板牢固的盖好后，就可作为普通机器使用。

1) If no need function of cuttee, just discharge chip - rejecting guide plate then cover attaching clearance hole cover plate on chip-rejecting plate,please press from part A as per picture.

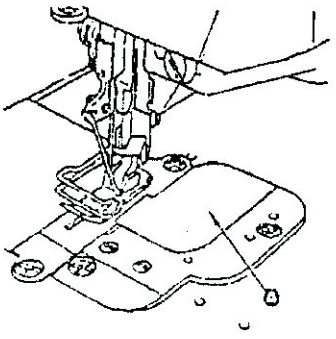


图38

## 33. 其他切刀规格零件的更换
## CHANGE OF DIFFERENT CUTTER SPECIFICATION PARTS

本机配备的标准裁断宽度是1/8"(3.2mm).根据用户需求，我们还另外配备了其它的规格，如需更换，请参阅相关零件更换一览表。

**Standard installation for cutting wid th is 1/8" (3.2 mm) ,other sizes please check the follow chart**

| 名称 / 裁宽 / 图号 | 针板组件 | 送布牙 | 压脚 | 排屑斗 | 布屑导板 |
|---|---|---|---|---|---|
| 3/32" (2.4) | 3/32" | 3/32" | 1/8" | 1/8" | 1/8" |
| 1/8" (3.2) | 1/8" | 1/8" | | | |
| 5/32" (4.0) | 5/32" | | | | |
| 3/16" (4.8) | 3/16" | | | | |
| 1/4" (6.4) | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" |
| 3/8" (9.5) | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" |

| name / Cutter width / Specifications | Needle plate complete | Feed dog | Presser foot | Clearance hole | Clearance hole guide plate |
|---|---|---|---|---|---|
| 3/32" (2.4) | 3/32" | 3/32" | 1/8" | 1/8" | 1/8" |
| 1/8" (3.2) | 1/8" | 1/8" | | | |
| 5/32" (4.0) | 5/32" | | | | |
| 3/16" (4.8) | 3/16" | | | | |
| 1/4" (6.4) | 1/4" | 1/4" | 1/4" | 1/4" | 1/4" |
| 3/8" (9.5) | 3/8" | 3/8" | 3/8" | 3/8" | 3/8" |

# 零件手册
# PATRTS BOOK

本使用说明书内容，为了改良不经预告随时会更改，
请谅解为盼。

The description in this operation manual is subject to
change for improvement of the commodity without motice.

## 零件手册使用说明

1、本手册使用于封面上所示同种系列的缝纫机；
2、部分零件设计上的改变不预先通知用户；
3、本手册为2009年10月的版本

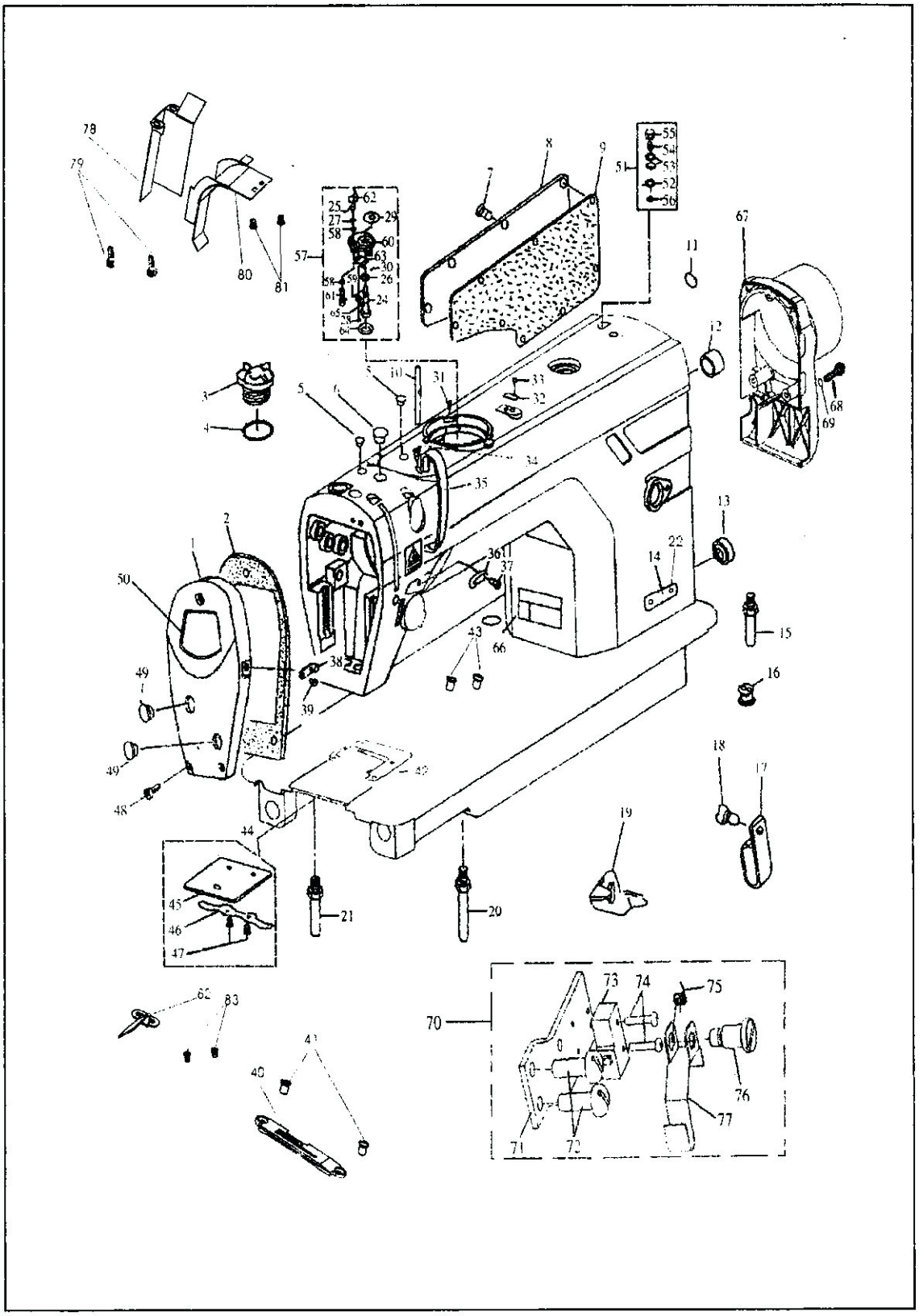
## Notes for using this parts book

1.This book is applicable to sewing machines which have the same plate number as shown on the cover of this book(or correction sheet).
2.Parts are subject to changes in design without prior notice.
3.This book was prepared based on information available in October 2009

## 目　　录
## CONTENTS


1.机壳分组件 Machine frame & miscellaneous cover components ····· 22
2.上轴、挑线分组件 Main shaft & thread take-up components ····· 25
3.针杆、夹线分组件 Needle bar & thread tension components ····· 27
4.压料、松线分组件 Presser bar& tension release components ····· 29
5.勾线分组件 Hook of driving shaft components ····· 31
6.送料分组件 Feed mechanism componets ····· 33
7.送料、调节分组件 Feed regulating componets ····· 35
8.1剪线分组件 Thread trimmer componets ····· 38
（旋刀组件 Round knife components ）
9.切刀控制组件 Cutter contrel components ····· 40
10.润滑分组件 Lubrication componets ····· 42
11.油盘、膝抬压脚分组件 Presser foot components of oil plate knee lift ····· 44
12.附件 Auxiliaries ····· 45

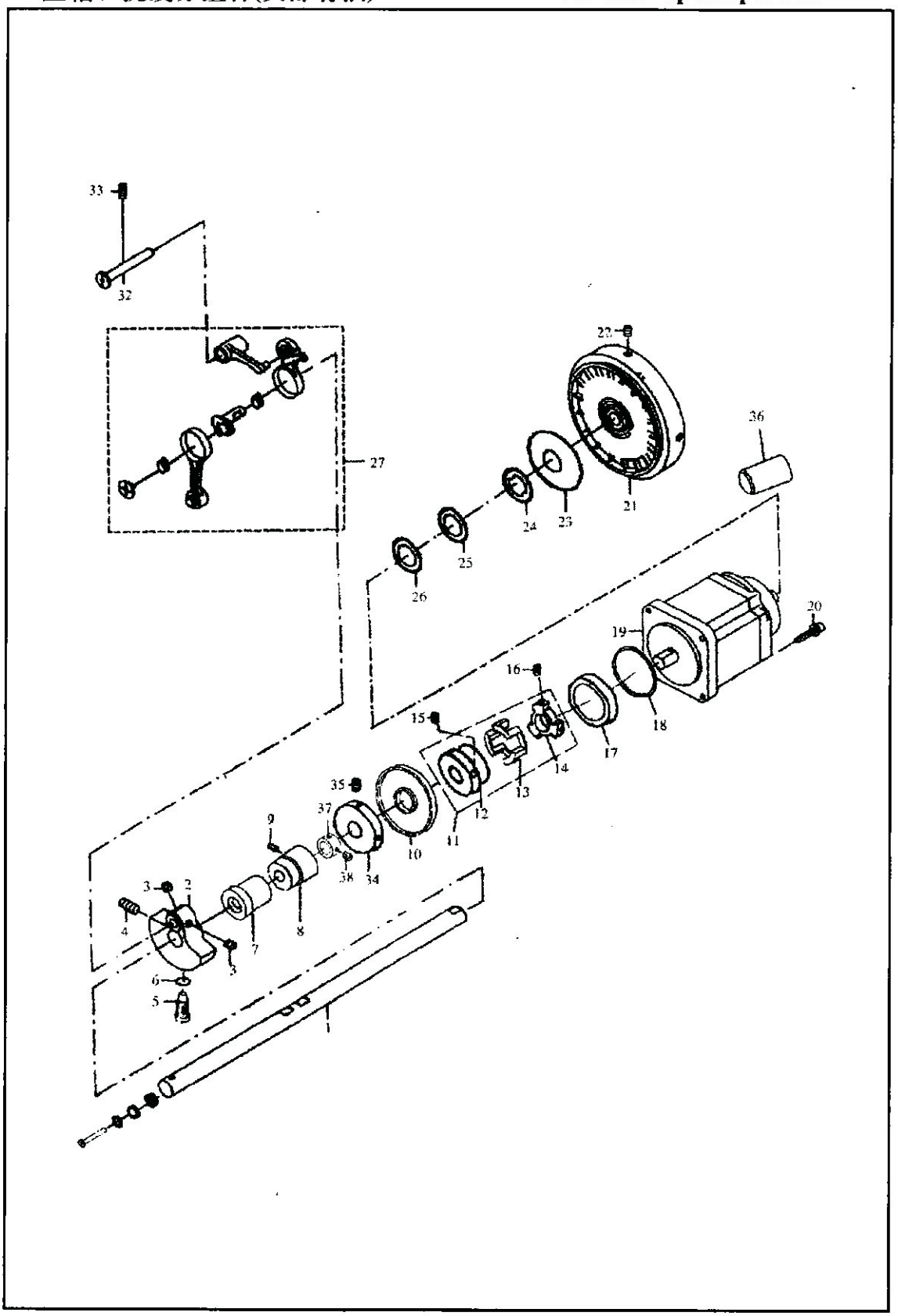
## 1. 机壳分组件
## MACHINE FRAME&MISCELLANEOUS COVER COMPONENTS



