

Reta
仿手工缝纫机

HAND-STITCH SEWING MACHINE

8350 SERIES

Westman

W-8350D

使用说明书&零件样本

Operation instruction & Parts Book

重要安全事项

此缝纫机在有的国家（设置场所）由于该国的安全规定而被禁止使用。同时，技术服务也同样被禁止。

1. 使用此缝纫机时，必有遵守包括如下项目的基本安全措施。
2. 使用此缝纫机之前，请阅读本使用说明书在内的所有指示文件。同时应将此使用说明书妥善保管，以便能够随时查阅。
3. 此缝纫机应与贵国的有关安全规定一起使用。
4. 使用此缝纫机和缝纫机动作中，所有的安全装置应安装到规定的位置。没有安装规定的安全装置的缝纫机禁止使用。
5. 此缝纫机应由接受过培训的操作人员来操作。
6. 使用缝纫机时，建议戴安全防护眼镜。
7. 发生下列情况时，应立即关掉电源开关，或拔下电源插头：
 - 7-1 机针、分离器等穿线和更换弯针时。
 - 7-2 更换机针、压脚、针板、分离器、送布牙、护针器、支架、布导向器等。
 - 7-3 修理时。
 - 7-4 工作场所无人或者离开工作场所时。
 - 7-5 使用离合马达时，请等待马达完全停止之后再行。
8. 缝纫机以及附属装置使用的机油、润滑油等液体流入眼睛或溅到皮肤上时，或被误饮时，应立即清洗有关部份并去医院治疗。

9. 禁止用手触摸打开了缝纫机开关通电的零件或装置。
10. 有关缝纫机的修理、改造、调整应由受过专门训练有技术人员或专家来进行。
11. 一般的维修保养应由受过训练的人员来进行。
12. 有关缝纫机的电气方面的修理、维修应由有资格的电气技术人员或专家的监督和指导下进行。
13. 修理、保养有关空气、气缸等压缩空气的零件时，应切断空气压缩机供气源后进行。如有残留压缩空气时，应放掉压缩空气。
但是受过相当训练的技术人员或专家进行有关调整或确认动作时除外。
14. 缝纫机的使用期间应定期进行清扫。

15. 为了正常安全运转，应安装地线。同时应在不受高频焊接机等强口音频影响的环境下使用。

16. 电源插头应让具有电气专门知识的人来安装。电源插头必须连接到接地插座上。

17. 缝纫机指定用途以外不能使用。

18. 对缝纫机的改造、变更应符合安全规格，并采取有效的安全措施。另外，对于有关改造和变更，本公司概不负责。

19. 本使用说明书上采用以下2个警告符号。



有损伤操作人员、维修人员的危险。



安全上需要特别加以注意的事项。

IMPORTANT SAFETY INSTRUCTIONS

Putting sewing systems into operation is prohibited until it has been ascertained that the sewing systems in which these sewing machines will be built into, have conformed with the safety regulations in your country. Technical service for those sewing systems is also prohibited.

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

Whenever you find a failure of any of electrical components, immediately stop the machine.
13. Before making repair and maintenance works on the machine equipped with pneumatic parts such as an air cylinder, the air compressor has to be detached from the machine and the compressed air supply has to be cut off. Existing residual air pressure after disconnecting the air compressor from the machine has to be expelled. Exceptions to this are only adjustments and performance checks done by appropriately trained technicians or specially skilled personnel.
14. Periodically clean the machine throughout the period of use.
15. Grounding the machine is always necessary for the normal operation of the machine. The machine has to be operated in an environment that is free from strong noise sources such as high-frequency welder.
16. An appropriate power plug has to be attached to the machine by electric technicians. Power plug has to be connected to a grounded receptacle.
17. The machine is only allowed to be used for the purpose intended. Other uses are not allowed.
18. Remodel or modify the machine in accordance with the safety rules/standards while taking all the effective safety measures. It assumes no responsibility for damage caused by remodeling or modification of the machine.
19. Warning hints are marked with the two shown symbols.



Danger of injury to operator or service staff



Items requiring special attention

安全使用缝纫机的注意事项



危險

1. 为了防止发生触电事故，请不要在打开电源的状态下，打开电气箱盖及触摸电气箱内的零件。



注意

1. 为了防止人身事故的发生，请不要在卸下皮带防护罩、手指防护器等安全装置的状态下运转缝纫机。
2. 为了防止被卷入机器的人身事故，缝纫机运转中请不要将手指、头发、衣服靠近皮带轮、V形皮带、马达，也不要东西放到机器上面。
3. 为了防止人身事故的发生，打开电源时以及缝纫机运转中，请不要把手指放到机针的附近。
4. 为了防止人身事故的发生，缝纫机运转中请不要把手指放到挑线杆外罩内。
5. 缝纫机操作中，弯针高速的运转。为了防止手受到伤害，运转中请绝对不要把手靠近弯针。
6. 为了防止人身事故的发生，放倒缝纫机或返回原来位置时，要注意不要夹住手。
7. 为了防止突然的起动造成人身事故，放倒缝纫机时，或卸皮带罩和V形皮带时，请一定要关掉电源。
8. 使用伺服马达时，缝纫机停止马达无声音。为了防止意外的起动造成人身事故，请注意不要忘记关电源。
9. 为了防止触电事故，卸下电源地线的状态，请不要运转缝纫机。
10. 为了防止触电的损坏电气零件，拔电源的插头时，请先关掉机器电源开关。

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

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开车前的注意事项:

BEFORE OPERATION

- 1.油盘内未加油绝不能开车。
- 2.机器运转时,从上轮外侧看转向应为逆时针方向,注意,不能倒转。
- 3.在第一月中,不要选用大尺寸的电动机皮带轮。
- 4.确认电动机标牌上所标电压及相位是否正确。
- 1.Never operate the machine unless its oil pan has been filled with oil.
- 2.After setting up the machine, check the direction of motor rotation, to check it, turn the handwheel by hand to bring the needle down, and turn the power switch ON while observing the handwheel. (The handwheel should turn counterclockwise as observed from the handwheel side.)
- 3.Do not use a larger motor pulley for the first on month.
- 4.Confirm that the voltage and phase (single or 3- phase) are correct by checking them against the ratings shown on the motor nameplate.

使用注意事项:

OPERATION PRECAUTIONS

- 1.接通电源开关或机器运转时,请勿将手放到针的下部。
- 2.机器运转时,请勿将手指伸入挑线杆护罩内。
- 3.机头翻动及拆三角皮带时,一定要切断电机开关。
- 4.操作者离开机器时,必须切断电源。
- 5.机器运转期间,注意不允许任何人的头或手以及任何东西靠近上轮“V”形皮带、绕线轮和电动机。
- 6.装拆皮带罩,防护罩,或者其它保护装置时,请勿开动机器。
- 7.不要用香蕉水等油漆稀释剂擦洗机头表面。
- 1.Keep your hands away from the needle when you turn the power switch ON or while the machine is operating.
- 2.Do not put your fingers into the thread take - up cover while the machine is operating.
- 3.Be sure to turn the power switch OFF before tilting the machine head or removing the V belt.
- 4.When an operation leaves from the machine, make sure to turn off the power.
- 5.During operation, be careful not to allow your or any other person's head or heads to come close to the handwheel, V belt, bobbin winder or motor. Also, do not place anything close to them. Doing so may be dangerous.
- 6.If your machine is provided with a belt cover, finger guard or any other protectors, do not operate your machine with any of them removed.
- 7.Don't clean the face of machine head with thinner.

1.机器的安装(图1、图2、图3、图4)

1.INSTALLATION (Fig.1, Fig.2, Fig.3, Fig.4)

* 油盘安装:

- 1) 油盘应搁在工作台凹槽四角。
- 2) 如图所示,将两只油盘支座①用油盘座钉②固定在A一边(朝操作者一边),将两只油盘座垫③用油盘座钉②固定在B一边(用机头连接钩接合一边),最后把油盘④放在其上。(图1图2)
- 3) 将机头连接钩①放入底板孔内,与台板的机头连接钩座②相嵌合,再将机头放到四只角的机头座垫③上。(图3图4)

* Installing the oil pan

- 1) The oil pan should rest on the four corners of the machine table groove.
- 2) Fix two rubber seats ① on side A (operator's side) using nails ② as illustrated above. Fix two cushion seats ③ on side B (hinge side) using nails ②. Then place oil pan ④ on the fixed seats. (Fig.1, Fig.2)
- 3) Fix hinge ① into the opening in the machine bed, and fit the machine head to table rubber hinge ② before placing the machine head on cushions ③ on the four corners. (Fig.3, Fig.4)

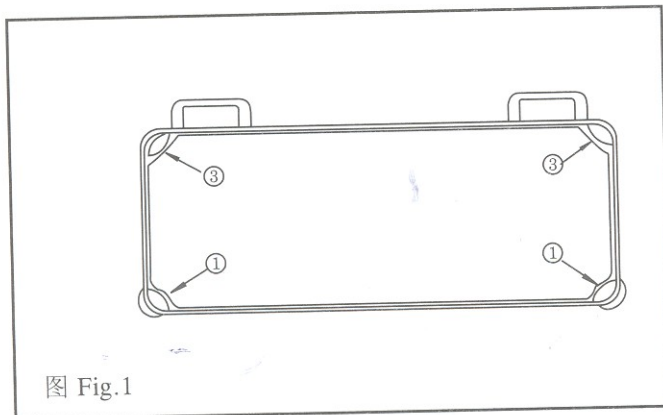


图 Fig.1

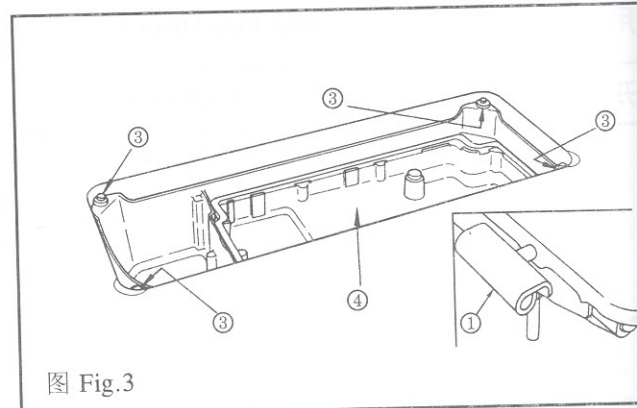


图 Fig.3

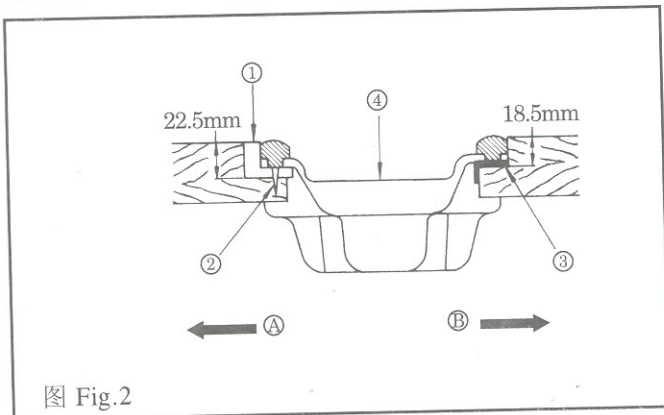


图 Fig.2

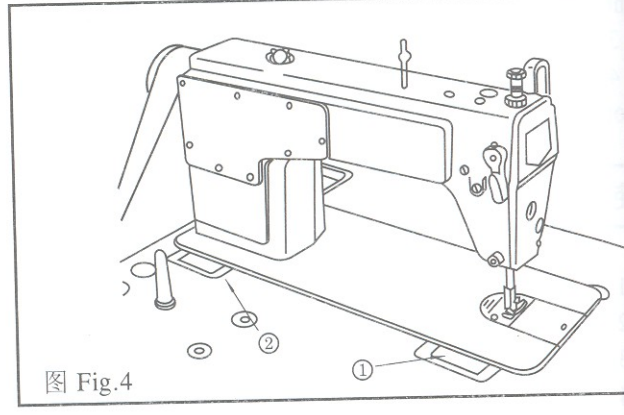


图 Fig.4

2.机器的润滑(图 5、图 6) 2.LUBRICATION (Fig.5, Fig.6)