| 序号 Ref.No | 图 号 Part Number | 名 称 | Description | 数量 QTY |
|---|---|---|---|---|
| 1 | 22-01-001 | 面板 | FACE PLATE | 1 |
| 2 | 22-01-002 | 面板垫 | FACE PLATE GASKET | 1 |
| 3 | 22-01-003 | 油窗 | OIL WINDOW | 1 |
| 4 | 22-01-004 | 油窗O形圈 | THRUST COLLAR ASM. | 1 |
| 5 | 22-01-005 | 挑线连杆螺孔塞 | RUBBER PLUG | 2 |
| 6 | 22-01-006 | 针杆曲柄螺孔塞 | RUBBER PLUG | 1 |
| 7 | 22-01-007 | 后窗板螺钉 | SCREW 3/16-28 L=9 | 8 |
| 8 | 22-01-008 | 后窗板 | SIDE PLATE | 1 |
| 9 | 22-01-009 | 后窗板垫 | SIDE PLATE GASKET | 1 |
| 10 | 22-01-010 | 过线柱 | NEEDLE THREAD GUIDE PIN | 1 |
| 11 | 22-01-011 | 接地指示牌 | EARTHING INDICATION PLAT | 1 |
| 12 | 22-01-012 | 送料调节器孔塞 | RUBBER PLUG | 1 |
| 13 | 22-01-013 | 下轴盲孔塞 | RUBBER PLUG | 1 |
| 14 | 22-01-014 | 型号牌 | MODEL PLATE | 1 |
| 15 | 22-01-015 | 底板支柱(短) | BED SCREW STUD | 2 |
| 16 | 22-01-016 | 电线过线套 | NEEDLE BEARING | 1 |
| 17 | 22-01-017 | 电线夹 | CORD HOLDER | 1 |
| 18 | 22-01-018 | 电线夹螺钉 | SCREW | 1 |
| 19 | 22-01-019 | 电线压板 | CORD HOLDER | 1 |
| 20 | 22-01-020 | 底板支柱(长) | BED SCREW STUD | 1 |
| 21 | 22-01-021 | 底板支柱(中) | BED SCREW STUD | 1 |
| 22 | 22-01-022 | 型号牌铆钉 | POLE | 2 |
| 23 | 22-01-023 | 摆动板 | BOBBIN WINDER SHAFT COMPLE | 1 |
| 24 | 22-01-024 | 线量调节板螺钉 | | 1 |
| 25 | 22-01-025 | 绕线凸轮轴O形圈 | O-RING | 1 |
| 26 | 22-01-026 | 绕线定位块轴薄挡圈 | E-RING | 1 |
| 27 | 22-01-027 | 摆动板轴挡圈 | RETAINING RING | 1 |
| 28 | 22-01-028 | 卷绕轴垫 | CUSHING | 1 |
| 29 | 22-01-029 | 控制板复位短弹簧 | SHORT SPRING | 1 |
| 30 | 22-01-030 | 绕线器安装螺钉 | SCREW | 3 |
| 31 | 22-01-031 | 绕线切刀 | THREAD CUTTER | 1 |
| 32 | 22-01-032 | 绕线切刀螺钉 | SCREW | 2 |
| 33 | 22-01-033 | 挑线杆防护罩螺钉 | SCREW 3/16-28 L=9 | 1 |
| 34 | 22-01-034 | 挑线杆防护罩 | THREAD TAKE-UP LEVER COVER | 1 |
| 35 | 22-01-035 | 右线钩 | ARM THREAD GUIDE RIGHT | 1 |
| 36 | 22-01-036 | 右线钩螺钉 | SCREW 11/64-40 L=6 | 1 |
| 37 | 22-01-037 | 左线钩 | ARM THREAD GUIDE LEFT | 1 |
| 38 | 22-01-038 | 右线钩螺钉 | SCREW 11/64-40 L=6 | 1 |
| 39 | 22-01-039 | 针板 | NEEDLE PLATE | 1 |
| 40 | 22-01-040 | 针板螺钉 | SCREW | 2 |
| 41 | 22-01-041 | 排屑斗板 | CLEARANCE HOLE PLATE | 1 |
| 42 | 22-01-042 | 排屑斗板螺钉 | SCREW | 2 |
| 43 | 22-01-043 | 推板组件 | SLIDE PLATE ASM. | 1 |
| 44 | 22-01-044 | 推板 | SLIDE PLATE | 1 |
| 45 | 22-01-045 | 推板簧 | SPRING OF SLIDE PLATE | 1 |

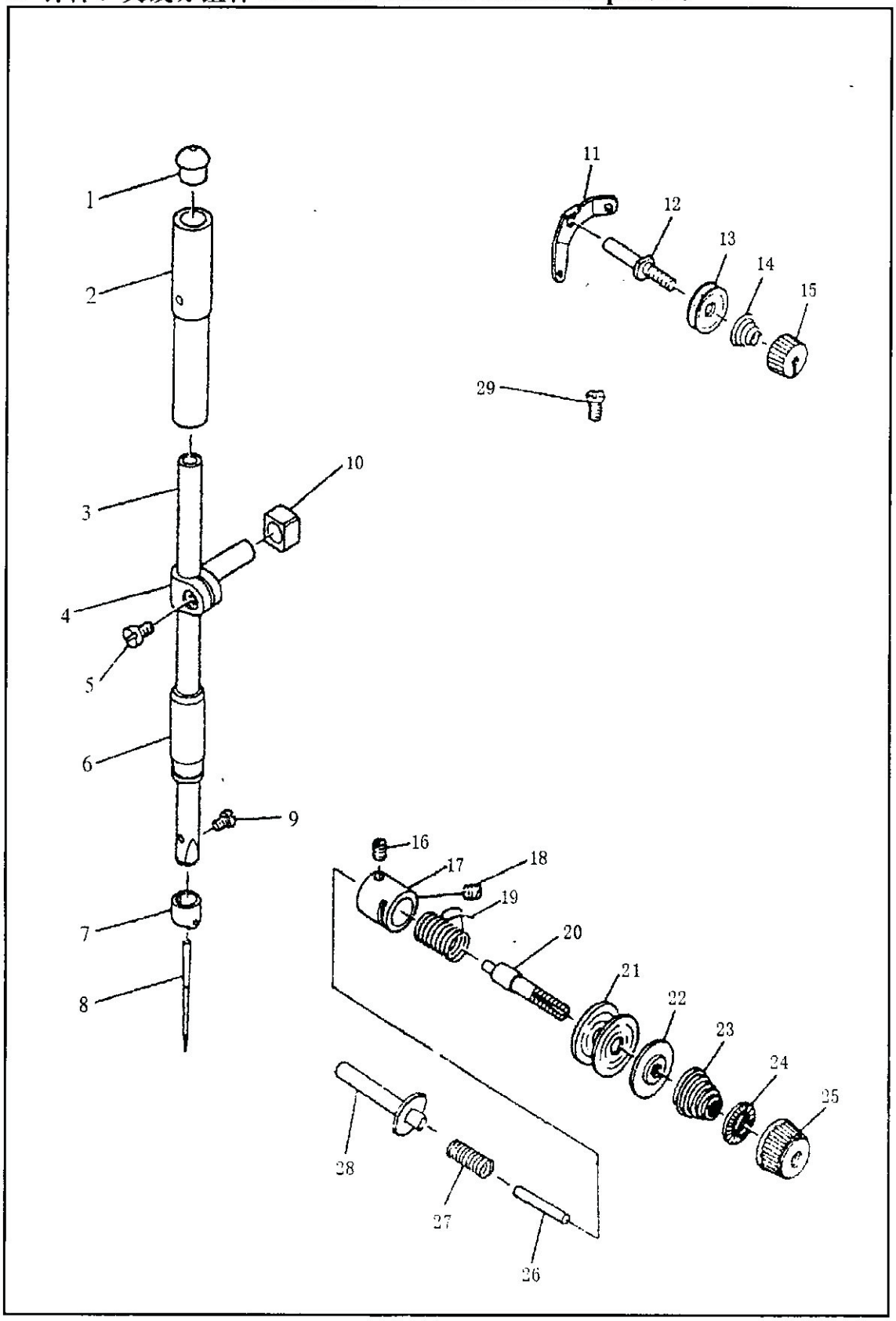
| 序号 Ref.No | 图 号 Part Number | 名 称 | Description | 数量 QTY |
|---|---|---|---|---|
| 46 | 22-01-046 | 推板螺钉 | SCREW | 2 |
| 47 | 22-01-047 | 面板螺钉 | SCREW 3/16-28 L=9 | 3 |
| 48 | 22-01-048 | 面板调节螺孔塞 | RUBBER PLUG D=12.5 L=4 | 2 |
| 49 | 22-01-049 | 面板装饰牌 | PLATE | 1 |
| 50 | 22-01-050 | 绕线夹线器组件 | BOBBIN THREAD TENSION ASM. | 1 |
| 51 | 22-01-051 | 中过线板组件 | BOBBIN THREAD TENSION ASM. | 1 |
| 52 | 22-01-052 | 夹线板 | THREAD TENSION DISK | 1 |
| 53 | 22-01-053 | 夹线簧 | THREAD TENSION SPRING | 1 |
| 54 | 22-01-054 | 塑料夹线螺母 | THREAD TENSION NUT | 1 |
| 55 | 22-01-055 | 夹线螺母 | NUT | 1 |
| 56 | 22-01-056 | 绕线器组件 | BOBBIN WINDER ASM. | 1 |
| 57 | 22-01-057 | 绕线定位块轴薄垫片 | WASHER | 1 |
| 58 | 22-01-058 | 梭芯弹簧 | LATCH SPRING | 1 |
| 59 | 22-01-059 | 梭芯卷绕体组件 | BOBBIN FITTING BASIS COMPL | 1 |
| 60 | 22-01-060 | 绕线定位块 | BOBBIN WINDER REGULATOR | 1 |
| 61 | 22-01-061 | 卷绕手柄 | BOBBIN LEVER | 1 |
| 62 | 22-01-062 | 控制板 | ADJUSTING PLATE | 1 |
| 63 | 22-01-063 | 橡胶轮 | RUBBER RING | 1 |
| 64 | 22-01-064 | 控制板复位长弹簧 | LONG SPRING | 1 |
| 65 | 22-01-065 | 安全指示牌 | SAFETY-INDICATING PLATE | 1 |
| 66 | 22-01-066 | 后盖 | PULLEY COVER | 1 |
| 67 | 22-01-067 | 后盖螺钉 | SCREW | 3 |
| 68 | 22-01-068 | 后盖螺钉垫圈 | WASHER | 3 |
| 69 | 22-01-069 | 保险开关组件 | SAFETY SWITCH ASM. | 1 |
| 70 | 22-01-070 | 保险开关安装板 | SAFETY SWITCH PLATE | 1 |
| 71 | 22-01-071 | 保险开关固定螺钉 | SCREW | 2 |
| 72 | 22-01-072 | 保险开关 | SAFETY SWITCH CORS ASM. | 1 |
| 73 | 22-01-073 | 保险插座螺钉 | SCREW | 2 |
| 74 | 22-01-074 | 保险开关弹簧 | SAFETY SWITCH SPRING | 1 |
| 75 | 22-01-075 | 保险开关支架轴 | SAFETY SWITCH ARM.SHAFT | 1 |
| 76 | 22-01-076 | 保险开关支架 | SAFETY SWITCH BASH | 1 |
| 77 | 22-01-077 | 三角警示标帖 | TAUTION PLATE | 1 |
| 78 | 22-01-078 | 挡屑板 | SHELTER SCRAPS PLATE | 1 |
| 79 | 22-01-079 | 挡屑板螺钉 | SCREW | 2 |
| 80 | 22-01-080 | 排屑斗 | CLEARANCE-HOLE | 1 |
| 81 | 22-01-081 | 排屑斗螺钉 | SCREW | 2 |
| 82 | 22-01-082 | 布屑导板 | SCRAPS GUIDE PLATE | 1 |
| 83 | 22-01-083 | 布屑导板螺钉 | SCREW | 2 |

## 2. 上轴、挑线分组件(头部有油) Main shaft & thread take-up components



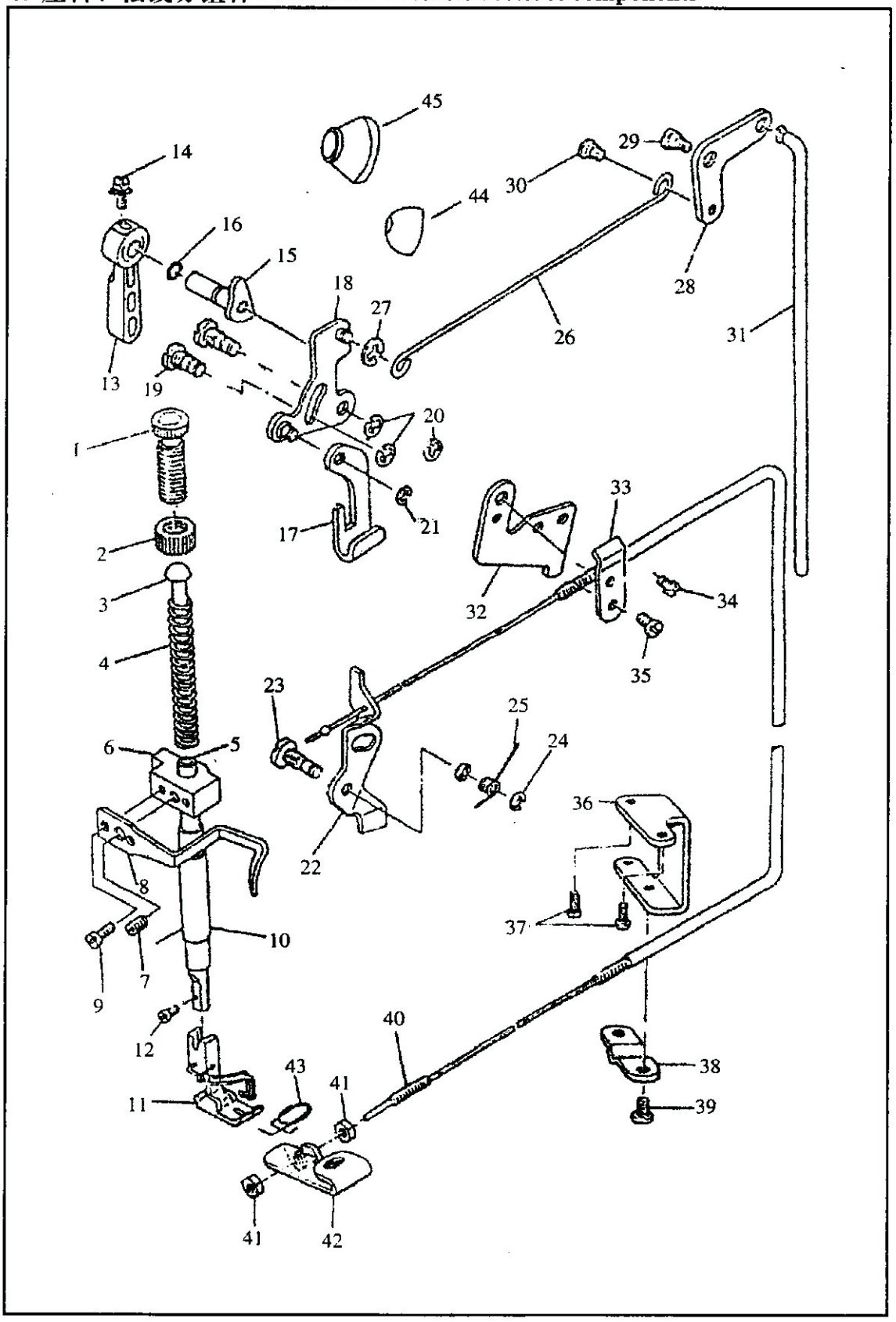
| 序号 Ref.No | 图 号 Part Number | 名 称 | Description | 数量 QTY |
|---|---|---|---|---|
| 1 | 22-02-001 | 上轴 | MAIN SHAFT | 1 |
| 2 | 22-02-002 | 针杆曲柄 | COUNTER WEIGHT | 1 |
| 3 | 22-02-003 | 挑线曲柄定位螺钉 | SCREW | 1 |
| 4 | 22-02-004 | 针杆曲柄紧固螺钉 | SCREW 9/32-28 L=16 | 1 |
| 5 | 22-02-005 | 针杆曲柄定位螺钉 | SCREW | 1 |
| 6 | 22-02-006 | 针杆曲柄定位螺钉O型圈 | RUBBER RING | 1 |
| 7 | 22-02-007 | 上轴前轴套组件 | MAIN SHAFT BEARING SUPPORT | 1 |
| 8 | 22-02-008 | 上轴中轴套 | BUSHING INTERNEDIATE | 1 |
| 9 | 22-02-009 | 上轴中轴套螺钉 | SCREW 15/64-28 L=9 | 1 |
| 10 | 22-02-010 | 上轴油封 | OIL SEAL | 1 |
| 11 | 22-02-011 | 联轴器组件 | COUPLING ASM. | 1 |
| 12 | 22-02-012 | 上轴联轴器 | COUPLING ASM. | 1 |
| 13 | 22-02-013 | 联轴器橡胶圈 | WASHER | 1 |
| 14 | 22-02-014 | 电机联轴器 | COUPLING ASM. | 1 |
| 15 | 22-02-015 | 上轴联轴器紧固螺钉 | SCREW | 1 |
| 16 | 22-02-016 | 电机联轴器紧固螺钉 | SCREW | 1 |
| 17 | 22-02-017 | 轴承 | BEARING | 1 |
| 18 | 22-02-018 | 电机密封圈 | FOLDER | 1 |
| 19 | 22-02-019 | 电机 | MOTOR | 1 |
| 20 | 22-02-020 | 上轴电机螺钉组件 | BOLT | 4 |
| 21 | 22-02-021 | 上轮 | HEAD WHEEL | 1 |
| 22 | 22-02-022 | 上轮螺钉 | SCREW | 2 |
| 23 | 22-02-023 | 下定位片 | DOWN GO TO PARCEL | 1 |
| 24 | 22-02-024 | 隔离片 | SEPARATE PARCEL | 1 |
| 25 | 22-02-025 | 上定位片 | HEAD GO TO PARCEL | 1 |
| 26 | 22-02-026 | 垫片 | WASHER | 1 |
| 27 | 22-02-027 | 弹簧垫片 | WASHER | 1 |
| 28 | 22-02-028 | 卡圈 | E-RING | 1 |
| 29 | 22-02-029 | 反光片 | GLISTEN PARCEL | 1 |
| 30 | 22-02-030 | 挑线杆组件 | THREED TAKE-UP ASM. | 1 |
| 31 | 22-02-031 | 挡圈 | THRUST COLLAR | 1 |
| 32 | 22-02-032 | 螺钉 | SCREW | 2 |
| 33 | 22-02-033 | 挡圈 | BEARING SUPPORT | 1 |
| 34 | 22-02-034 | 轴承K7X10X9.7 | BEARING | 1 |
| 35 | 22-02-035 | 挑线连杆铰链轴 | THREED TAKE-UP CRANK SHAFT | 1 |
| 36 | 22-02-036 | 挑线连杆铰链轴螺钉 | SCREW | 1 |
| 37 | 22-02-037 | 绕线主动轮 | WHEET | 1 |
| 38 | 22-02-038 | 绕线主动轮紧定螺钉 | SCREW | 2 |
| 39 | 22-02-039 | 上轴前套衬套 | MAIN SHAFT FRONT LINER BUSHING | 1 |
| 40 | 22-02-040 | 上轴挡圈 | THRUST COLLAR ASM. | 1 |
| 41 | 22-02-041 | 上轴挡圈螺钉 | SCREW 1/4-40 L=6 | 2 |

### 3. 针杆、夹线分组件 Needle bar & thread tension components



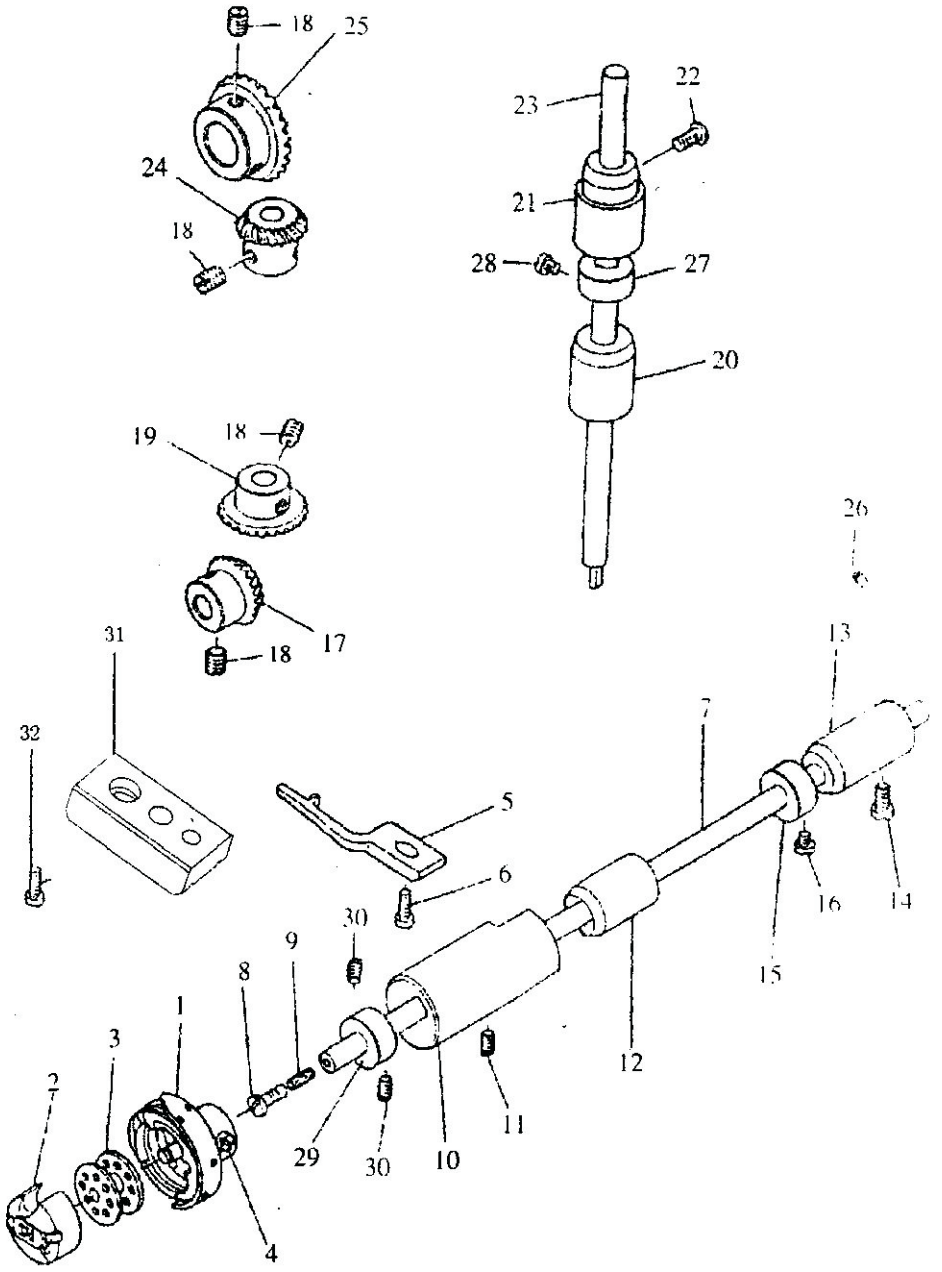
| 序号 Ref.No | 图 号 Part Number | 名 称 | Description | 数量 QTY |
|---|---|---|---|---|
| 1 | 22-03-001 | 针杆上轴套橡皮塞 | CAP | 1 |
| 2 | 22-03-002 | 针杆上轴套 | NEEDLE BAR BUSHING,UPPER | 1 |
| 3 | 22-03-003 | 针杆 | NEEDLE BAR | 1 |
| 4 | 22-03-004 | 针杆连接柱 | NEEDLE BAR HOLDER | 1 |
| 5 | 22-03-005 | 针杆连接柱螺钉 | SCREW 9/64-40 L=6 | 1 |
| 6 | 22-03-006 | 针杆下轴套 | NEEDLE BAR BUSHING,LOWER | 1 |
| 7 | 22-03-007 | 针杆线钩 | NEEDLE BAR THREAD GUIDE | 1 |
| 8 | 22-03-008 | 机针 | NEEDLE(DBX1 #14) | 1 |
| 9 | 22-03-009 | 支针螺钉 | SCREW 1/8-44 L=4.5 | 1 |
| 10 | 22-03-010 | 针杆连接柱滑块 | SLIDE BLOCK | 1 |
| 11 | 22-03-011 | 上过线板 | THREAD TENSION GUIDE | 1 |
| 12 | 22-03-012 | 上夹线螺钉 | FIRST TENSION POST | 1 |
| 13 | 22-03-013 | 上过线板 | BOBBIN WINDER TENSION DISC | 1 |
| 14 | 22-03-014 | 上夹线簧 | THREAD TENSION SPRING | 1 |
| 15 | 22-03-015 | 上夹线螺母组件 | THREAD TENSION NUT | 1 |
| 16 | 22-03-016 | 夹线螺钉紧固螺钉 | SET SCREW 9/64-40 L=5.5 | 1 |
| 17 | 22-03-017 | 挑线簧调节 | TENSION POST SOCKET | 1 |
| 18 | 22-03-018 | 夹线器螺钉 | SCREW | 1 |
| 19 | 22-03-019 | 挑线簧 | TAKE-UP SPRING | 1 |
| 20 | 22-03-020 | 夹线螺钉 | SCREW | 1 |
| 21 | 22-03-021 | 夹线板 | TENSION DISC | 1 |
| 22 | 22-03-022 | 松线板 | TENSION DISC HOLDER | 1 |
| 23 | 22-03-023 | 夹线簧 | TENSION SPRING | 1 |
| 24 | 22-03-024 | 夹线制动板 | TENSION DISC STOPPER | 1 |
| 25 | 22-03-025 | 夹线螺母 | TENSION NUT | 1 |
| 26 | 22-03-026 | 松线钉 | THREAD RELEASE PIN | 1 |
| 27 | 22-03-027 | 松线辅钉弹簧 | TENSION RELEASE PIN SPRING | 1 |
| 28 | 22-03-028 | 松线辅钉 | TENSION RELEASE SUPPOREING PIN | 1 |
| 29 | 22-03-029 | 上夹线器螺钉 | SCREW 3/16-28 L=6 | 1 |