1.润滑须知:(图 5)

* 开车前:

- 1) 向油盘①内加缝纫机油(7号白油)至 HIGH 记号部位A。(图 5)
- 2) 当油面低于 LOW 记号B, 应再加油。
- 3) 加油后, 开动机器, 应看到油夜飞溅到油窗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。

* 注意:

使用新机器或者长期未使用过的机器时, 应在每分钟 1000-1500针的状态下使机器进行十分钟左右的适应性运转。

2.调节面部油量: (图 6)

- 1) 转动油量调节销①, 可以调节挑线曲柄②的供油量。
- 2) 油量调节销朝 B 方向转动, 刻点 A 靠近挑线曲柄时, 油量达到最小值。
- 3) 油量调节销朝 C 方向转动, 刻点 A 背离挑线曲柄时, 油量达到最大值。

1.Information on lubrication (Fig.5)

* Before starting the machine

- 1) Fill oil pan ① with sewing machine oil (7 white oil) up to HIGH mark A.
- 2) When the oil levellers below LOW mark B, refill the oil pan with the specified oil.
- 3) When you operate the machine after lubrication, you will see splashing oil through oil sight window ②. 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 1,000-1,500s.p.m. for about 10 minutes for the purpose of break-in.

2.Adjusting the amount of oil supplied to the face plate parts.(Fig.6)

- 1) Adjust the amount of oil supplied to the thread take-up and needle bar crank ② by turning adjust pin ①.
- 2) The minimum amount of oil is reached when marker dot A is brought close to needle bar crank ② by turning the adjust pin in direction B.
- 3) The maximum amount of oil is reached when marker dot A is brought to the position just opposite from the needle bar crank by turning the adjust pin in direction C.

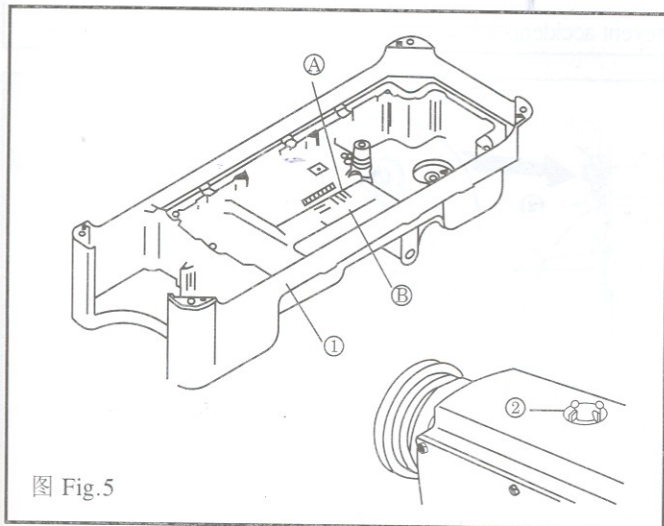


图 Fig.5

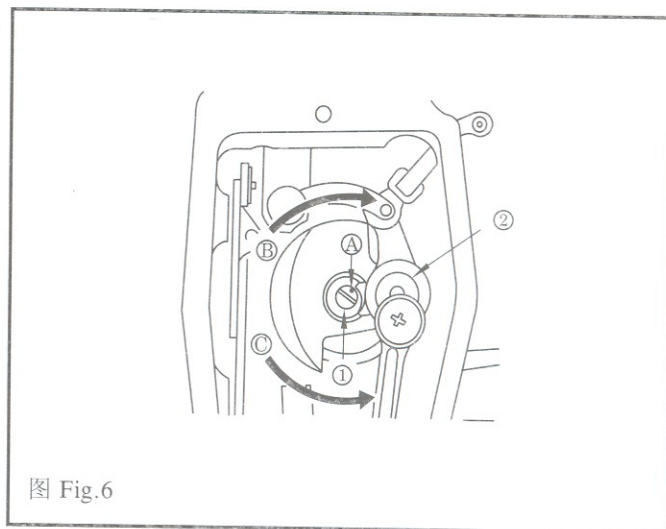


图 Fig.6

3. 机针的装法 (图 10)

3. ATTACHING THE NEEDLE (Fig.10)

* 在装机针前，必须切断电动机电源。

标准用针为 DP x 5# 18。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。
- 6) 将勾针 ③ 插入针孔底部，直到插不进为止，拧紧支针螺钉 ④。
- 7) 务必使勾针 E 正对机针。

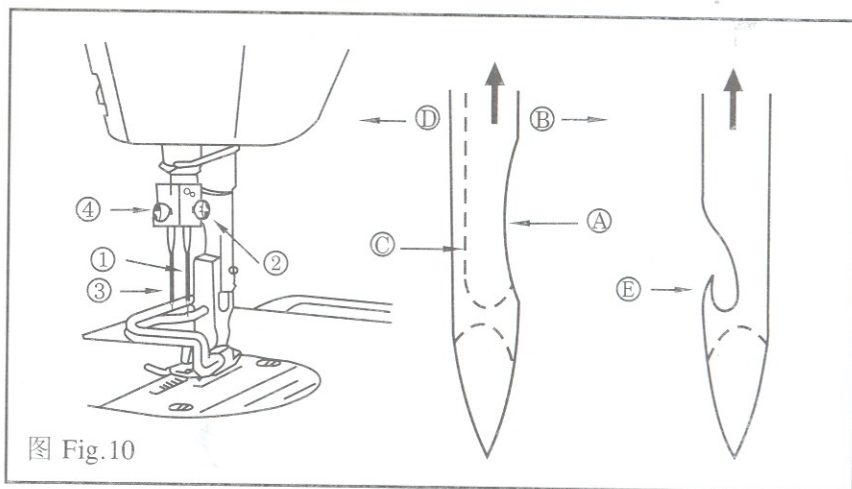


图 Fig.10

* Turn the motor power OFF before starting to attach the needle.

A needle of DPx 5# 18 should be used.

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

- 1) Turn the handwheel until the needle bar reaches the highest point of its stroke.
- 2) Loosen screw ②, and hole needle ① with 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 on further.
- 4) Securely tighten screw ②.
- 5) Check that long groove C of the needle is facing exactly to the left in direction D.
- 6) Insert the needle ③ in the direction until it will go on further. Securely tighten screw ④.
- 7) Check that groove E of the needle ③ is facing exactly to the needle ①.

4.面线的穿法 (图 12)

4.THREADING THE MACHINE HEAD (Fig.12)



注意：为了防止意外的起动造成的事故，请关掉电源后再进行。



WARNING:

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

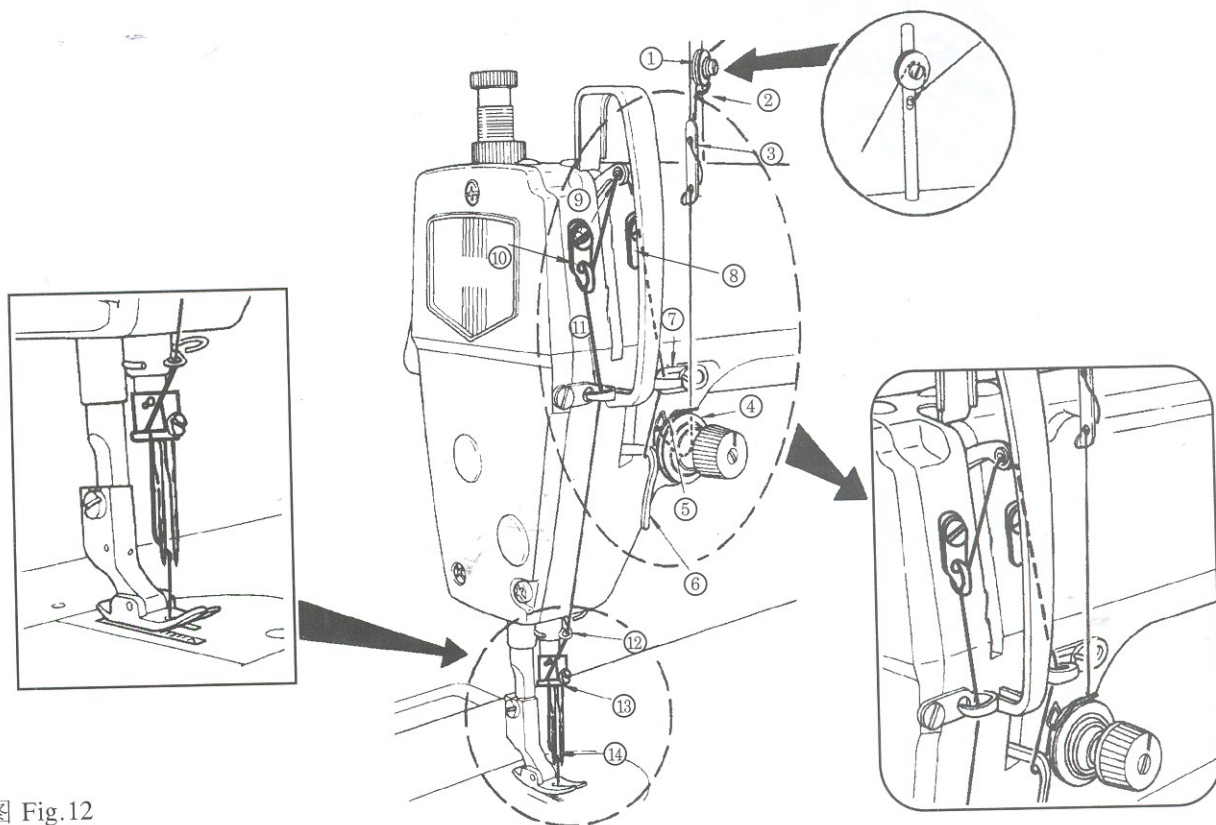


图 Fig.12

5.针距的调节 (图 13)

5. ADJUSTING THE STITCH LENGTH (Fig.13)



注意：为了防止意外的起动造成的事故，请关掉电源后再进行。



WARNING:

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

1) 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。

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

2) The dial calibration is in millimeters.

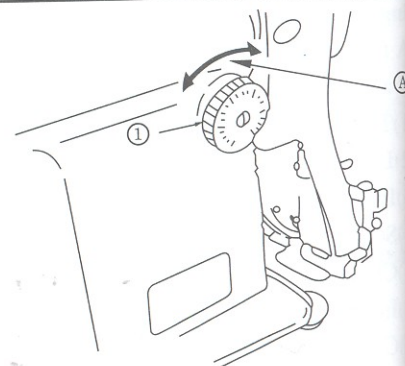


图 Fig.13

6.缝线张力 (图 14)

6. THREAD TENSION (Fig,14)

1. 张力的调节:

- 1) 根据不同的缝制条件, 用夹线螺母来调整张力。
- 2) 若把螺母①按顺时针方向 (即A 方向) 转动时, 张力将增大。
- 3) 若把螺母①按逆时针方向 (即 B 方向) 转动时, 张力将减少。

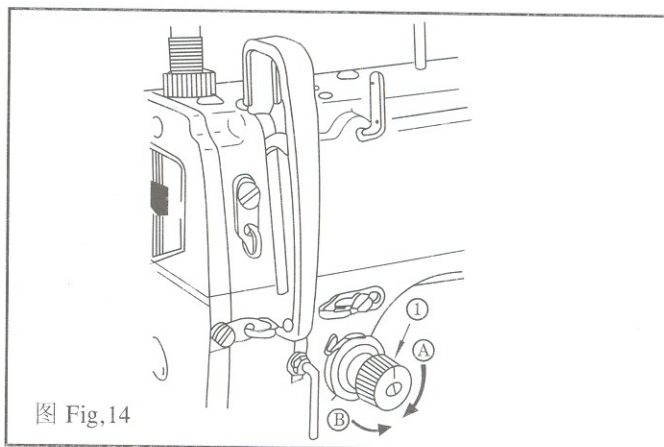


图 Fig.14

1.Adjusting the needle thread tension

- 1)Adjust the needle thread tension using tension adjust nut ① according to the sewing specifications.
- 2)As you turn nut ① clockwise (in direction A), the needle thread tension will increase.
- 3)As you turn nut ① counterclockwise (in direction B), the tension will decrease.

7.挑线簧 (图 15)

7. THREAD TAKE-UP SPRING (Fig.15)

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少。

2.改变挑线簧①的张力:

- 1) 旋松定位螺钉②, 取出夹线器 (组件)⑤。
- 2) 旋松定位螺钉④, 并转动夹线螺钉③。
- 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, 挑线簧的张力将减少。

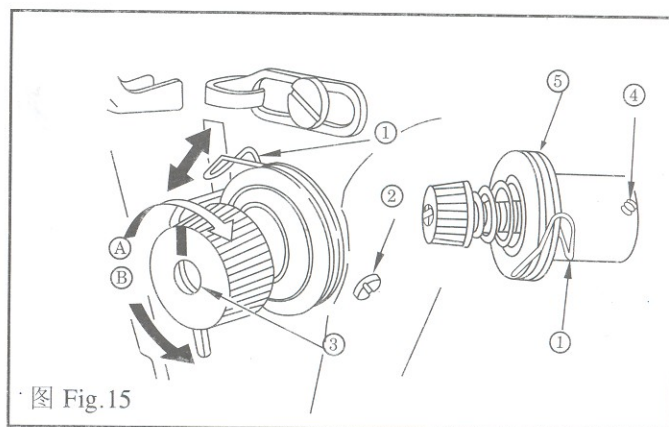


图 Fig.15

1.Changing the stroke of thread take-up spring ①

- 1)Loosen setscrew ②.
- 2)As you turn tension post ③ clockwise (in direction A), the stroke of the thread take-up spring will be increased.

2.Changing the pressure of thread take-up spring ①

- 1)Loosen setscrew ②, and take out tension asm ⑤.
- 2)Loosen setscrew ④ ,and remove tension post ③.
- 3)As you turn tension post ③ clockwise (in direction A), the pressure will be increased.
- 4)As you turn the post counterclock wise (in direction B),the pressure will be decreased.

8.压脚扳手 (图 16)

8.HAND LIFTER (Fig.16)

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 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。

1)To stop the machine with its presserfoot up, turn hand lifter ① in direction A.

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 ① is turned down in direction B.

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

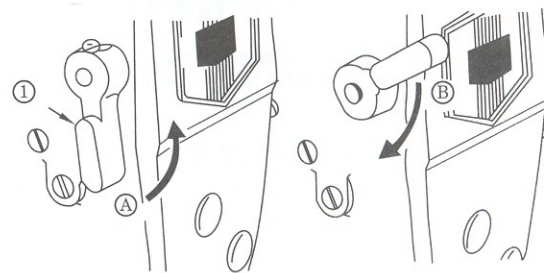


图 Fig.16

9.压脚压力的调节 (图 17)

9.PRESSER FOOT PRESSURE (Fig.17)

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。(特殊的7公斤)

1)Loosen nut ②. As you turn presser spring regulator ① clockwise (in direction A), the presser foot pressure will be increased.

2)As you turn the presser spring regulator counterclockwise (in direction B), the presser will be decreased.

3)After adjustment, tighten nut ②.

4)For general fabrics, the standard height of the presser spring regulator is 29 to 32mm (5kg). (For the model it is 7kg.)

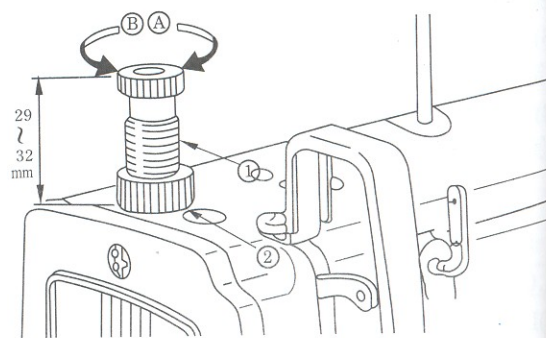


图 Fig.17

10.送料相位的调节 (图 18)

10.ADJUSTING THE FEED TIMING (Fig.18)



注意：为了防止意外的起动造成的事故，请关掉电源后再进行。



WARNING:

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

1) 旋松送料偏心凸轮①上的定位螺钉②和③，将送料偏心凸轮①调到适当的位置，然后拧紧定位螺钉。

2) 在标准相位情况下，当送料牙从针板面下降时，送料牙上端，针孔上端和针板上端面对齐。

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，在减慢送料相位，可将送料偏心轮朝箭头相反方向移动。

* 注意：

若送料偏心轮移动过多，则会引起断针。

1) Loosen two setscrews ① and ③ on feed eccentric cam ①, properly position the eccentric cam. Then retighten the setscrews.

2) To obtain the top of the feed dog with the top of the hole on the needle and the top of the throat plate.

3) To advance the feed timing in order to prevent uneven material feed, move the feed eccentric cam in the direction of the arrow.

4) To delay the feed timing in order to increase stitch tightness, move the feed eccentric cam in the opposite direction from the arrow.

* If moving the feed eccentric cam to far, the needle will be break.

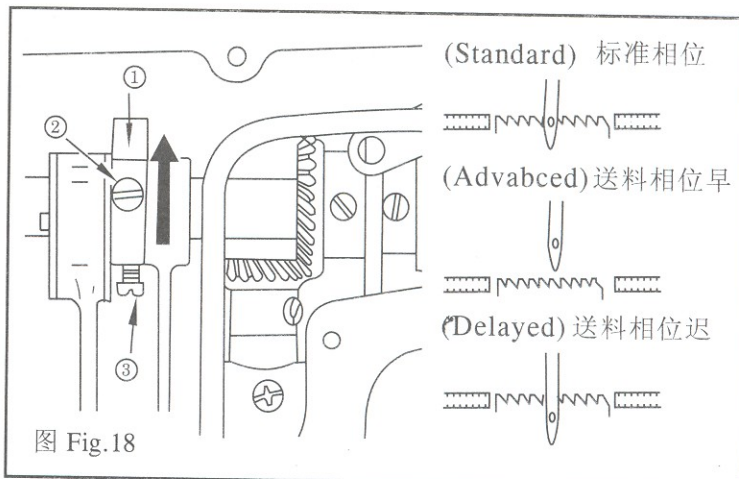


图 Fig. 18

11.送料牙的高度 (图19)

11.HEIGHT OF THE FEED DOG (Fig.19)

1) 送料牙应比针板高出0.8-0.9 毫米。对厚料而言，其高出为0.95-1.05毫米。

2) 缝薄料的情况下，如果送料牙过分凸出会导致缝料起皱。(推荐送料牙突出量：0.7-0.8毫米)

3) 调节送料牙的高度：

①旋松抬牙叉形曲柄①的坚固螺钉②。

②上下移动牙架进行调节。

③旋紧曲柄螺钉②。

* 注意：

若曲柄螺钉紧固压力太小，会使抬牙叉形曲柄磨损。

①送料牙②针板

1) The feed dog is factory-adjusted so that it juts out from the throat plate surface 0.8mm to 0.9mm. For heavy-weight materials out 0.95mm to 1.05mm.

2) If the feed dog juts out too much, puckering may result when sewing light-weight materials. (Recommended protrusion: 0.7mm to 0.8mm)

3) To adjust the height of the feed dog:

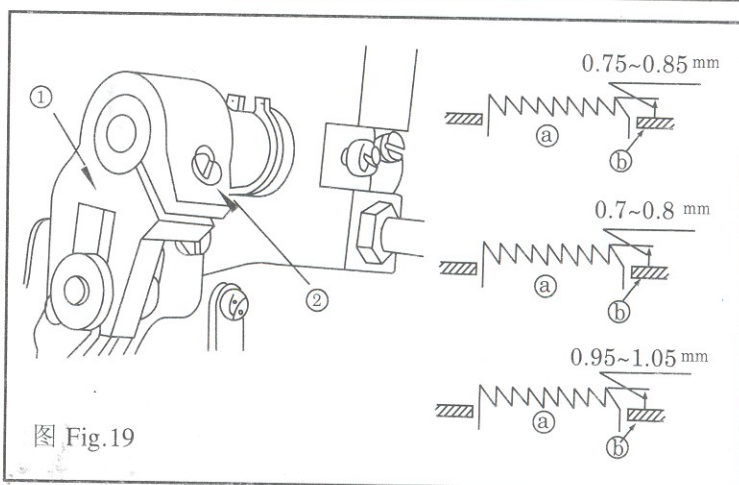


图 Fig. 19

- (1) Loosen screw ② of crank ①.
- (2) Move the feed bar up or down to make adjustment.
- (3) Securely tighten screw ②.

*** Precaution**

If the screw is tighten too secutrly, the crank will be a braded.

③ Feed dog, ⑥ Throat plate.