## 4. 压料、松线分组件 Presser bar & tension release components



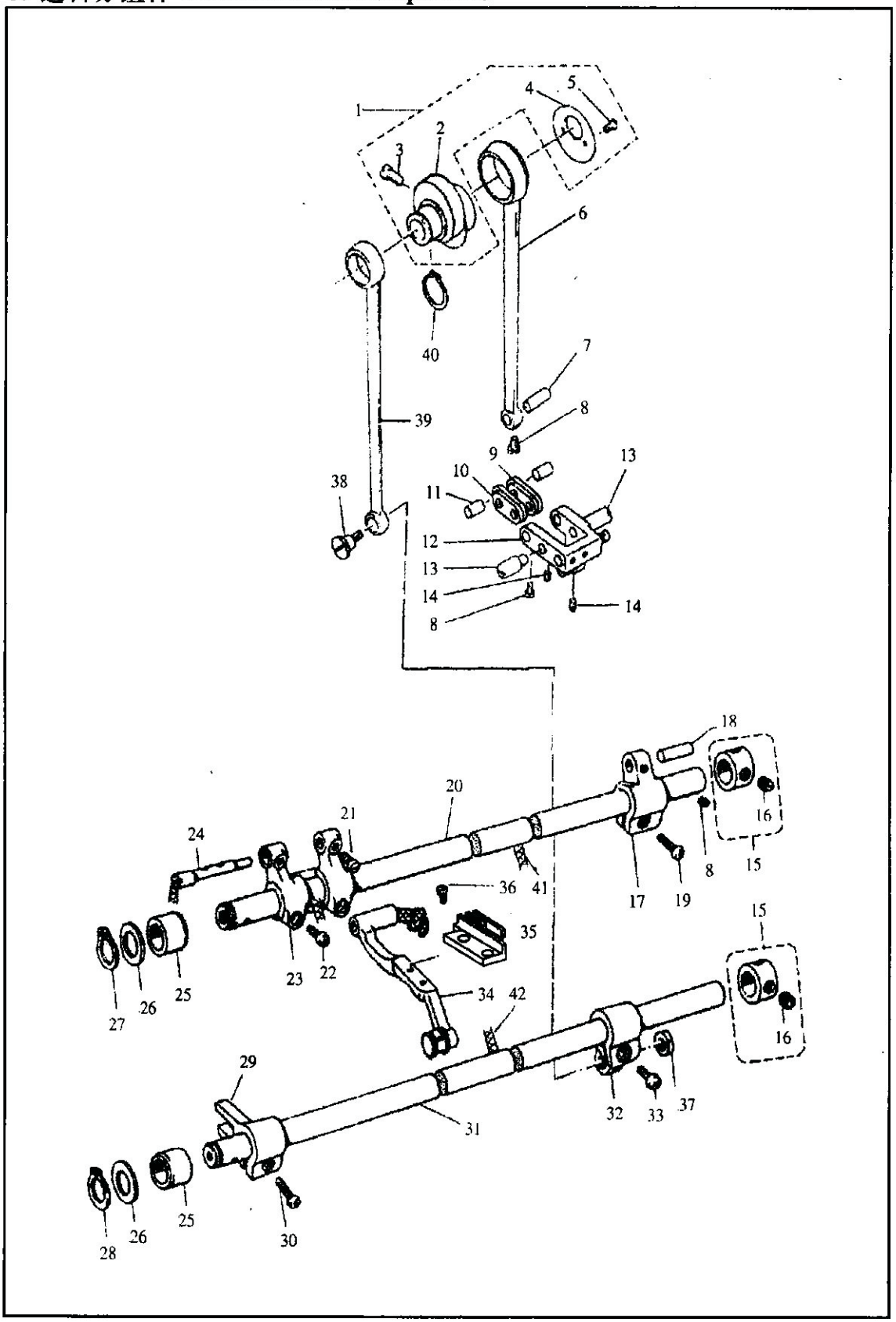
| 序号 Ref.No | 图 号 Part Number | 名 称 | Description | 数量 QTY |
|---|---|---|---|---|
| 1 | 22-04-001 | 调压螺钉 | PRESSER SPRING REGULATOR | 1 |
| 2 | 22-04-002 | 调压螺母 | NUT 1/2-28 | 1 |
| 3 | 22-04-003 | 调压导杆 | PRESSER GUIDE BAR | 1 |
| 4 | 22-04-004 | 调压簧 | PRESSER SPRING REGULATOR | 1 |
| 5 | 22-04-005 | 压杆 | PRESSER GUIDE BAR | 1 |
| 6 | 22-04-006 | 压杆导架 | NEEDLE BAR GUIDE BRACKET | 1 |
| 7 | 22-04-007 | 压杆导架螺钉 | SCREW 1/4-40 L=8 | 1 |
| 8 | 22-04-008 | 缓线调节钩 | PRESSER BAR GUIDE BRACKET | 1 |
| 9 | 22-04-009 | 缓线调节钩螺钉 | SCREW 9/64-40 L=8.5 | 2 |
| 10 | 22-04-010 | 压杆下套 | PRESSER BAR BUSHING LOWER | 1 |
| 11 | 22-04-011 | 活压脚部件 | PRESSER FOOT ASM | 1 |
| 12 | 22-04-012 | 活压脚螺钉 | SCREW 9/64-40 L=9.5 | 1 |
| 13 | 22-04-013 | 压脚扳手 | HAND LOFTER | 1 |
| 14 | 22-04-014 | 压脚扳手螺钉 | SCREW 9/64-40 L=8.5 | 1 |
| 15 | 22-04-015 | 压脚扳手凸轮部件 | HAND LOFTER CAM ASM. | 1 |
| 16 | 22-04-016 | 压脚扳手O型圈 | RUBBER RING | 1 |
| 17 | 22-04-017 | 压脚升降板 | LIFTING LEVER | 1 |
| 18 | 22-04-018 | 抬压脚前杠杆部件 | HAND LIFTER LINK ASM. | 1 |
| 19 | 22-04-019 | 前杠杆螺纹销 | LINK SHAFT | 1 |
| 20 | 22-04-020 | 螺纹销开口挡圈 | SNAP RING | 6 |
| 21 | 22-04-021 | 升降板连接特制开口挡圈 | LIFTING LEVER RING | 1 |
| 22 | 22-04-022 | 松线顶板 | TENSION RELEASE PLATE | 1 |
| 23 | 22-04-023 | 松线顶板螺纹销 | TENSION RELEASE SHAFT | 1 |
| 24 | 22-04-024 | 螺纹销开口挡圈 | SNAP RING | 1 |
| 25 | 22-04-025 | 松线顶板复位簧 | TENSION RELEASE RETURN SPRING | 1 |
| 26 | 22-04-026 | 抬压脚拉杆 | LIFTING LEVER CONNECTING ROD | 1 |
| 27 | 22-04-027 | 拉杆挡圈 | SNAP RING | 1 |
| 28 | 22-04-028 | 抬压脚后杠杆 | LIFTING LEVER LINK | 1 |
| 29 | 22-04-029 | 后杠杆轴位螺钉 | HINGE SCREW | 1 |
| 30 | 22-04-030 | 抬压脚拉杆螺钉 | HINGE SCREW | 1 |
| 31 | 22-04-031 | 抬压脚顶杆 | CONNECTING ROD VERRICAL | 1 |
| 32 | 22-04-032 | 软管支承板 | WIRE HOLDER BRACKET(UPPER) | 1 |
| 33 | 22-04-033 | 软管压板 | WIRE HOLDER | 1 |
| 34 | 22-04-034 | 软管支承板螺钉 | SCREW 3/16-28 L=6 | 1 |
| 35 | 22-04-035 | 软管压板螺钉 | SCREW 11/64-40 L=7 | 1 |
| 36 | 22-04-036 | 松线钢绳座 | LOOSING LINE PLATE | 1 |
| 37 | 22-04-037 | 松线钢绳座螺钉 | SCREW | 2 |
| 38 | 22-04-038 | 钢绳固定板 | FIXING SHUTTER | 1 |
| 39 | 22-04-039 | 钢绳固定板螺钉 | SCREW | 2 |
| 40 | 22-04-040 | 松线钢丝组件 | LOOSING LINE ASM | 1 |
| 41 | 22-04-041 | 松线钢丝调节螺母 | NUT | 1 |
| 42 | 22-04-042 | 松线座 | LOOSING PLATE | 1 |
| 43 | 22-04-043 | 松线复位弹簧 | SPRING | 1 |
| 44 | 22-04-044 | 松线钢丝挡块 | BEFFLE | 1 |
| 45 | 22-04-045 | 压紧杆防油罩 | PRESSER BAR OIL SEAL | 1 |

## 5. 勾线分组件 Hook of driving shaft components



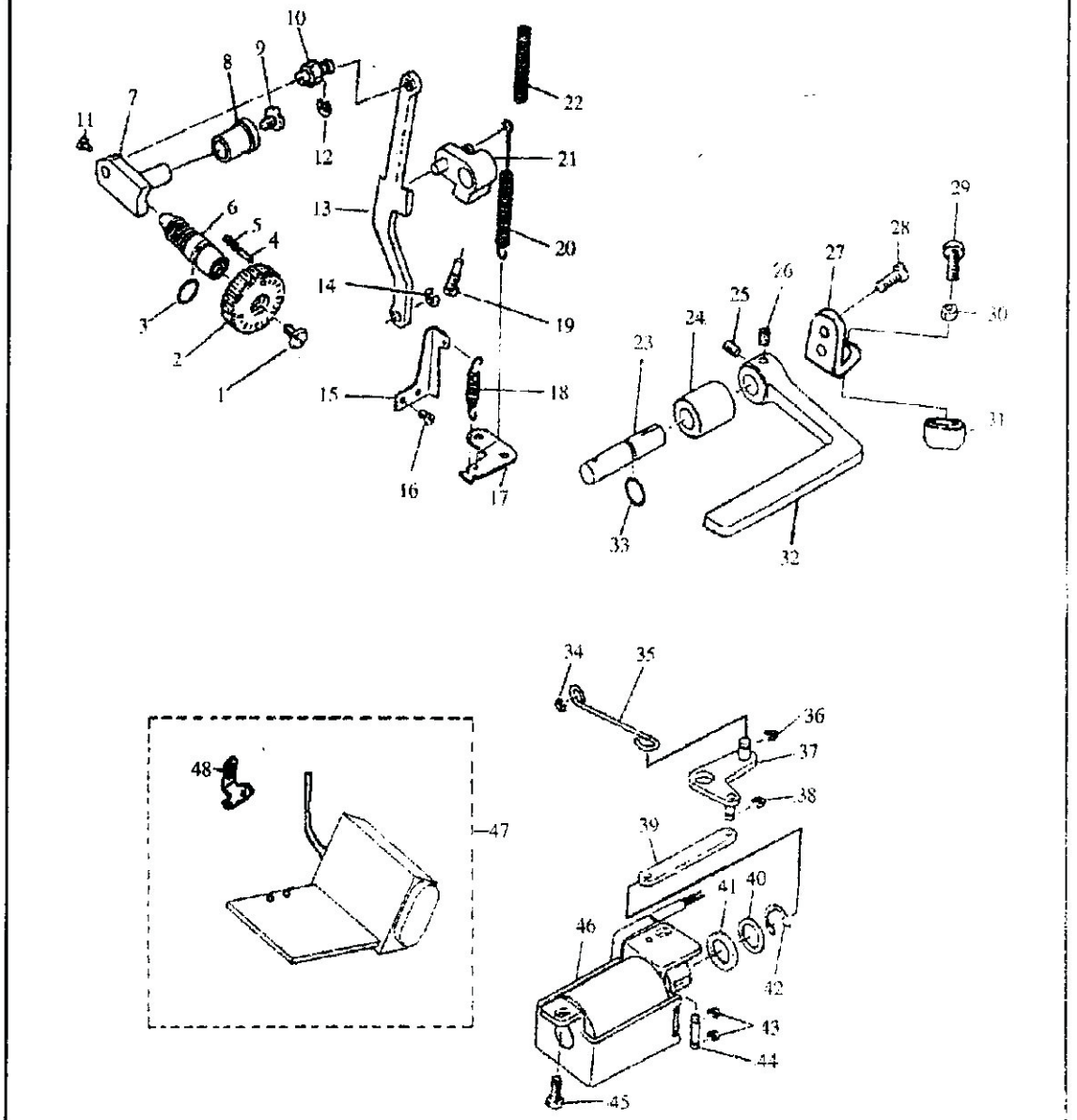
| 序号 Ref.No | 图 号 Part Number | 名 称 | Description | 数量 QTY |
|---|---|---|---|---|
| 1 | 22-05-001 | 旋梭 | HOOK ASM. | 1 |
| 2 | 22-05-002 | 梭子 | BOBBIN CASE ASM. | 1 |
| 3 | 22-05-003 | 梭心 | BOBBIN | 1 |
| 4 | 22-05-004 | 旋梭紧固螺钉 | SCREW | 2 |
| 5 | 22-05-005 | 旋梭定位钩 | POSTIONING FINGER | 1 |
| 6 | 22-05-006 | 旋梭定位钩螺钉 | SCREW 11/64-40 L=9.5 | 1 |
| 7 | 22-05-007 | 下轴 | KOOK DRIVING SHAFT | 1 |
| 8 | 22-05-008 | 下轴限油螺钉 | OIL SEAL SCREW ASM. | |
| 9 | 22-05-009 | 下轴限油螺钉部件 | OIL WICK | 1 |
| 10 | 22-05-010 | 下轴前轴套 | BUSHING ASM .FRONT | 1 |
| 11 | 22-05-011 | 下轴前轴套螺钉 | SCREW 15/64-28 L=7.5 | 1 |
| 12 | 22-05-012 | 下轴中轴套 | BUSHING MIDDLE | 1 |
| 13 | 22-05-013 | 下轴后轴套 | BUSHING REAR | 1 |
| 14 | 22-05-014 | 下轴后轴套螺钉 | SCREW 3/16-28 L=15 | 2 |
| 15 | 22-05-015 | 下轴挡圈 | THRUST COLLAR ASM. | 1 |
| 16 | 22-05-016 | 下轴挡圈螺钉 | SCREW 1/4-40 L=8 | 2 |
| 17 | 22-05-017 | 下轴伞齿轮 | PINION ASM. | 1 |
| 18 | 22-05-018 | 伞齿轮螺钉 | SCREW 1/4-40 L=8 | 8 |
| 19 | 22-05-019 | 竖轴下伞齿轮 | GEAR ASM LARGE | 1 |
| 20 | 22-05-020 | 竖轴下轴套 | UPRIGHT SHAFT BUSHING,LOWER | 1 |
| 21 | 22-05-021 | 竖轴上轴套 | BUSHING ,UPPER | 1 |
| 22 | 22-05-022 | 竖轴上轴套螺钉 | SCREW 11/64-40 L=9 | 1 |
| 23 | 22-05-023 | 竖轴 | UPRINGT SHAFT | 1 |
| 24 | 22-05-024 | 竖轴上伞齿轮 | PINION ASM. | 1 |
| 25 | 22-05-025 | 上轴伞齿轮 | GEAR ASM. | 1 |
| 26 | 22-05-026 | 橡胶塞 | BLOCK | 1 |
| 27 | 22-05-027 | 竖轴上轴套挡圈 | THRUST COLLAR ASM. | 1 |
| 28 | 22-05-028 | 竖轴上轴套挡圈螺钉 | SCREW 1/4-40 L=8 | 2 |
| 29 | 22-05-029 | 下轴防油圈 | OIL SEAL RING | 1 |
| 30 | 22-05-030 | 下轴防油圈螺钉 | SCREW | 2 |
| 31 | 22-05-031 | 定刀安装架 | SHELF | 1 |
| 32 | 22-05-032 | 定刀安装架螺钉 | SCREW | 1 |

## 6. 送料分组件 Feed mechanism components



| 序号 Ref.No | 图 号 Part Number | 名 称 | Description | 数量 QTY |
|---|---|---|---|---|
| 1 | 22-06-001 | 送料偏心轮部件 | FEED DRIVE ECCENTRIC CAM ASM. | 1 |
| 2 | 22-06-002 | 送料偏心轮 | FEED DRIVE ECCENTRIC CAM | 1 |
| 3 | 22-06-003 | 送料偏心轮螺钉 | SCREW 1/4-40 L=11 | 2 |
| 4 | 22-06-004 | 送料偏心轮盖板 | THRUST COLLAR | 1 |
| 5 | 22-06-005 | 偏心轮盖板螺钉 | SCREW 9/64-40 L=5 | 2 |
| 6 | 22-06-006 | 送料连杆 | ROCKER SHAFT CONNECTING ROD | 1 |
| 7 | 22-06-007 | 送料连杆销 | WALKING FOOT PIN | 1 |
| 8 | 22-06-008 | 连接销螺钉 | SCREW 9/64-40 L=6 | 4 |
| 9 | 22-06-009 | 送料长摆动板 | WALKING FOOT LINK | 2 |
| 10 | 22-06-010 | 送料短摆动板 | CONNECTING LINK | 2 |
| 11 | 22-06-011 | 长摆动板连接销 | WALKING FOOT PIN | 2 |
| 12 | 22-06-012 | 送料摆动板座部件 | WALKING FOOT ADJUST LINK | 1 |
| 13 | 22-06-013 | 送料摆动板座左右销 | ADJUSTING LINK FULCRUM SHAFT | 2 |
| 14 | 22-06-014 | 左右销螺钉 | SCREW 15/64-28 L=7 | 2 |
| 15 | 22-06-015 | 挡圈组件 | RETAINING RING ASM. | 2 |
| 16 | 22-06-016 | 挡圈螺钉 | SCREW | 4 |
| 17 | 22-06-017 | 送布曲柄 | FEED ROCKER SHAFT CRANK ASM. | 1 |
| 18 | 22-06-018 | 送料曲柄销 | WALKING FOOD PIN | 1 |
| 19 | 22-06-019 | 送料曲柄螺钉 | SCREW 9/64-40 L=14 | 1 |
| 20 | 22-06-020 | 送布轴 | FEED ROCKER SHAFT CRANK ASM. | 1 |
| 21 | 22-06-021 | 牙架曲柄轴螺钉 | SCREW | 1 |
| 22 | 22-06-022 | 牙架曲柄固定螺钉 | SCREW | 1 |
| 23 | 22-06-023 | 牙架曲柄 | FEED CRACKET | 1 |
| 24 | 22-06-024 | 牙架销 | FEED BAR SHAFT | 1 |
| 25 | 22-06-025 | 抬牙送布轴轴套 | FEED RICKER SHAFT BUSHING | 2 |
| 26 | 22-06-026 | 抬牙送布轴垫圈 | WASHER | 2 |
| 27 | 22-06-027 | 送料轴轴用挡圈 | RETAINING RING | 1 |
| 28 | 22-06-028 | 抬牙轴轴用挡圈 | RETAINING RING | 1 |
| 29 | 22-06-029 | 抬牙叉形曲柄 | DRIVING SHAFT CRANK ASM.FRONT | 1 |
| 30 | 22-06-030 | 抬牙叉形曲柄螺钉 | SCREW 11/6-40 L=10.5 | 1 |
| 31 | 22-06-031 | 抬牙轴 | FEED DRIVING SHAFT | 1 |
| 32 | 22-06-032 | 抬牙后曲柄 | REAR CRACK ASM. | 1 |
| 33 | 22-06-033 | 抬牙后曲柄螺钉 | SCREW 3/16-28 L=12 | 1 |
| 34 | 22-06-034 | 牙架组件 | FEED ROCKET BASE ASM. | 1 |
| 35 | 22-06-035 | 送料牙 | FEED DOG | 1 |
| 36 | 22-06-036 | 送料牙螺钉 | SCREW 1/8-44 L=6 | 2 |
| 37 | 22-06-037 | 抬牙连杆轴位螺母 | NUT | 1 |
| 38 | 22-06-038 | 抬牙连杆轴位螺钉 | SCREW | 1 |
| 39 | 22-06-039 | 抬牙连杆 | CONNECTING ROD | 1 |
| 40 | 22-06-040 | 抬牙连杆轴用挡圈 | RETAINING RING | 1 |
| 41 | 22-06-041 | 送料轴油线 | OIL WICK | 1 |
| 42 | 22-06-042 | 抬牙轴油线 | OIL WICK | 1 |

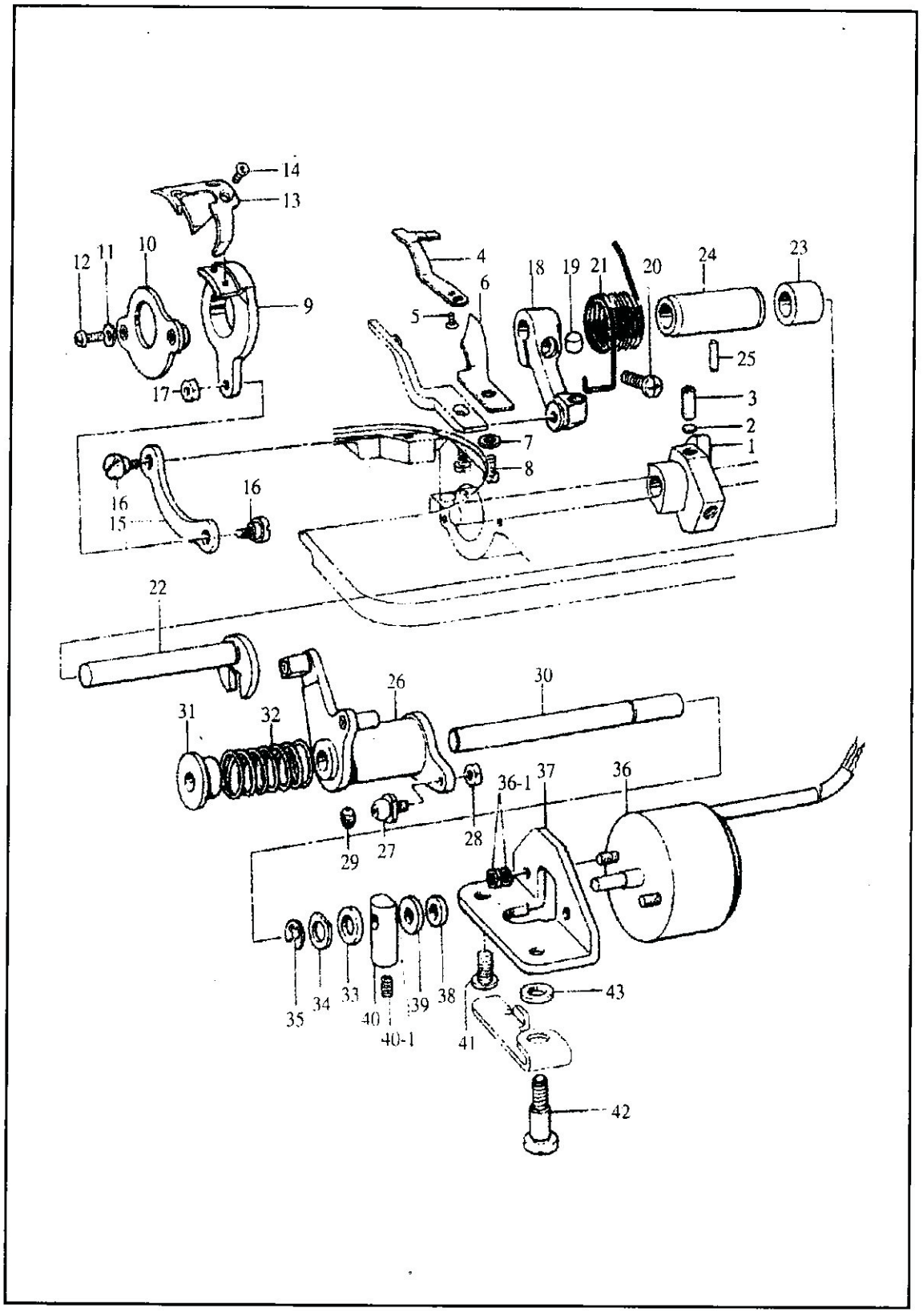
## 7. 送料调节分组件 Feed regulating components