12. 针与弯针的关系 (图 20)

12. NEEDLE-TO-LOOPER RELATIONSHIP (Fig.20)



注意：为了防止意外的起动造成的事故，请关掉电源后再进行。



WARNING:

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

1) 钩线弯针的调整

当机针③向下运动到最低位置后,再回升1.5毫米时钩线弯针①的针尖应正好运动到机针中心线位置,这时钩线弯针的钩尖高于针孔上边2毫米,钩尖平面与机针缺口底部的间隙是0.05-0.1毫米,调节方法是松开钩线凸轮和钩线针架的螺钉进行调节。

2) 送线弯针的调整

转动上轮,使送线弯针架运动到左极限,松开送线弯针调节螺钉,调好送线弯针②的左右位置,然后松开送线弯针螺钉调整送线弯针的前后位置。

3) 送线弯针和钩线弯针的同步调整

松开送线凸轮上的二个紧固螺钉,转动上轮,使钩线弯针的勾尖运动到机针中心线位置。再沿下轴转动方向转动送线弯针凸轮,使送线弯针的针尖向前运动到直钩针中心线位置。紧固送线弯针凸轮上的二个紧固螺钉。送线弯针和钩线弯针的配合是这台缝纫机的重点,必须反复细致地调整。

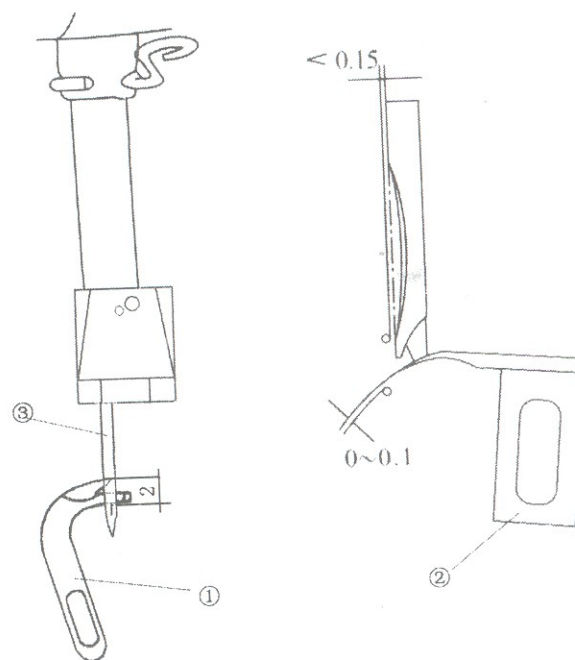


图 Fig.20

1) The adjustment of the hooking looper

When the needle ③ moves downward the lowest position and goes up 1.5mm, the hooking looper ① point should just reach the center line of the needle, which the hooking looper point is higher than the needle hole 2mm and the intervals between the hooking looper point plane and jag bottom of the needle is 0.15-0.1mm, the regulating method is to unclamp and regulate screws of hook rack.

2) The adjustment of feeding looper

It moves the feeding looper rack to the left limit by rotating upper wheel, then loosens the feeding looper ② to regulate its position and adjust the right-and-left position, at last it loosens the feeding looper to regulate the screws to adjust its around position.

3) The synchronous adjustment of the feeding & hook looper

Please unclamp two fastening screws of the feeding cam and rotate the upper wheel until the hook looper point reaches the center line of the needle, then rotate the feeding looper cam along the lower shaft until the feeding looper point moves to the center line of the needle to fasten the two tightening screws of feeding cam. It is vital for the machine to assort the feeding looper carefully and iteratively.

13. 压杆高度的调节(图 21)

13.ADJUSTING THE HEIGHT OF THE PRESSER BAR (Fig.21)



注意：为了防止意外的起动造成的事故，请关掉电源后再进行。



WARNING:

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

1) 旋松压杆导架紧固螺钉①，调节压杆高度与压脚角度。

2) 调节后，拧紧紧固螺钉。

1) Loosen setscrew①, and adjust the presser bar height and the angle of the presser foot.

2) After adjustment, securely tighten the setscrew.

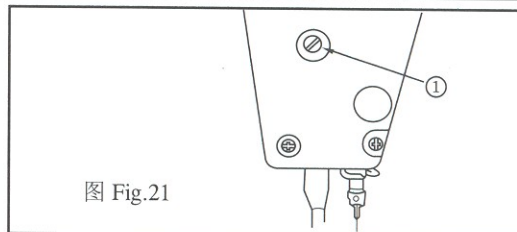


图 Fig.21

14. 挑线杆挑线量的调节(图 22)

14. ADJUSTING THE THREAD TAKE-UP STROKE(Fig.22)



注意：为了防止意外的起动造成的事故，请关掉电源后再进行。



WARNING:

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

1) 缝制厚料时，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朝右方向 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。

1) When sewing heavy-weight materials, move thread guide ① to the left in direction A to increase the length of thread pulled out by the thread take-up.

2) When sewing light-weight materials, move thread guide ① to the right in direction B to decrease the length of thread pulled out by the thread take-up.

3) When the marker line C on the thread guide ① is aligned with the center of the screw, it is standard.

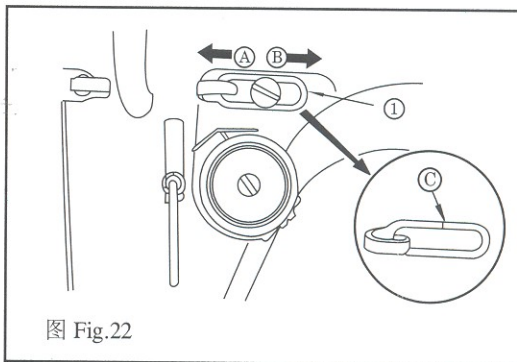


图 Fig.22

15. 皮带罩装法(图 23、图 24、图 25)

15. INSTALLING THE BELT COVER (Fig.23, Fig.24, Fig.25)



注意：为了防止意外的起动造成的事故，请关掉电源后再进行。



WARNING:

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

1. 安装程序:

1) 在台板上钻四只木螺钉导孔 A、B。

2) 将罩壳支柱①装入机壳的螺孔内。

3) 将上轮前罩壳③从后斜方装入，使上轮套进上轮前罩壳③的孔内。

4) 将上轮后罩壳②放置在导孔 AB 上。

5) 用螺钉和垫圈④⑤⑥，将上轮前罩壳③固定在车壳上。此时的螺钉紧固扭矩请控制在螺钉④为 30kgfcm、螺钉⑤为 25kgfcm，即使紧固扭矩超过以上程度，也无效果。

6) 盖上上轮前罩壳盖板⑦。

7) 将上轮后罩壳②向后方移动，在上轮后罩壳②的橡胶部分碰到上轮前罩壳③时，再移动 0.5-1mm，将其用木螺钉和垫圈固定。

1. Installing procedure

1) Drill four wooden screw guide holes A, B in the machine table.

2) Insert support ① in the tapped hole in the arm.

3) Install the front belt cover ③, get the hand wheel in the middle of the hole.

4) Install the back belt cover ② at A and B.

5) Using the screws ④, ⑤ and washer ⑥, fix the front cover ③ on the support. The tightening torque for the screw ④ is about 30 kgfcm. for the screw ⑤ is about 25 kgfcm.

6) Fix the cover ⑦.

7) Move the back belt cover ② backward until its rubber touches the front belt cover ③, then move further more 0.5-1mm, fix it using the wooden screws and washers.

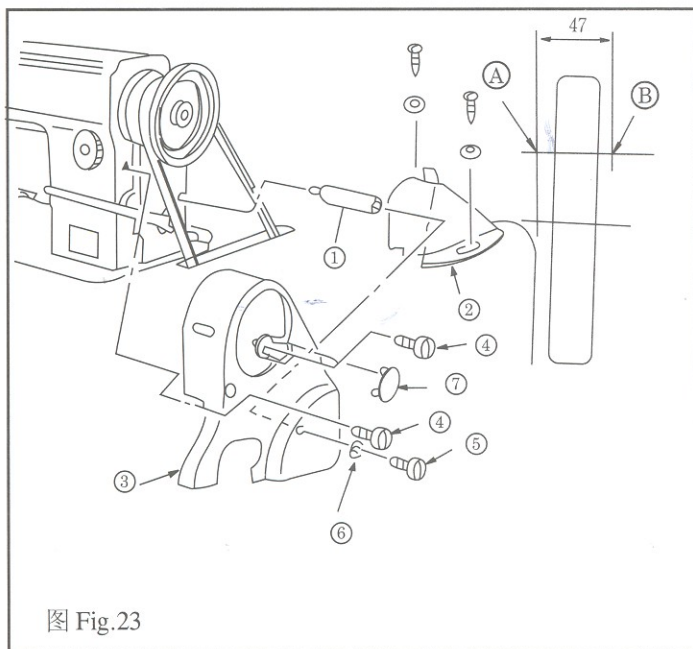


图 Fig.23

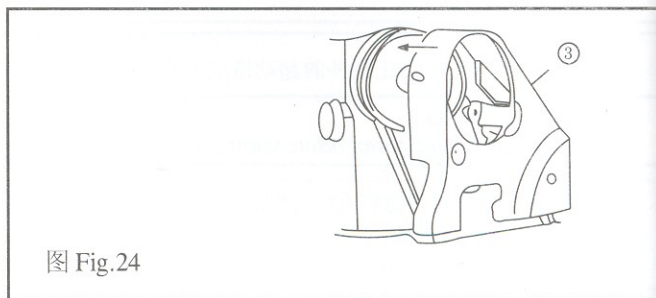


图 Fig.24

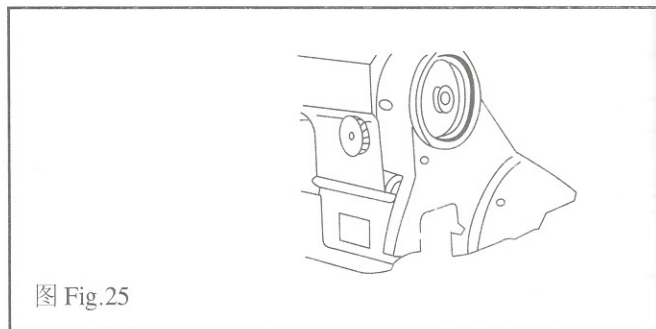


图 Fig.25

16. 膝提高度的调节 (图 26、图 27)

16. ADJUSTING THE HEIGHT OF THE KNEE LIFTER (Fig.26, Fig.27)



注意：为了防止意外的起动造成的事故，请关掉电源后再进行。



WARNING:

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

- 1) 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。(压脚最大提升量为 9 毫米。)
- 3) 当压脚提升量超过 10 毫米时，不能使处于最低位置的针杆②的底端与压脚③相碰。

1) The standard height of the presser foot lifted using the knee lifter is 10mm.