| 序号 Ref.No | 图 号 Part Number | 名 称 | Description | 数量 QTY |
|---|---|---|---|---|
| 1 | 22-07-001 | 送料距旋钮螺钉 | SCREW 3/16-28 L=9 | 1 |
| 2 | 22-07-002 | 送料距旋钮 | FEED DIAL | 1 |
| 3 | 22-07-003 | 送料调节螺柱O形圈 | RUBBER RING | 1 |
| 4 | 22-07-004 | 送料距锁合销 | PIN | 1 |
| 5 | 22-07-005 | 送料距锁合簧 | SPRING | 1 |
| 6 | 22-07-006 | 送料调节螺柱 | FEED REGULATOR SCREW | 1 |
| 7 | 22-07-007 | 送料调节器 | FEED REGULATOR | 1 |
| 8 | 22-07-008 | 送料调节器轴套 | FEED REGULATOR BHSHING | 1 |
| 9 | 22-07-009 | 送料调节器轴端螺钉 | SCREW 3/16-28 L=9 | 1 |
| 10 | 22-07-010 | 倒送料连杆销 | FEED REGULATOR PIN | 1 |
| 11 | 22-07-011 | 连杆销螺钉 | SCREW | 2 |
| 12 | 22-07-012 | 倒送料连杆挡圈 | SNAP RING | 1 |
| 13 | 22-07-013 | 倒送料连杆 | FEED REGULATOR CONNECTING ROD | 1 |
| 14 | 22-07-014 | 倒送料连杆挡圈 | SNAP RING | 1 |
| 15 | 22-07-015 | 摆动板座复位板 | ADJUSTING LINK SPRING GUIDE | 1 |
| 16 | 22-07-016 | 复位板螺钉 | SCREW 11/64-40 L=5 | 2 |
| 17 | 22-07-017 | 拉簧固定板 | FEED REVERSE HOOK | 1 |
| 18 | 22-07-018 | 摆动板座复位簧 | ADJUSTING LINK SPRING | 1 |
| 19 | 22-07-019 | 倒送料曲柄螺钉 | FEED REVERSE ARM SCREW | 1 |
| 20 | 22-07-020 | 倒送料扳手拉簧 | FEED REVERSE SPRING | 1 |
| 21 | 22-07-021 | 倒送料曲柄部件 | FEED REVERSE ARM ASM. | 1 |
| 22 | 22-07-022 | 铁芯弹簧 | SPRING | 1 |
| 23 | 22-07-023 | 倒送料轴 | FEED REVERSE SHAFT | 1 |
| 24 | 22-07-024 | 倒送料轴套 | FEED LEVER METAL | 1 |
| 25 | 22-07-025 | 倒送料扳手螺钉 | SCREW 1/4-40 L=8 | 1 |
| 26 | 22-07-026 | 倒送料扳手定位螺钉 | SCREW 1/4-40 L=8 | 1 |
| 27 | 22-07-027 | 限位螺钉座 | RULER RETAINING PLATE | 1 |
| 28 | 22-07-028 | 限位螺钉座螺钉 | SCREW | 2 |
| 29 | 22-07-029 | 扳手限位螺钉 | SCREW | 1 |
| 30 | 22-07-030 | 扳手限位螺母 | NUT | 1 |
| 31 | 22-07-031 | 限位螺钉减震垫 | WASHER | 1 |
| 32 | 22-07-032 | 倒送料扳手 | REVERSE FEED CONTROL LEVER | 1 |
| 33 | 22-07-033 | 倒送料轴O形圈 | RUBBER RING | 1 |
| 34 | 22-07-034 | 连接销挡圈 | SNAP RING | 1 |
| 35 | 22-07-035 | 自动倒送料拉杆 | REVERSE FEED CONNECTING SHAFT | 1 |
| 36 | 22-07-036 | 曲柄长销挡圈 | SNAP RING | 1 |
| 37 | 22-07-037 | 自动倒送料曲柄组件 | CONNECTING ARM ASM. | 1 |
| 38 | 22-07-038 | 曲柄短销挡圈 | SNAP RING | 1 |
| 39 | 22-07-039 | 铁芯连杆 | REVERSE FEED CONNECTING SHAFT | 1 |
| 40 | 22-07-040 | 铁芯垫 | WASHER | 1 |
| 41 | 22-07-041 | 铁芯橡胶垫 | RUBBER PLUNGER | 1 |
| 42 | 22-07-042 | 铁芯挡圈 | SNAP RING | 1 |
| 43 | 22-07-043 | 连接销挡圈 | SNAP RING | 2 |
| 44 | 22-07-044 | 铁芯连接销 | PLUNGER ARM PIN | 1 |
| 45 | 22-07-045 | 安装螺钉 | SCREW | 1 |

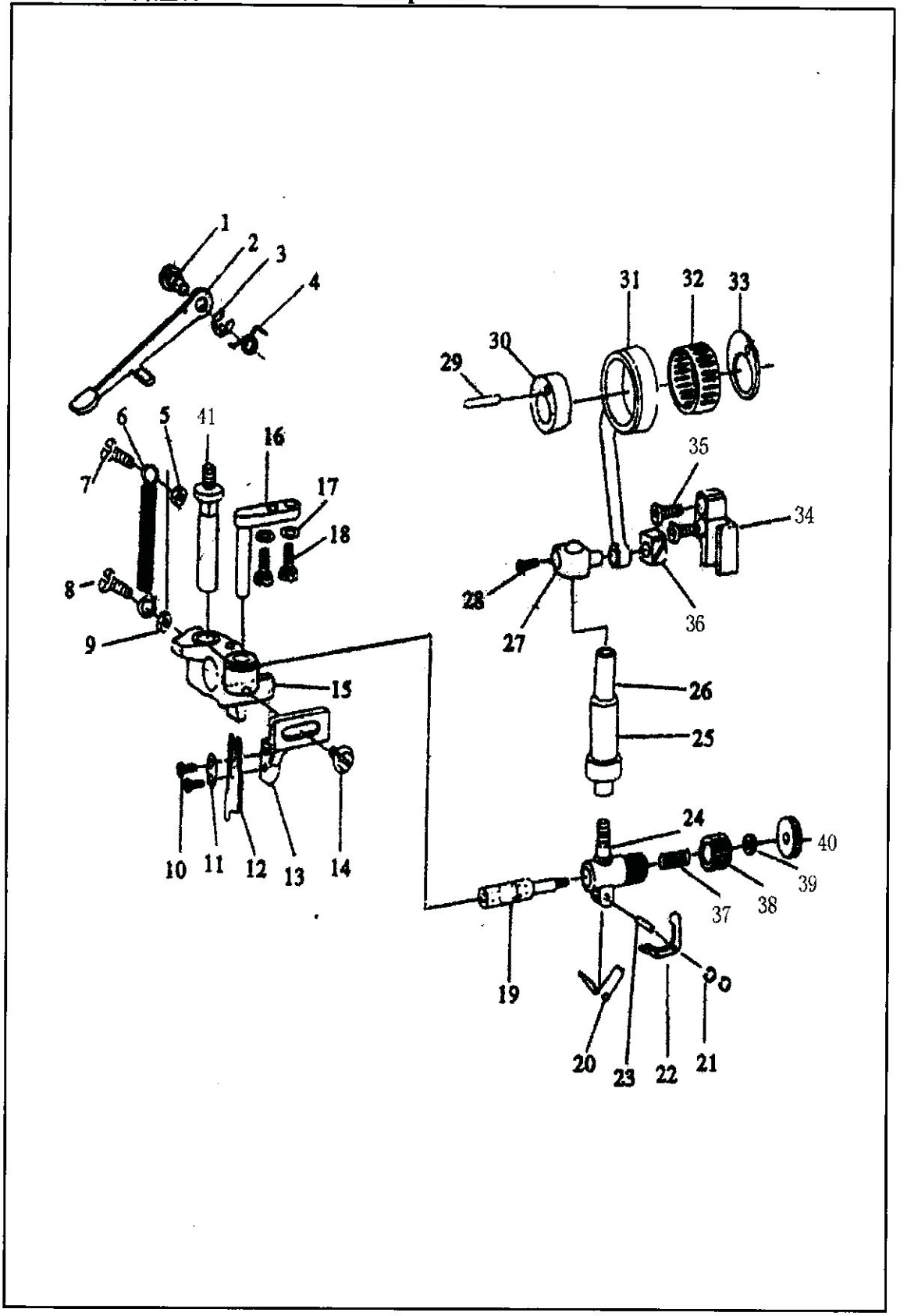
| 序号 Ref.No | 图 号 Part Number | 名 称 | Description | 数量 QTY |
|---|---|---|---|---|
| 46 | 22-07-046 | 倒送料电磁线圈组件 | REVERSE FEED MAGNET ASM. | 1 |
| 47 | 22-07-047 | 开关体组件 | REVERSE FEED SEITCH LEVER | 1 |
| 48 | 22-07-048 | 支承架安装螺钉 | SCREW 3/16-28 L=9 | 1 |
| 49 | 22-07-049 | 微动开关 | REVERSE FEED SWITCH | 1 |
| 50 | 22-07-050 | 点动开关安装板 | REVERSE FEED SWITCH PLATE | 1 |
| 51 | 22-07-051 | 点动开关盒 | REVERSE FEED SWITCH COVER | 1 |
| 52 | 22-07-052 | 点动开关盒安装螺钉 | SCREW 11/64-40 L=6 | 1 |
| 53 | 22-07-053 | 开关支承架 | REVERSE FEED SWITCH BASE | 1 |
| 54 | 22-07-054 | 开关杆销 | REVERSE FEED SWITCH SHAFT | 1 |
| 55 | 22-07-055 | 开关弹簧 | REVERSE FEED SWITCH SPRING | 1 |
| 56 | 22-07-056 | 开关定位螺钉 | SCREW | 1 |
| 57 | 22-07-057 | 支承架安装长螺钉 | SCREW | 1 |
| 58 | 22-07-058 | 支承架安装长螺钉垫圈 | WASHER | 1 |