2) You can adjust the presser foot lift up to 13 mm using knee lifter adjust screw ①. (The max. lift should be 9 mm for type)

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

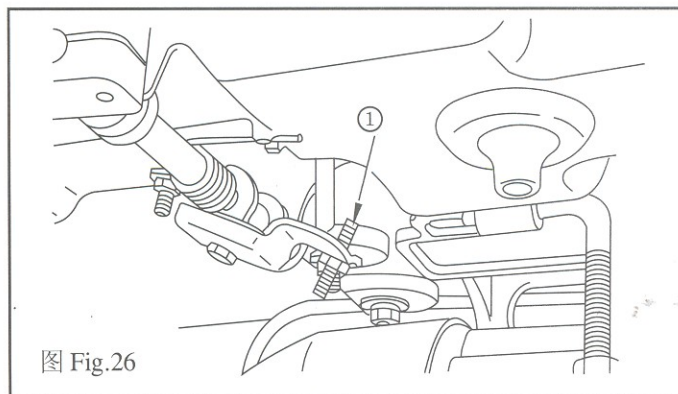


图 Fig.26

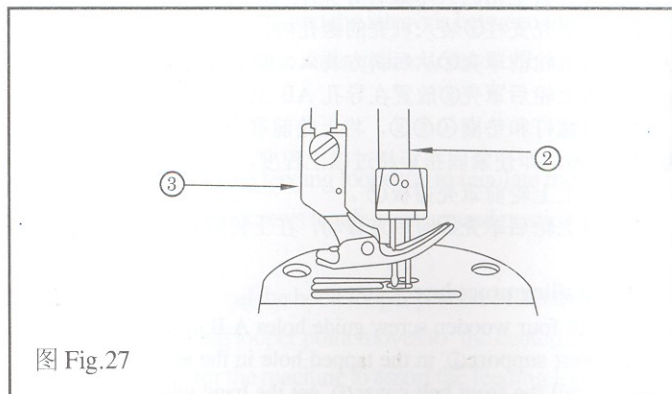


图 Fig.27

17. 保养 CLEANING

为了爱护缝纫机，保持其良好的性能，每天都要保养机器，如长时间放置，请按照下面的保养顺序进行。
The following cleaning operations should be carried out each day in order to maintain the performance of this machine and to ensure a long service life



注意 CAUTION



作业前请切断电源开关。避免误踩踏板起动缝纫机而受伤。由于电机惯性作用，切断电源后，电机还会继续运动，直到它完全停止后才可能进行操作。

Turn off the power switch before carrying out cleaning. The motor will keep turning even after the power is switched off as a result of the motor's inertia. Wait until the motor stops fully before starting work.

The machine may operate if the treadle is pressed by mistake, which could result in injury.

使用润滑油时，要佩戴保护眼镜和手套遮盖皮肤以免引起炎症。

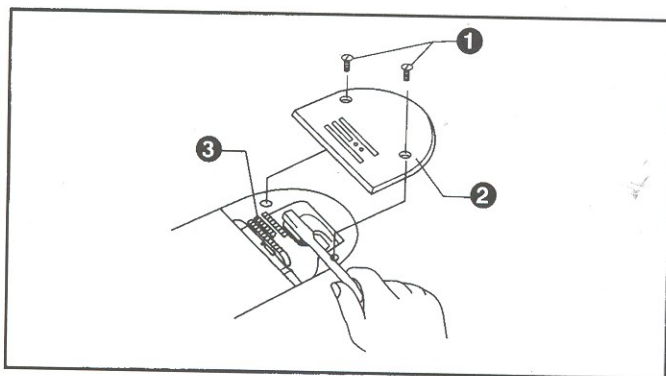
润滑油不能饮用，以免发生痢疾和呕吐。

请不要放置在孩子可能触及的地方。

Be sure to wear protective goggles and gloves when handling the lubricating oil, so that no oil gets into your eyes or onto your skin, otherwise inflammation can result.

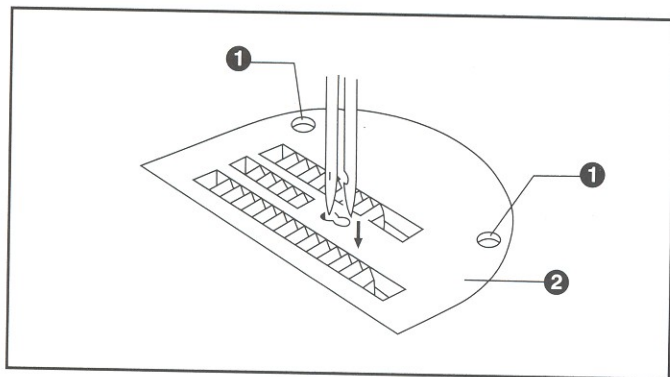
Furthermore, do not drink the oil under any circumstances, as it can cause vomiting and diarrhoea.

Keep the oil out of the reach of children.



1. 抬起压脚。
2. 取出2个紧固螺钉①，取下针板②。
3. 用牙刷等物清扫送布牙③上的灰尘。
4. 将2个紧固螺钉①装进针板②。

1. Raise the presser foot.
2. Remove the two screws ①, and then remove the needle plate ②.
3. Use a soft wire brush to clean any dust from the feed dog ③.
4. Install the needle plate ① with the two screws ②.



5. 慢慢转动缝纫机主动轮，机针应准确无误进入针板②针孔的中心。

如果机针不能进入针板孔中心时，确认机针是否弯曲。

松开2个紧固螺钉①后，针板②，是否回原位。

6. 转动缝纫机上轮，使机针上升到针板②上面，确认针尖是否损坏，针尖损坏时，要换机针。

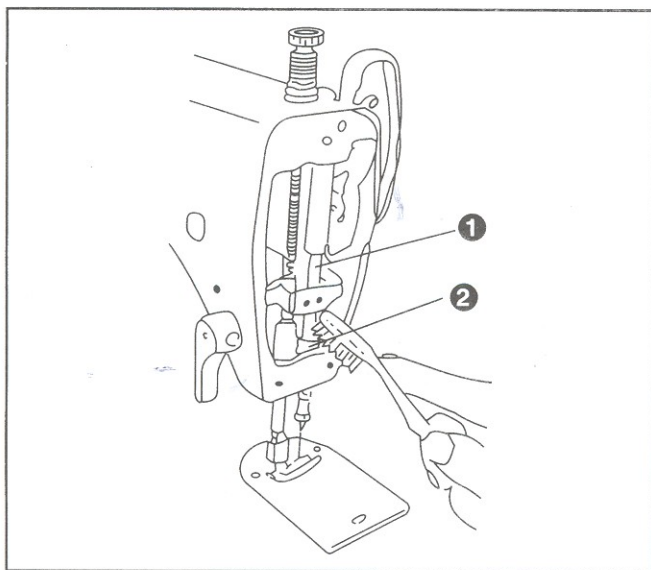
5. Turn the machine pulley slowly and check that the needle is lowered through the center of the hole in the needle plate ②.

※ If the needle does not go through the center.

- Check that the needle is not bent.

- Loosen the two screws ① and then re-seat the needle plate ②.

6. Turn the machine pulley to raise the needle above the needle plate ②, and then check that the tip of the needle is not blunt



12.定期打开面板。

13.用刷子或布清扫针杆①和针杆下轴套②上的堆积纤维，打扫干净。

14.装上面板，用螺钉紧固。

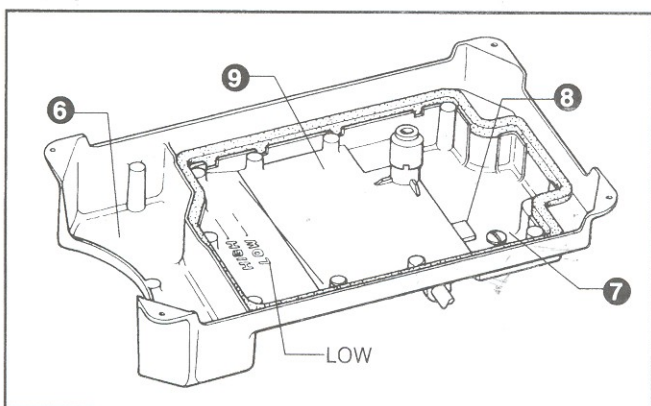
※如不定期清扫，有引起渗、漏油、污染织物的可能。

12.To open face plate regularly.

13.Wipe off any fibre from needle bar and needle bar bush② with a soft wike bush or a soft cloth

14.put fale plate back.securely tighten the screw

※ If not clean it regulary.it may cause oil teak,result in making the tettile dirty.



15.用布擦拭油污⑥。

16.当油面低于<LOW>刻线时，补充润滑油。

※ 请使用本公司指定的10#润滑油。

※ 润滑油脏时，取下放油螺钉⑦，调换新的润滑油。磁块⑧和油盘⑥中的污物要清除干净。

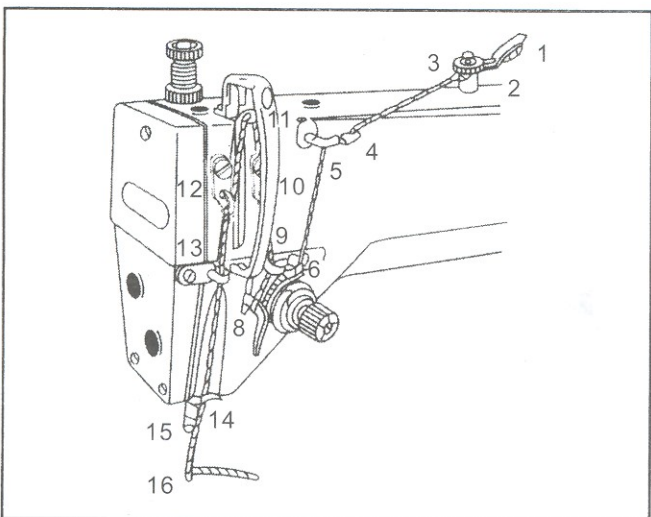
15.Clean the oil sump⑥ with a cloth.

16.If the oil level drops below the LOW mark add more lubricating oil.

★ Use only the lubricating oil(Nisseki Sewing Lube 10) specified by our dealer.

★ If the lubricating oil is contaminated,remove the oil cap screw⑦ and drain the oil.

Clean off any dirt on the collection magnet⑧ and in the oil pan.



17.把机器放回原位。

18.确认上线绕线是否正确。

19.试缝。

17.Return the machine tead to its original position.

18.Check that the uppert thread is threaded correctly.

19.Carry out a trst sewing.

18. 规格
18. SPECIFICATIONS

型号 Type	8350-20	8350-25	8350-30	8350-35	8350-40	8350-50
最高缝速 Sewing speed (max)	2000针/分					
针距 Stitch length	2mm	2.5mm	3mm	3.5mm	4mm	5mm
针杆行程 Needle bar store	26毫米					
压脚升程 Presser foot lifter	手提 Hand lifter		5毫米	膝提 Knee lifter		10毫米
用途 Use	中 厚 料 For medium-weight materials					
机 针 Needle	DP X 5 18# 8350-20 DBX1 18# CP X 12 18#					
润 滑 油 Lubricating	10 # 白油(oil)					
电机功率 Motor power	370W 四极 (Four grade)					

(1) 马达使用标准输出370W (1/2 马力四级) 的离合马达。

(2) 皮带使用M型V形皮带。

(3) 马达皮带轮和皮带、缝纫机的转速关系如下表所示。

(1) A clutch motor with 370W output (1/2 HP four grade) is used as the standard motor.

(2) An M-type V belt should be used.