## 8.1. 剪线分组件 Thread trimmer components
## (旋刀组件 ROUND KNIFE COMPONENTS)



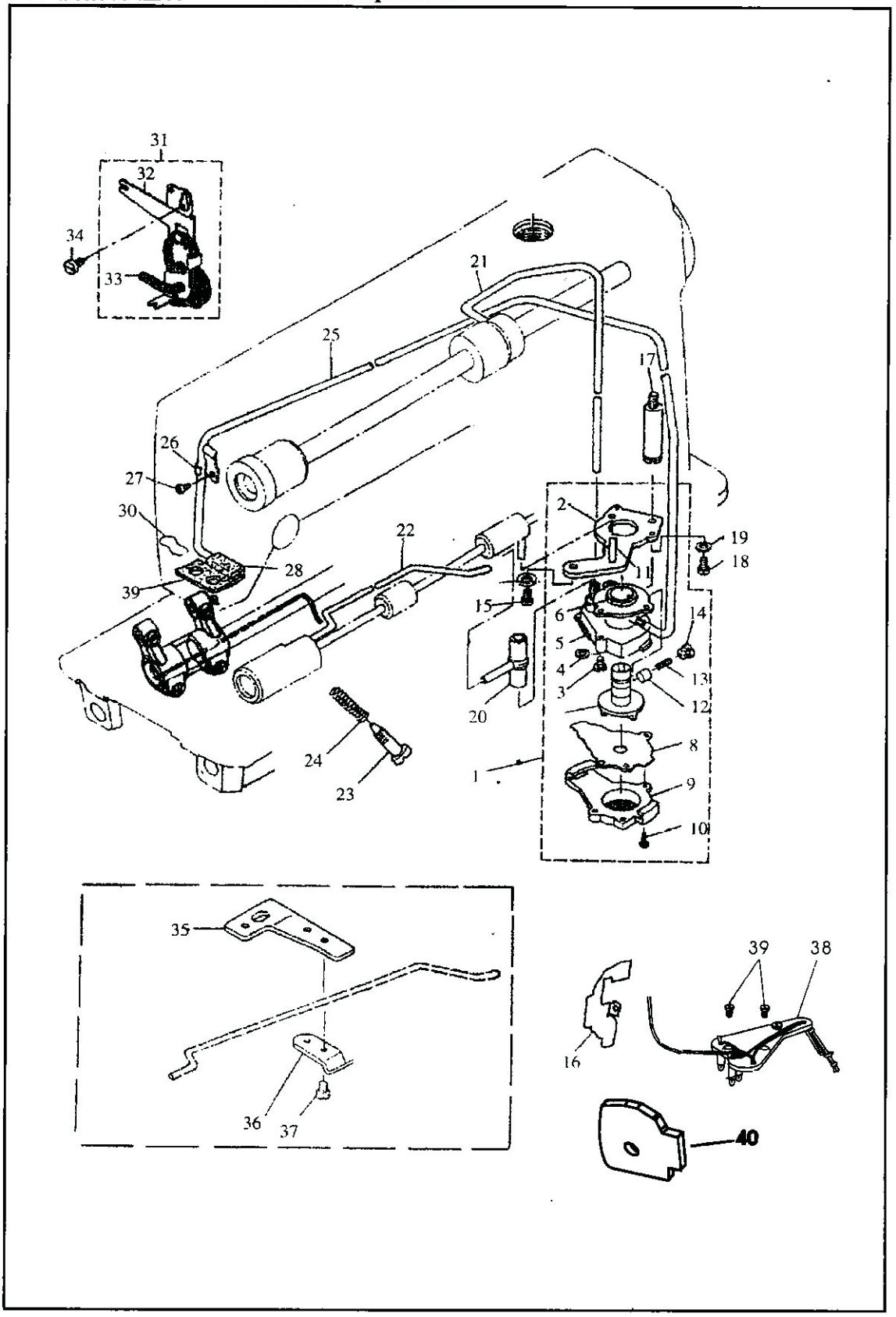
| 序号 Ref.No | 图 号 Part Number | 名 称 | Description | 数量 QTY |
|---|---|---|---|---|
| 1 | 22-08-001 | 剪线凸轮 | THREAS TRIMMER CAM | 1 |
| 2 | 22-08-002 | 剪线凸轮垫 | CAM COLLAR | 2 |
| 3 | 22-08-003 | 剪线凸轮螺钉 | SCREW | 2 |
| 4 | 22-08-004 | 定刀 | COUNTER KNIFE | 1 |
| 5 | 22-08-005 | 定刀固定螺钉 | SCREW | 1 |
| 6 | 22-08-006 | 分线器 | DISPART THREAS SHUTTLE | 1 |
| 7 | 22-08-007 | 分线器固定螺钉垫圈 | WASHER | 3 |
| 8 | 22-08-008 | 分线器固定螺钉 | SCREW | 1 |
| 9 | 22-08-009 | 动刀架 | ROUND KNIFE BRACKET | 1 |
| 10 | 22-08-010 | 刀架压板组件 | KNIFE HOLDER ASM. | 1 |
| 11 | 22-08-011 | 刀架压板螺钉垫圈 | WASHER | 2 |
| 12 | 22-08-012 | 刀架压板螺钉 | SCREW | 2 |
| 13 | 22-08-013 | 动刀 | ROUND KNIFE BRACKET | 1 |
| 14 | 22-08-014 | 动刀固定螺钉 | SCREW | 2 |
| 15 | 22-08-015 | 刀轴连杆 | KNIFE SHAFT CRACK ROD | 1 |
| 16 | 22-08-016 | 刀轴连杆螺钉 | SCREW | 2 |
| 17 | 22-08-017 | 刀轴连杆螺母 | NUT | 1 |
| 18 | 22-08-018 | 切线驱动曲柄 | TRIMMING CRANK | 1 |
| 19 | 22-08-019 | 切线驱动曲柄止动块 | BLOCK | 1 |
| 20 | 22-08-020 | 切线驱动曲柄螺钉 | SCREW | 1 |
| 21 | 22-08-021 | 复位弹簧 | REPLACE SPRING | 1 |
| 22 | 22-08-022 | 切刀驱动曲柄轴 | TRIMMING CRANK SHAFT | 1 |
| 23 | 22-08-023 | 驱动曲柄轴短套 | SHORT BUSHING | 1 |
| 24 | 22-08-024 | 切线轴套 | BUSHING | 1 |
| 25 | 22-08-025 | 切线轴套紧定螺钉 | SCREW | 1 |
| 26 | 22-08-026 | 切线凸轮曲柄组件 | TRIMMING CAM CRANK ASM. | 1 |
| 27 | 22-08-027 | 滚柱轴分组件 | ROLLER BEARING SHAFT ASM. | 1 |
| 28 | 22-08-028 | 切线凸轮曲柄滚柱螺母 | NUT | 1 |
| 29 | 22-08-029 | 切线凸轮曲柄紧定螺钉 | SCREW | 1 |
| 30 | 22-08-030 | 切刀驱动轴 | TRIMMING SHAFT | 1 |
| 31 | 22-08-031 | 扭簧端盖 | SPRING COVER | 1 |
| 32 | 22-08-032 | 剪线电磁铁复位弹簧 | SPRING | 1 |
| 33 | 22-08-033 | 切线磁铁垫圈 | WASHER | 1 |
| 34 | 22-08-034 | 切线驱动轴垫圈 | CLIP | 1 |
| 35 | 22-08-035 | 切线驱动轴挡圈 | WASHER | 1 |
| 36 | 22-08-036 | 剪线电磁铁组件 | THREAD TRIMMER SOLENOID ASM. | 1 |
| 36-1 | 22-08-037 | 剪线电磁铁螺母 | NUT | 2 |
| 37 | 22-08-038 | 剪线电磁铁安装座 | SOLENOID BASE | 1 |
| 38 | 22-08-039 | 剪线电磁铁缓冲垫 | WASHER | 1 |
| 39 | 22-08-040 | 剪线电磁铁垫圈 | WASHER | 1 |
| 40 | 22-08-041 | 剪线电磁铁连接体 | SOLENOIDCONNECTING SHAFT | 1 |
| 40-1 | 22-08-042 | 剪线电磁铁连接体固定螺钉 | SCREW | 1 |
| 41 | 22-08-043 | 剪线电磁铁安装座固定螺钉 | SCREW | 1 |
| 42 | 22-08-044 | 松线座螺钉 | SCREW | 1 |
| 43 | 22-08-045 | 松线座螺钉垫圈 | WASHER | 1 |

## 9. 切刀控制组件 Cutter contrel components



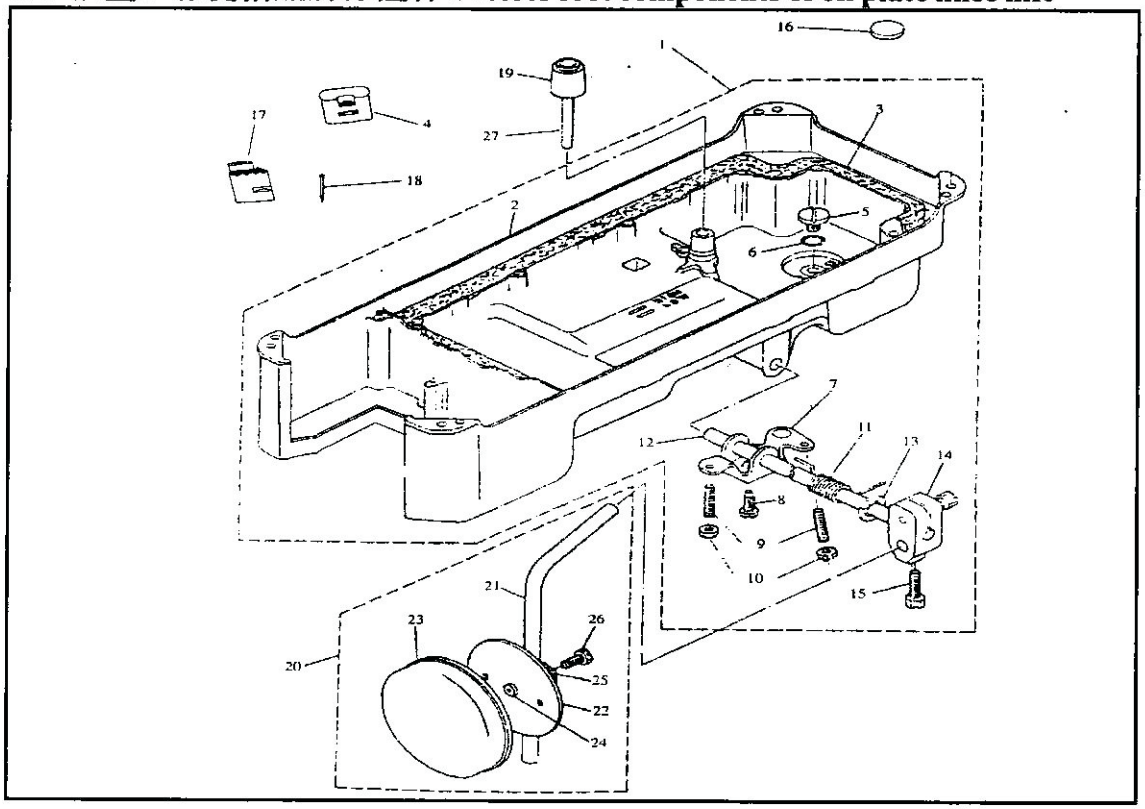
| 序号 Ref.No | 图 号 Part Number | 名 称 | Description | 数量 QTY |
|---|---|---|---|---|
| 1 | 22-09-001 | 控刀轴位螺钉 | KNIFE-CONTROLLED AXIAL SCREW | 1 |
| 2 | 22-09-002 | 控刀扳手 | KNIFE-CONTROLLED SPANNER | 1 |
| 3 | 22-09-003 | 升降板连接特制开口挡圈 | SPLIT BAFFLE RING | 1 |
| 4 | 22-09-004 | 控刀扳手扭簧 | KNIFE-CONTROLLED SPANNER SPRING | 1 |
| 5 | 22-09-005 | 导向架拉簧螺帽(上) | ORIENTED GUIDE SPRING NUT(ABOVE) | 1 |
| 6 | 22-09-006 | 导向架拉簧 | ORIENTED GUIDE SPRING | 1 |
| 7 | 22-09-007 | 导向架拉簧螺钉(上) | ORIENTED GUIDE SPRING SCREW(ABOVE) | 1 |
| 8 | 22-09-008 | 导向架拉簧螺钉 | ORIENTED GUIDE SPRING SCREW | 1 |
| 9 | 22-09-009 | 导向架拉簧螺母 | ORIENTED GUIDE SPRING NUT | 1 |
| 10 | 22-09-010 | 刀片固定螺钉 | BLADE SET SCREW | 2 |
| 11 | 22-09-011 | 切刀垫片 | CUTTER WASHER | 1 |
| 12 | 22-09-012 | 切刀 | CUTTER | 1 |
| 13 | 22-09-013 | 刀架 | KNIFE REST | 1 |
| 14 | 22-09-014 | 刀架螺钉 | KNIFE REST SCREW | 1 |
| 15 | 22-09-015 | 刀架导向架 | KNIFE REST ORIENTED GUIDE RACK | 1 |
| 16 | 22-09-016 | 导向架导轨 | GUIDE FRAME LEAD RAIL | 1 |
| 17 | 22-09-017 | 固定螺钉垫圈 | SET SCREW WASHER | 2 |
| 18 | 22-09-018 | 导向架导轨固定螺钉 | SET SCREW | 2 |
| 19 | 22-09-019 | 导向架控制销 | GUIDE FRAME CONTROL PIN | 1 |
| 20 | 22-09-020 | 杠杆簧 | LEVER SPRING | 1 |
| 21 | 22-09-021 | E型挡圈 | E TYPE RETAINER RING | 2 |
| 22 | 22-09-022 | 切刀控制杠杆 | CUTTER CONTROL LEVER | 1 |
| 23 | 22-09-023 | 杠杆连接销 | LEVER CONNECTED PIN | 1 |
| 24 | 22-09-024 | 控制销导套 | CONTROL PIN GUIDER | 1 |
| 25 | 22-09-025 | 刀杆轴套 | CUTTER BAR AXIAL BUSHING | 1 |
| 26 | 22-09-026 | 刀杆 | CUTTER BAR | 1 |
| 27 | 22-09-027 | 刀杆接头 | JOINT OF CUTTER BAR | 1 |
| 28 | 22-09-028 | 刀杆接头螺钉 | SCREW | 1 |
| 29 | 22-09-029 | 连接销 | CONNECTED PIN | 1 |
| 30 | 22-09-030 | 刀杆凸轮 | CUTTER BAR CAM | 1 |
| 31 | 22-09-031 | 刀杆连杆 | CUTTER BAR CONNECTING ROD | 1 |
| 32 | 22-09-032 | 滚针轴承 | BEARING | 1 |
| 33 | 22-09-033 | 止推垫片 | WASHER | 1 |
| 34 | 22-09-034 | 刀杆接头滑块导轨 | LEAD TRAIL | 1 |
| 35 | 22-09-035 | 导轨固定螺钉 | SCREW | 2 |
| 36 | 22-09-036 | 刀杆接头滑块 | CUTTER BAR CONNECTING ROD SLIDER | 1 |
| 37 | 22-09-037 | 刀控弹簧 | KNIFE-CONTROL SPRING | 1 |
| 38 | 22-09-038 | 导套盖 | GUIDE BUSHING COVER | 1 |
| 39 | 22-09-039 | 导柱螺帽 | NUT | 1 |
| 40 | 22-09-040 | 旋钮 | KNOB | 1 |
| 41 | 22-09-041 | 导向架导柱 | ORIENTED FRAME GUIDE PIN | 1 |

## 10. 润滑分组件 Lubrication components



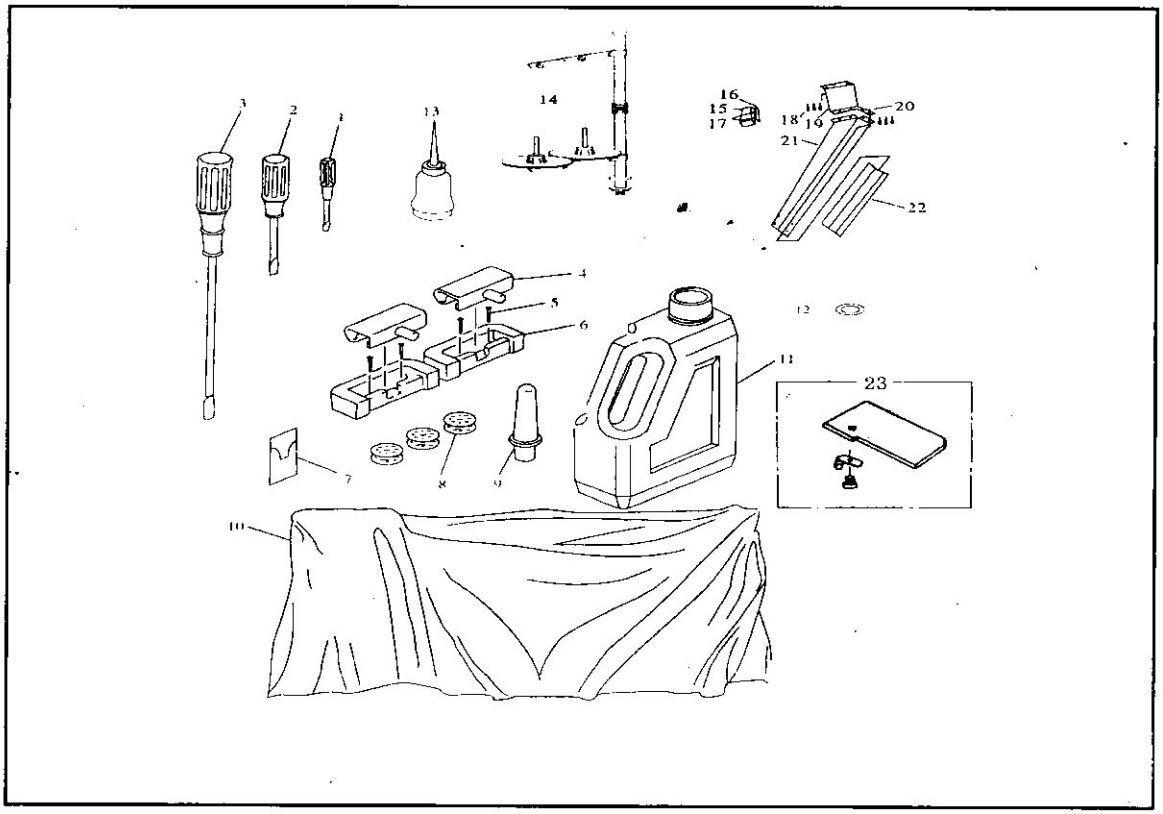
| 序号 Ref.No | 图 号 Part Number | 名 称 | Description | 数量 QTY |
|---|---|---|---|---|
| 1 | 22-10-001 | 油泵部件 | LUBRICATING OIL PUMPASM. | 1 |
| 2 | 22-10-002 | 油泵安装板 | OIL PUMP INSTALLING BASE | 1 |
| 3 | 22-10-003 | 油泵安装螺钉 | SCREW 15/64-28 L=9 | 3 |
| 4 | 22-10-004 | 油泵安装止退垫圈 | WASHER | 3 |
| 5 | 22-10-005 | 油泵体 | OIL PUMP | 1 |
| 6 | 22-10-006 | 油泵体衬套 | OIL PUMP BUSHING | 1 |
| 7 | 22-10-007 | 油泵叶轮 | OIL PUMP IMPELLER | 1 |
| 8 | 22-10-008 | 油泵叶轮托板 | OIL PUMP IMPELLER COVER | 1 |
| 9 | 22-10-009 | 油泵盖部件 | LUBRICATING OIL PUMP COVER | 1 |
| 10 | 22-10-010 | 油泵盖螺钉 | SCREW | 3 |
| 11 | 22-10-011 | 下轴供油管 | HOOK DRIVING SHAFT OIL TUBE | 1 |
| 12 | 22-10-012 | 回油柱塞 | PULUNGER | 1 |
| 13 | 22-10-013 | 柱塞簧 | PLUNGER SPRING | 1 |
| 14 | 22-10-014 | 柱塞螺钉 | SCREW | 1 |
| 15 | 22-10-015 | 油泵螺钉 | SCREW | 1 |
| 16 | 22-10-016 | 隔油板 | OIL STOPPER ASM. | 1 |
| 17 | 22-10-017 | 油泵连接螺柱 | OIL PUMP SUPPORT | 1 |
| 18 | 22-10-018 | 螺柱连接螺钉 | SCREW 11/64-40 L=9.5 | 1 |
| 19 | 22-10-019 | 油泵连接螺柱挡圈 | WASHER | 1 |
| 20 | 22-10-020 | 供油管接头 | RUBBER JOINT | 1 |
| 21 | 22-10-021 | 上轴供油管 | MAIN SHAFT OIL TUBE | 1 |
| 22 | 22-10-022 | 旋梭供油管 | OIL TUBE | 1 |
| 23 | 22-10-023 | 油量调节螺钉 | OIL ADJUSTING SCREW | 1 |
| 24 | 22-10-024 | 油量调节簧 | SPRING | 1 |
| 25 | 22-10-025 | 回油管 | OIL TETURN GUARD | 1 |
| 26 | 22-10-026 | 回油管夹 | OIL REURN TUBE HOLDER | 1 |
| 27 | 22-10-027 | 回油管夹螺钉 | SCREW 3/16-28 L=6 | 1 |
| 28 | 22-10-028 | 回油除尘毡 | ANTI-DUST OIL FELT | 1 |
| 29 | 22-10-029 | 回油毡 | OIL FELT | |
| 30 | 22-10-030 | 回油毡夹 | OIL FELT PRESSER | 1 |
| 31 | 22-10-031 | 面部油线板组件 | OIL WICK SUPPORT ASM. | 1 |
| 32 | 22-10-032 | 面部油线板 | OIL WICK SUPPORT | 1 |
| 33 | 22-10-033 | 面部油线 | OIL WICK | 1 |
| 34 | 22-10-034 | 面部油线板螺钉 | SCREW | 1 |
| 35 | 22-10-035 | 软管下支承板 | WIRE HOLDER BARCKET(LOWER) | 1 |
| 36 | 22-10-036 | 软管下支承板压板 | WIRE HOLDER | 1 |
| 37 | 22-10-037 | 软管下支承板压板螺钉 | SCREW 11/64-40 L=5 | 1 |
| 38 | 22-10-038 | 油线固定板大组件 | OIL THREAD FIXED PLATE COMPONENT | 1 |
| 39 | 22-10-039 | 油线固定板螺钉 | OIL THREAD FIXED PLATE SCREW | 2 |
| 40 | 22-10-040 | 挡油海绵 | OIL SPONGE BLOCK | 1 |

## 11. 油盘、膝提抬压脚分组件 Presser foot components of oil plate knee kift




| 序号 Ref.No | 图 号 Part Number | 名 称 | Description | 数量 QTY |
|---|---|---|---|---|
| 1 | 22-11-001 | 油盘部件 | OIL PLATE COMPONENTS | 1 |
| 2 | 22-11-002 | 油盘 | OIL PLATE | 1 |
| 3 | 22-11-003 | 油盘垫 | OIL PLATE BED | 1 |
| 4 | 22-11-004 | 机头座垫 | MACHINE HEAD BED | 2 |
| 5 | 22-11-005 | 排油孔螺钉 | OIL EXRRACTION HOLE SCREW | 1 |
| 6 | 22-11-006 | 排油孔螺钉O型圈 | "O"RING OF OIL EXTRACTING HOLE SCREW | 1 |
| 7 | 22-11-007 | 抬压脚双向曲柄 | TWO-WAY CRANK OF LIFTING PRESSOR FOOT | 1 |
| 8 | 22-11-008 | 双向曲柄螺钉 | SCREW | 1 |
| 9 | 22-11-009 | 双向曲柄限位调节螺钉 | BANKING SCREW | 2 |
| 10 | 22-11-010 | 双向曲柄限位调节螺母 | BANKING NUT OF TWO-WAY CRANK | 3 |
| 11 | 22-11-011 | 双向曲柄扭簧 | TWISTING SPRING | 1 |
| 12 | 22-11-012 | 抬压脚轴 | LIFTING PRESSOR FOOT SHAFT | 1 |
| 13 | 22-11-013 | 抬压脚轴开口挡圈 | OPEN SHIELD RING | 1 |
| 14 | 22-11-014 | 抬压脚操纵杆接头 | OPERATING BAR HEAD OF LIFTING PRESSOR FOOT | 1 |
| 15 | 22-11-015 | 操纵杆接头螺钉 | OPERATING BAR HEAD SCREW | 2 |
| 16 | 22-11-016 | 油盘磁铁 | OIL PLATE MAGNET | 1 |
| 17 | 22-11-017 | 油盘支座 | OIL PLATE SEAT | 2 |
| 18 | 22-11-018 | 油盘座钉 | OIL PLATE NAIL | 4 |
| 19 | 22-11-019 | 抬压脚顶销 | TOP PIN OF LIFTING PRESSOR FOOT | 1 |
| 20 | 22-11-020 | 操纵杆部件 | OPERATING BAR COMPONENTS | 1 |
| 21 | 22-11-021 | 操纵杆 | OPERATING BAR | 1 |
| 22 | 22-11-022 | 操纵板 | OPERATING P;ATE | 1 |
| 23 | 22-11-023 | 操纵板软垫 | SOFT CUSHION OF OPERATING BAR | 1 |
| 24 | 22-11-024 | 操纵板垫 | OPERATING BAR BED | 1 |
| 25 | 22-11-025 | 操纵杆接头 | OPERATING BAR TIP | 1 |
| 26 | 22-11-026 | 接头螺钉 | TIP SCREW | 1 |

## 12. 附件 Auxiliaries



| 序号 Ref.No | 图 号 Part Number | 名 称 | Description | 数量 QTY |
|---|---|---|---|---|
| 1 | 22-12-001 | 螺丝刀（小） | SCREW DRIVER,SMALE | 1 |
| 2 | 22-12-002 | 螺丝刀（中） | SCREW DRIVER,MIDDLE | 1 |
| 3 | 22-12-003 | 螺丝刀（大） | SCREW DRIVER,LARGE | 1 |
| 4 | 22-12-004 | 机头连接钩部件 | HINGE COMPL | 2 |
| 5 | 22-12-005 | 机头连接钩座钉 | NAIL | 4 |
| 6 | 22-12-006 | 机头连接钩座 | RUBBER CUSHION | 2 |
| 7 | 22-12-007 | 机针 | NEEDLE | 1包 |
| 8 | 22-12-008 | 梭心 | BOBBIN | 3 |
| 9 | 22-12-009 | 机头支柱 | FRAME SUPPORT BAR | 1 |
| 10 | 22-12-010 | 机头罩 | FRAMEVINYL COVER | 1 |
| 11 | 22-12-011 | 油箱部件 | OIL BOTTLE WITH OIL | 1 |
| 12 | 22-12-012 | 橡胶轮 | RUBBER RING | 1 |
| 13 | 22-12-013 | 小油壶 | OILER ASM. | 1 |
| 14 | 22-12-014 | 二线架部件 | THREAS STAND ASM. | 1 |
| 15 | 22-12-015 | 导屑板 | CHIP BOARD GUIDE | 1 |
| 16 | 22-12-016 | 导屑板垫 | CHIP BOARD PAD GUIDE | 1 |
| 17 | 22-12-017 | 导屑板螺钉 | CHIP BOARD SCREWS GUIDE | 2 |
| 18 | 22-12-018 | 导屑滑板支架木螺钉 | SCREW | 3 |
| 19 | 22-12-019 | 导屑滑板支架 | CRUMBS SLIDE BRACKET | 1 |
| 20 | 22-12-020 | 导屑滑板螺钉 | DEBRIS SLIDE GUIDE SCREW | 4 |
| 21 | 22-12-021 | 导屑滑板 | CRUMBS SKATEBOARD | 1 |
| 22 | 22-12-022 | 导屑连接滑板 | CRUMBS CONNECTION SKATEBOARD | 1 |
| 23 | 22-12-023 | 排屑孔盖板组件 | CLEARANCE HOLE COVER COMPONENTS | 1 |