(3) The relationship between the motor pulleys, belt lengths and sewing speeds is shown in the following table:

马达皮带轮的外径 Motor pulley O.D. (mm)	转 速 Sewing speed (s.p.m.)		皮带长度 (英寸) Belt length (in.)
	50 Hz	60 Hz	
100	2030		42"
95	1940		
90	1830		
85	1720	2060	41"
80	1600	1920	
75	1500	1800	
70	1390	1670	
65	1310	1570	
60	1230	1470	40"
55	1130	1350	
50	1010	1210	

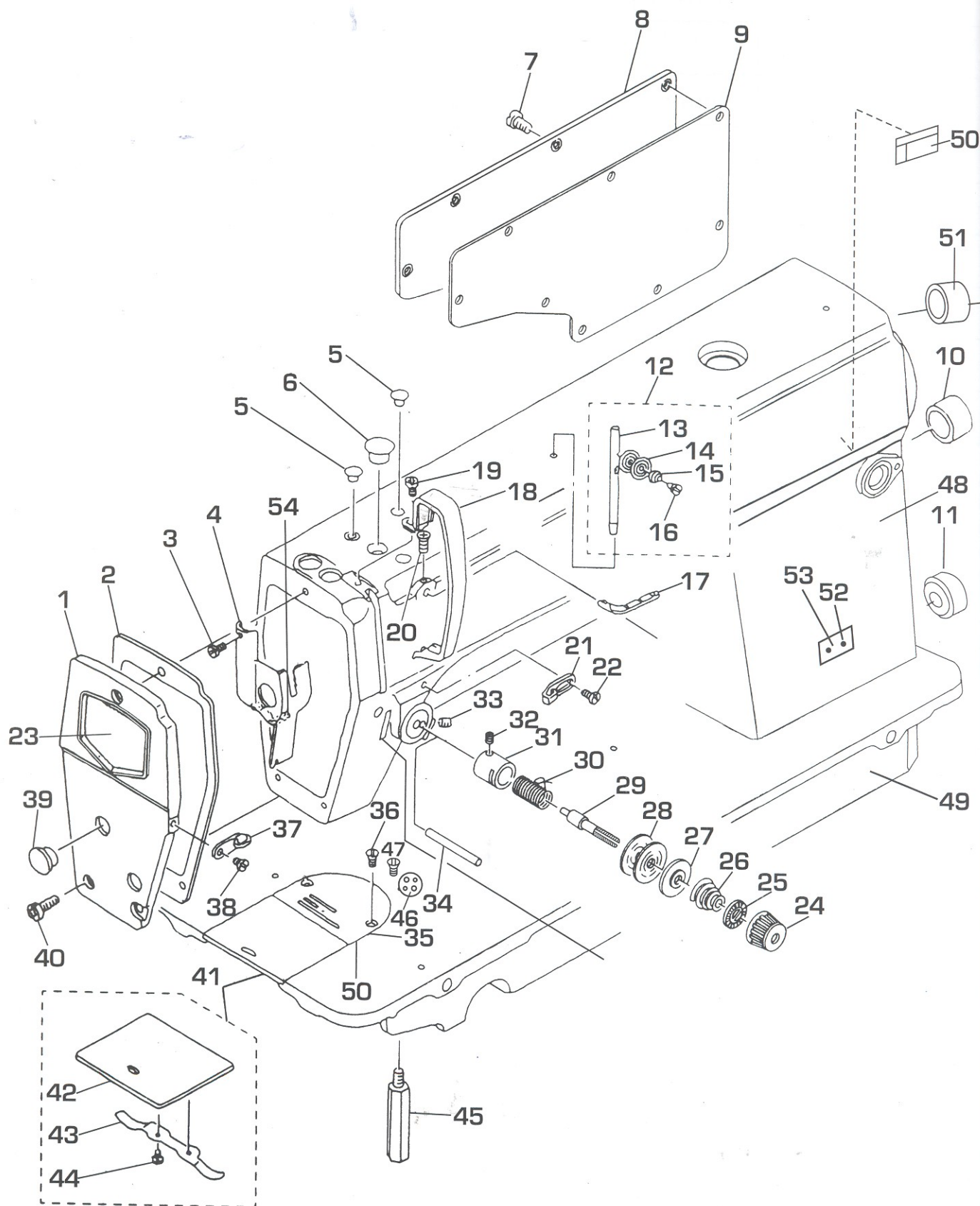
● 马达皮带轮的有效直径为外径减5mm。

● 马达的转动方向从皮带轮侧看为逆时针。请注意不要让缝纫机反转。

● The effective diameter of a motor pulley is equivalent to the outside diameter minus 5 mm.

● The motor should rotate counterclockwise as observed from the handwheel side. Be careful not to allow the motor to rotate in the reverse direction.

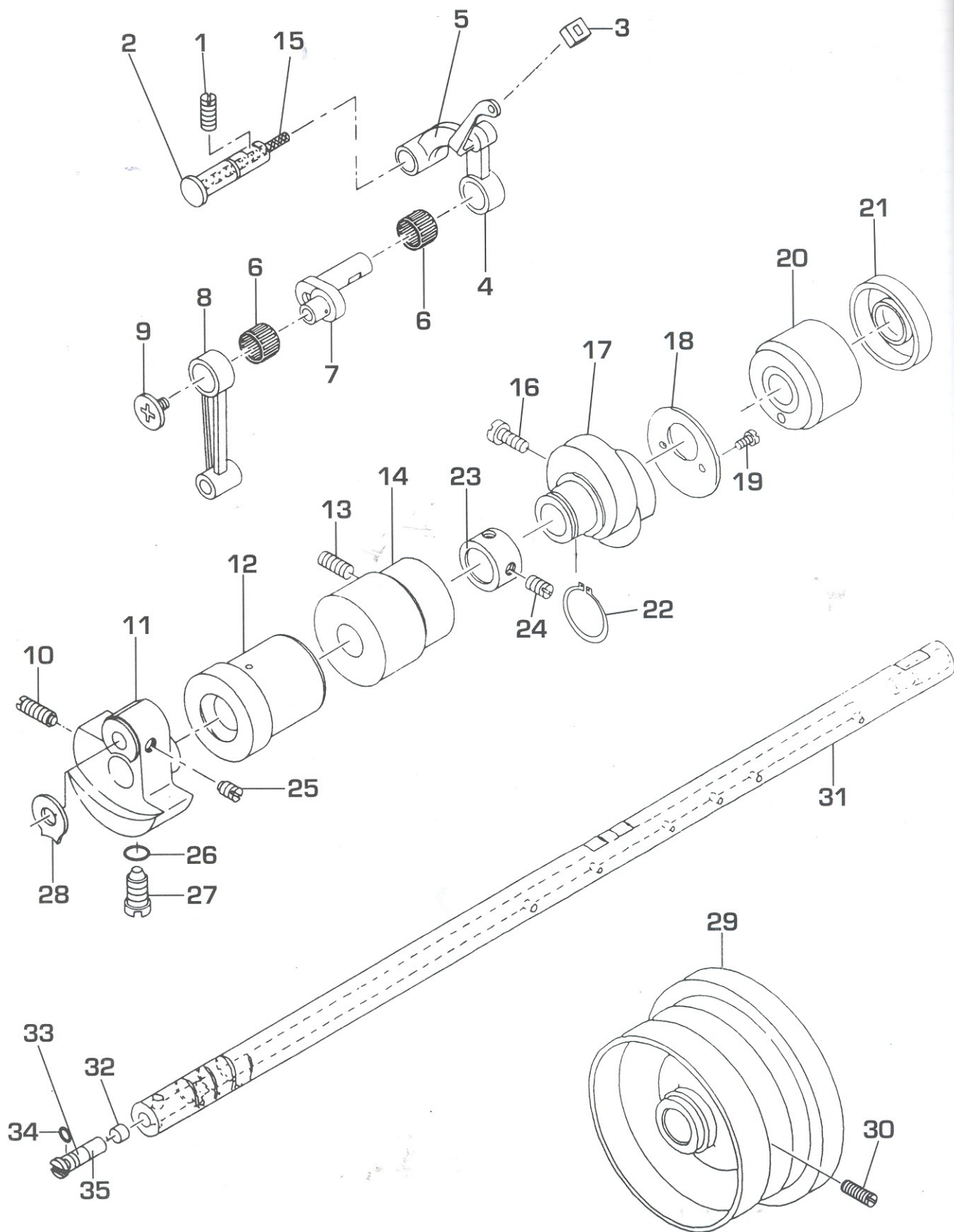
1. 机壳分组件 ARM BED COMPONENTS



一、机壳分组件 ARM BED COMPONENTS

序号 NO	图 号	名 称	DESCRIPTION	数量(AMT)					
				-20	-25	-30	-35	-40	-50
1	101-01-07	面板	FACE PLATE ARM	1	1	1	1	1	1
2	101-01-09	面板垫	BRAND PLATE GASKET	1	1	1	1	1	1
3	101-08-36	面部防油板螺钉	SCREW SM1/8X44 L=4	1	1	1	1	1	1
4	101-08-34	面部防油板	ARM OIL SHIELD ASM.	1	1	1	1	1	1
5	101-01-12	挑线连杆销螺孔塞	RUBBER PLUG	2	2	2	2	2	2
6	101-01-11	针杆曲柄螺孔塞	RUBBER PLUG	1	1	1	1	1	1
7	101-01-06	后窗板螺钉	SCREW SM3/16X28 L=9	8	8	8	8	8	8
8	101-01-04	后窗板	SIDE PLATE	1	1	1	1	1	1
9	101-01-05	后窗板垫	SIDE PLATE GASKET	1	1	1	1	1	1
10	101-01-02	送料调节器孔塞	RUBBER PLUG	1	1	1	1	1	1
11	101-01-03	下轴孔工艺孔塞	RUBBER PLUG	1	1	1	1	1	1
12	101-03-35-00	小夹器组件	NEEDLE THREAD GUIDE PIN ASM	1	1	1	1	1	1
13	101-03-35	过线柱	NEEDLE THREAD GUIDE PIN	1	1	1	1	1	1
14	101-03-36	过线夹线板	TENSION DISC	2	2	2	2	2	2
15	101-03-37	过线夹线簧	TENSION SPRING	1	1	1	1	1	1
16	101-03-38	过线夹线螺钉	HINGE SCREW SM3/32X56 L=4	1	1	1	1	1	1
17	101-03-14	三眼线勾	THREE-HOLE THREAD EYELET	1	1	1	1	1	1
18	101-02-29	挑线杆护罩	THREAD TAKE-UP LEVER COVER	1	1	1	1	1	1
19	101-02-30	挑线杆护罩螺钉	SCREW SM3/16X28 L=6	1	1	1	1	1	1
20	101-02-30	三眼线勾螺钉	SCREW SM16/64X28	1	1	1	1	1	1
21	101-03-16	右线勾	ARM THREAD GUIDE A	3	3	3	3	3	3
22	101-03-17	右线勾螺钉	SCREW SM11/64X40	3	3	3	3	3	3
23	101-01-08	商标牌	BRAND PLATE	1	1	1	1	1	1
24	101-03-28	夹线器螺母	TENSION NUT	1	1	1	1	1	1
25	101-03-27	夹线制动板	TENSION DISC STOPPET	1	1	1	1	1	1
26	101-03-26	夹线簧	TENSION SPRING	1	1	1	1	1	1
27	101-03-25	松线板	TENSION DISC HOLDER	1	1	1	1	1	1
28	101-03-24	夹线板	TENSION DISC	2	2	2	2	2	2
29	101-03-21	夹线螺钉(柱)	TENSION POST	1	1	1	1	1	1
30	101-03-20	挑线簧	TAKE-UP SPRING	1	1	1	1	1	1
31	101-03-19	挑线簧调节座	TENSION POST SOCKET	1	1	1	1	1	1
32	101-03-22	夹线座坚固螺钉	SCREW SM9/64X40 L=5.5	1	1	1	1	1	1
33	101-03-29	夹线器螺钉	SCREW SM15/64X28 L=7	1	1	1	1	1	1
34	101-03-23	松钱钉	THREAD RELEASE PIN	1	1	1	1	1	1
35	1209-06-36	针板3	THROAT PLATE 3			1			
	1209-06-36A	针板2	THROAT PLATE 2	1					
	1209-06-36B	针板2.5	THROAT PLATE 2.5		1				
	1209-06-36C	针板3.5	THROAT PLATE 3.5				1		
	1209-06-36D	针板4	THROAT PLATE 4					1	
	1209-06-36E	针板5	THROAT PLATE 5						1
36	101-06-37	针板螺钉	SCREW SM11/64X40 L=8.5	2	2	2	2	2	2
37	101-03-18	左线勾	ARM THREAD GUIDE B	1	1	1	1	1	1
38	101-03-17	左线勾螺钉	SCREW SM11/64X40 L=6	1	1	1	1	1	1
39	101-01-10	面板调节螺孔塞	RUBBER PLUG	2	2	2	2	2	2
40	101-01-06	面板螺钉	SCREW SM3/16X28 L=9	3	3	3	3	3	3
41	101-06-39	推板组件	BED SLIDE ASM	1	1	1	1	1	1
42	101-06-39-1	推板	SLIDE PLATE	1	1	1	1	1	1
43	101-06-40	推板簧	SLIDE PLATE SPRING	1	1	1	1	1	1
44	101-06-41	推板簧螺钉	SCREW SM3/32X56 L=1.9	2	2	2	2	2	2
45	101-01-15	底板支座	BED SCREW STUD SM15/64X28	4	4	4	4	4	4
46	101-01-17	安装板	CONNECTING ROD	1	1	1	1	1	1
47	101-01-16	安装板定位螺钉	SCREW SM11/64X40 L=5.5	2	2	2	2	2	2
48	1209-01-00-0	机壳	ARM	1	1	1	1	1	1
49	1209-01-00-01	底板	BED	1	1	1	1	1	1
50	101-01-18	安全指示牌	SAFETY-INDICATING PLATE	1	1	1	1	1	1
51	101-12-23	上轴保护套	MAIN SHAFT BUSHING	1	1	1	1	1	1
52	101-01-14	型号牌铆钉	MODEL PLATE RIVET	2	2	2	2	2	2
53	1209-01-25	型号牌	MODEL PLATE	1					
	1209-01-25A	型号牌	MODEL PLATE		1				
	1209-01-25B	型号牌	MODEL PLATE			1			
	1209-01-25C	型号牌	MODEL PLATE				1		
	1209-01-25D	型号牌	MODEL PLATE					1	
	1209-01-25E	型号牌	MODEL PLATE						1
54	101-08-35	面部防油板油线	OIL WICK	1	1	1	1	1	1

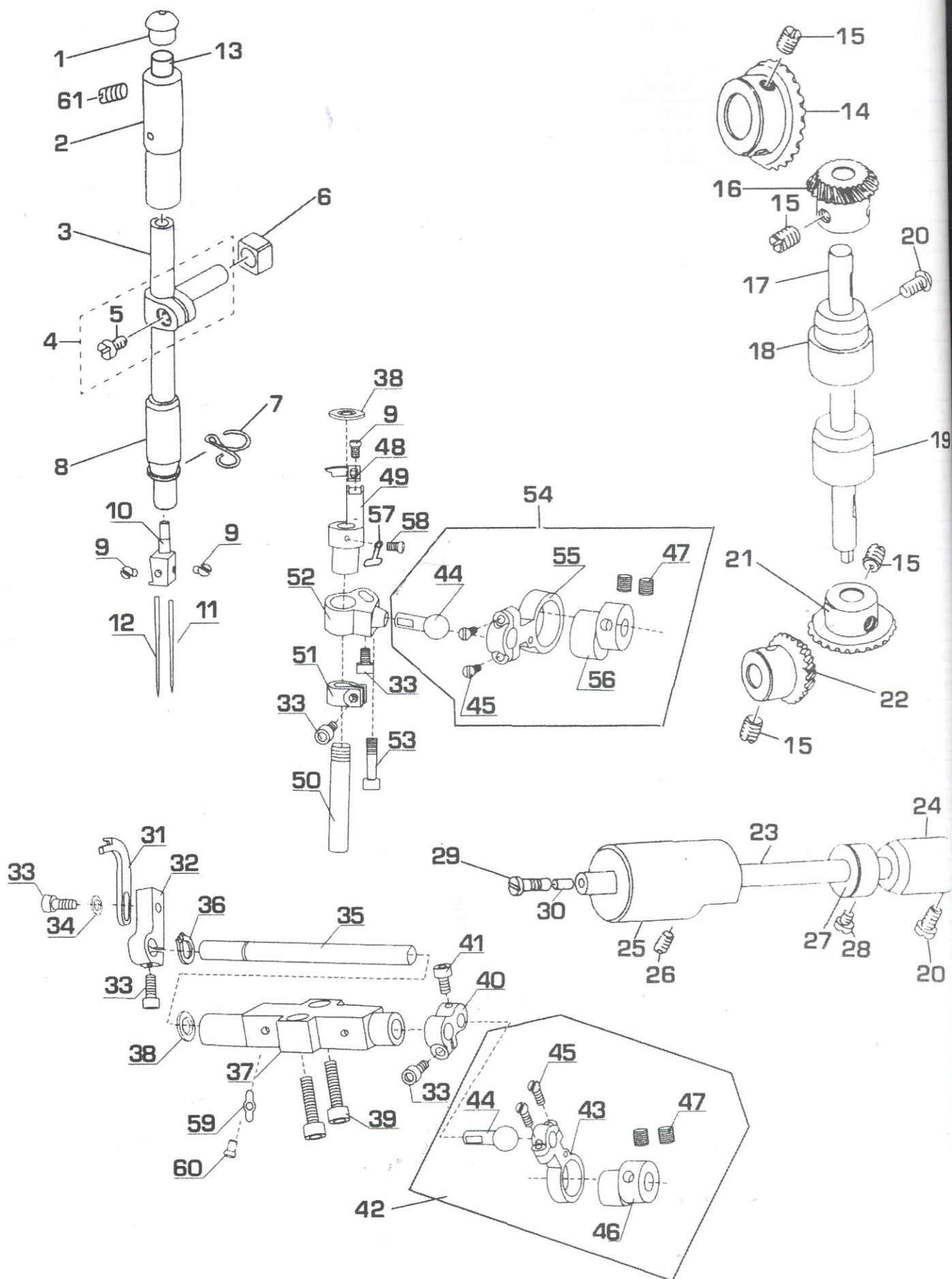
2. 上轴及挑线杆组件 MAIN SHAFT & THREAD TAKE-UP LEVER COMPONENTS



二、上轴及挑线杆分组件(MAIN SHAFT & THREAD TAKE-UP LEVER COMPONENTS)

序号 NO	图 号	名 称	DESCRIPTION	数量(AMT)					
				-20	-25	-30	-35	-40	-50
1	101-02-27	挑线连杆销螺钉	SCREW SM15/64X28 L=10.5	1	1	1	1	1	1
2	101-02-25	挑线连杆销	THREAD TAKE-UP LEVER PIN	1	1	1	1	1	1
3	101-02-23	挑线杆防油套	RUBBER	1	1	1	1	1	1
4	101-02-22	挑线杆组件	THREAD TAKE-UP LEVER ASM	1	1	1	1	1	1
5	101-02-22-05	挑线连杆	THREAD TAKE-UP CRANK ROD	1	1	1	1	1	1
6	101-02-24	滚针轴承	NEEDLE BEAR ING B	2	2	2	2	2	2
7	1209-02-20-00	挑线曲柄组件	NEEDLE BAR CRANK ASM	1	1	1	1	1	1
8	101-03-01	针杆连杆	NEEDLE BAR CRANK ROD	1	1	1	1	1	1
9	101-02-28	挑线曲柄左旋螺钉	END SCREW LEFT SM9/64x40左	1	1	1	1	1	1
10	101-02-18	针杆曲柄紧固螺钉	SCREW SM9/32x28	1	1	1	1	1	1
11	101-02-15	针杆曲柄	COUNTERWEIGHT	1	1	1	1	1	1
12	101-02-10	上轴前轴套组件	MAIN SHAFT BUSHING FRONT ASM	1	1	1	1	1	1
13	101-02-09	上轴中轴套螺钉	SCREW SM15/64x28	1	1	1	1	1	1
14	101-02-08	上轴中轴套	MAIN SHAFT BUSHING INTERMEDIAT	1	1	1	1	1	1
15	101-02-26	挑线连杆销油线	OIL WICK	1	1	1	1	1	1
16	101-06-03	送料偏心轮螺钉	SCREW SM1/4x40	2	2	2	2	2	2
17	101-06-02	送料偏心轮	FEED DRIVE ECCENTRIC CAM	1	1	1	1	1	1
18	101-06-04	送料偏心轮盖板	FEED DRIVE ECCENTRIC COVER	1	1	1	1	1	1
19	101-06-05	送料偏心轮盖板螺钉	SCREW SM9/64x40 L=6	2	2	2	2	2	2
20	101-02-05	上轴后轴套组件	MAIN SHAFT BUSHING BEAR ASM	1	1	1	1	1	1
21	101-02-04	上轴油封	OIL SEAL	1	1	1	1	1	1
22	101-06-52	拾牙连杆轴用挡圈	SNAP RING 18.5	1	1	1	1	1	1
23	101-02-06	上轴挡圈	THRUST COLLAR D=14.72 W=12	1	1	1	1	1	1
24	101-02-07	上轴挡圈螺钉	SCREW SM1/4x40 L=6	2	2	2	2	2	2
25	101-02-07	针杆曲柄螺钉	SCREW SM1/4x40 L=6	2	2	2	2	2	2
26	101-02-17	定位螺钉O形圈	RUBBER RING	1	1	1	1	1	1
27	101-02-16	针杆曲柄定位螺钉	SCREW SM9/32x28 L=6	1	1	1	1	1	1
28	101-02-19	针杆曲柄护板	COUNTERWEIGHT PROTECTING PLATE	1	1	1	1	1	1
29	101-02-01	上轮	HAND WHEEL	1	1	1	1	1	1
30	101-02-02	上轮螺钉	SCREW SM15/64x28 L=15	2	2	2	2	2	2
31	101-02-03	上轴	MAIN SHAFT	1	1	1	1	1	1
32	101-02-11	曲柄油量限制垫	ROLLER FELT	1	1	1	1	1	1
33	101-02-12	曲柄油量调节销	OIL AMOUNT ADJUSTING PIN	1	1	1	1	1	1
34	101-02-14	曲柄油量调节销O形圈	RUBBER RING	1	1	1	1	1	1
35	101-02-13	曲柄油量调节销套	SLEEVE OF OIL AMOUNT ADJUSTING PIN	1	1	1	1	1	1

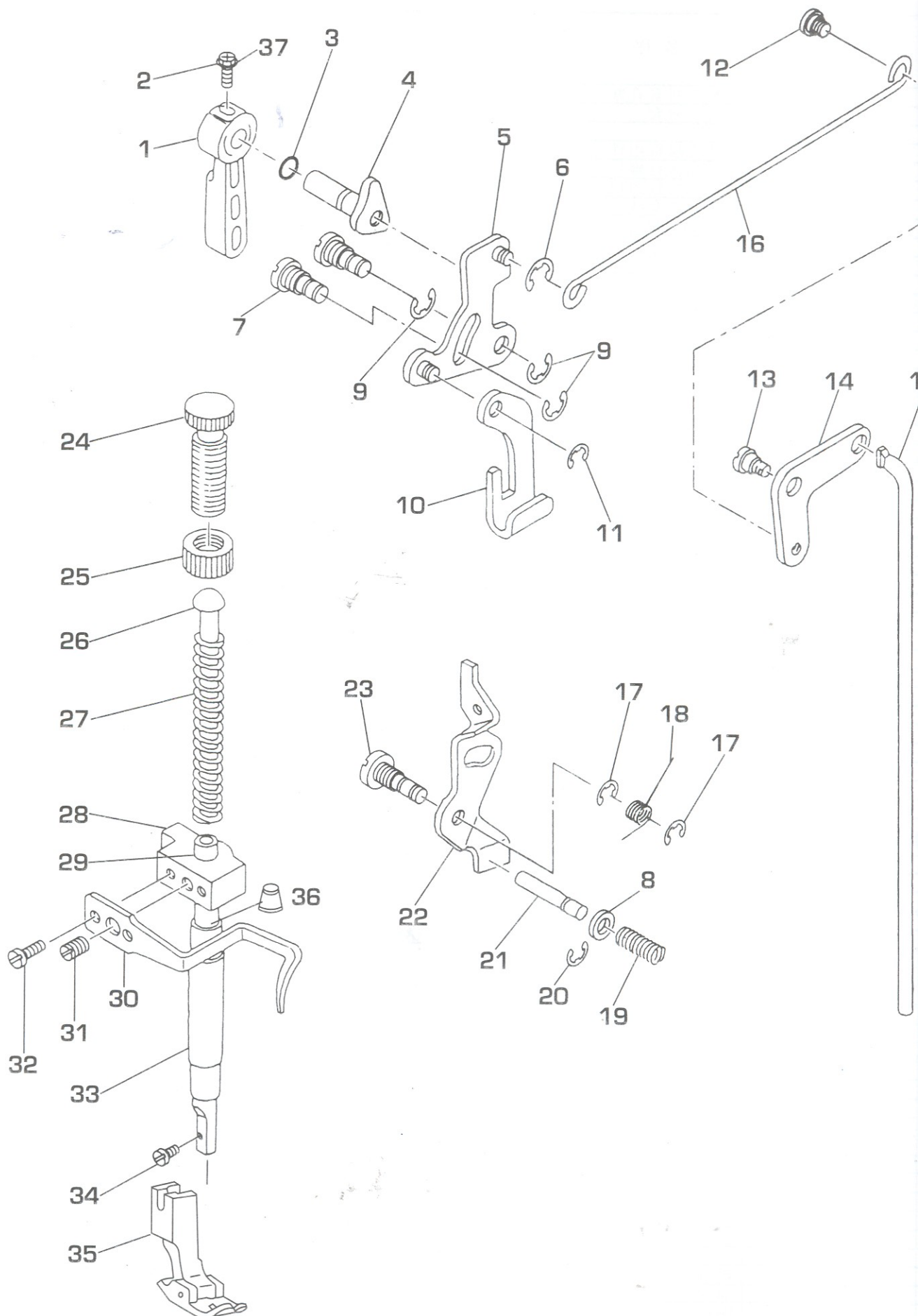
3. 针杆、传动轴分组件(NEEDL BAR & HOOK DRIVING SHAFT COMPONENTS)



三、针杆、传动轴分组件(NEEDLE BAR & HOOK DRIVING SHAFT COMPONENTS)

序号 NO	图 号	名 称	DESCRIPTION	数量(AMT)					
				-20	-25	-30	-35	-40	-50
1	101-03-07	针杆上衬套孔塞	RUBBEG PLUG	1	1	1	1	1	1
2	101-03-06	针杆上衬套	NEEDLE BAR BUSHING RPPER	1	1	1	1	1	1
3	1209-03-10	针杆	NEEDLE BAR	1	1	1	1	1	1
4	101-03-03	针杆连接柱组件	NEEDLE BAR CONNECTION ASM.	1	1	1	1	1	1
5	101-03-04	针杆连接柱螺钉	SCREW SM9/64X40 L=6	1	1	1	1	1	1
6	101-03-05	针杆连接柱滑块	SLIDE BLOCK	1	1	1	1	1	1
7	101-03-09	针杆下轴套线勾	NEEDLE BAR THREAD GUIDE	1	1	1	1	1	1
8	101-03-09	针杆下轴套	NEEDLE BAR BUSHING LOWER	1	1	1	1	1	1
9	1209-03-12	支针螺钉	SCREW SM/8X44 L=5	3	3	3	3	3	3
10	1209-03-11	针轧头 3	NEEDLE GAUDE 3			1			
	1209-03-11A	针轧头 2	NEEDLE GAUDE 2	1					
	1209-03-11B	针轧头 2.5	NEEDLE GAUDE 2.5		1				
	1209-03-11C	针轧头 3.5	NEEDLE GAUDE 3.5				1		
	1209-03-11D	针轧头 4	NEEDLE GAUDE 4					1	
	1209-03-11E	针轧头 5	NEEDLE GAUDE 5						1
11	1209-03-13	机针	NEEDLE DPX5 #18	1	1	1	1	1	1
	1209-03-13A	机针	NEEDLE DBX1 #18	1	1	1	1	1	1
12	1209-05-01	钩针	HOOK NEEDIE(CPX12 #18)	1	1	1	1	1	1
13	101-08-40	上轴轴套毡塞	FELT PLUG	1	1	1	1	1	1
14	101-05-26	上轴伞齿轮	GEAR ASM	1	1	1	1	1	1
15	101-05-19	伞齿轮螺钉	SCREW SM1/4X40 L=8	8	8	8	8	8	8
16	101-05-25	竖轴上伞齿轮	PONION ASM	1	1	1	1	1	1
17	101-05-24	竖轴	UPRIGHT SHAFT	1	1	1	1	1	1
18	101-05-22	竖轴上轴套	UPRIGHT SHAFT BUSHING UPPER	1	1	1	1	1	1
19	101-05-21	竖轴下轴套	UPRIGHT SHAFT BUSHING LOWER	1	1	1	1	1	1
20	101-05-23	竖轴上轴套螺钉	SCREW SM1/4X40 L=9	2	2	2	2	2	2
21	101-05-20	竖轴下伞齿轮	GEAR ASM LARGE	1	1	1	1	1	1
22	101-05-18	下轴伞齿轮	PINION ASM	1	1	1	1	1	1
23	101-05-07	下轴	HOOK DRIVING SHAFT	1	1	1	1	1	1
24	101-05-14	下轴后轴套	HOOK DRIVING SHAFT BUSHING REAR	1	1	1	1	1	1
25	1209-05-12	下轴前轴套组件	HOOK VRIVING SHAFT BUSHING ASM, FRONT	1	1	1	1	1	1
26	101-05-13	下轴前轴套螺钉	SCREW SM1/6/64X28	1	1	1	1	1	1
27	101-05-16	下轴挡油圈	THRUST COLLAR ASM D=7.94 W=10	1	1	1	1	1	1
28	101-05-17	下轴挡油圈螺钉	SCREW SM11/64X40 L=4.8	2	2	2	2	2	2
29	101-05-08	下轴限位螺钉	OIL SEAL SCREW ASM SM3/16X32	1	1	1	1	1	1
30	101-05-09	下轴限油芯	OIL WICK	1	1	1	1	1	1
31	1209-01-01	钩线弯针	HOOK LOOPER	1	1	1	1	1	1
32	1209-01-02	钩线弯针架	HOOK LOOPER RACK	1	1	1	1	1	1
33	1209-01-03	钩线弯针固定螺钉	SCREW M4X10	5	5	5	5	5	5
34	1209-01-04	钩线弯针垫圈	HOOK LOOPER GASKET	1	1	1	1	1	1
35	1209-01-05	钩线弯针轴	HOOK LOOPER AXIS	1	1	1	1	1	1
36	1209-01-06	卡簧	SNAPRING 8	1	1	1	1	1	1
37	1209-01-07	钩线弯针轴支架	BRACKET	1	1	1	1	1	1
38	1209-01-08	钩线弯针轴垫圈	HOOK LOOPER AXIS GASKET	1	1	1	1	1	1
39	1209-01-09	钩线弯针轴支架螺钉	BRACKET SCREW M5X16	2	2	2	2	2	2
40	1209-01-10	钩线弯针曲柄	HOOK LOOPER CRANK	1	1	1	1	1	1
41	1209-01-11	钩线弯针曲柄螺钉	HOOK LOOPER CRANK SCREW M4X8	1	1	1	1	1	1
42	1209-01-12	钩线连杆组件	HOOK CONNECTING ROD ASM	1	1	1	1	1	1
43	1209-01-12-01	钩线连杆	HOOK CONNECTING ROD	1	1	1	1	1	1
44	1209-01-12-02	球轧头	CONNECTING ROD BALL	2	2	2	2	2	2
45	1209-01-12-03	钩线连杆螺钉	SCREW 9/64X40 L=8	4	4	4	4	4	4
46	1209-01-12-04	钩线弯针凸轮	HOOK LOOPER AVOID ECCENTRIC	1	1	1	1	1	1
47	1209-01-12-05	钩线弯针凸轮螺钉	SCREW M6X6	4	4	4	4	4	4
48	1209-01-13	送线弯针	FEEDING LOOPER	1	1	1	1	1	1
49	1209-01-14	送线弯针架	FEEDING LOOPER RACK	1	1	1	1	1	1
50	1209-01-15	送线弯针固定轴	FEEDING LOOPER FIXED AXIS	1	1	1	1	1	1
51	1209-01-16	挡圈	THRUST COLLAR D=8 W=8	1	1	1	1	1	1
52	1209-01-17	送线弯针调节块	FEEDING LOOPER REGULATING BLACK	1	1	1	1	1	1
53	1209-01-18	送线弯针调节螺钉	SCREW M4X16	1	1	1	1	1	1
54	1209-01-19	送线连杆组件	FEEDING CONNECTING ROD ASM	1	1	1	1	1	1
55	1209-01-19-01	送线连杆	FEEDING CONNECTING ROD	1	1	1	1	1	1
56	1209-01-19-02	送线弯针凸轮	FEEDING LOOPER AVOID ECCENTRIC	1	1	1	1	1	1
57	1209-01-20	油线夹	OIL WICK HOLDER	1	1	1	1	1	1
58	1209-01-21	螺钉	SCREW 1/8X44 L=3	1	1	1	1	1	1
59	1209-01-22	油线夹	OIL WICK HOLDER	2	2	2	2	2	2
60	1209-01-23	铆钉	PLATE RIVET	2	2	2	2	2	2
61	Sm524	针杆上衬套螺钉	SCREW SM3/16X28/5 开槽无头螺钉	1	1	1	1	1	1

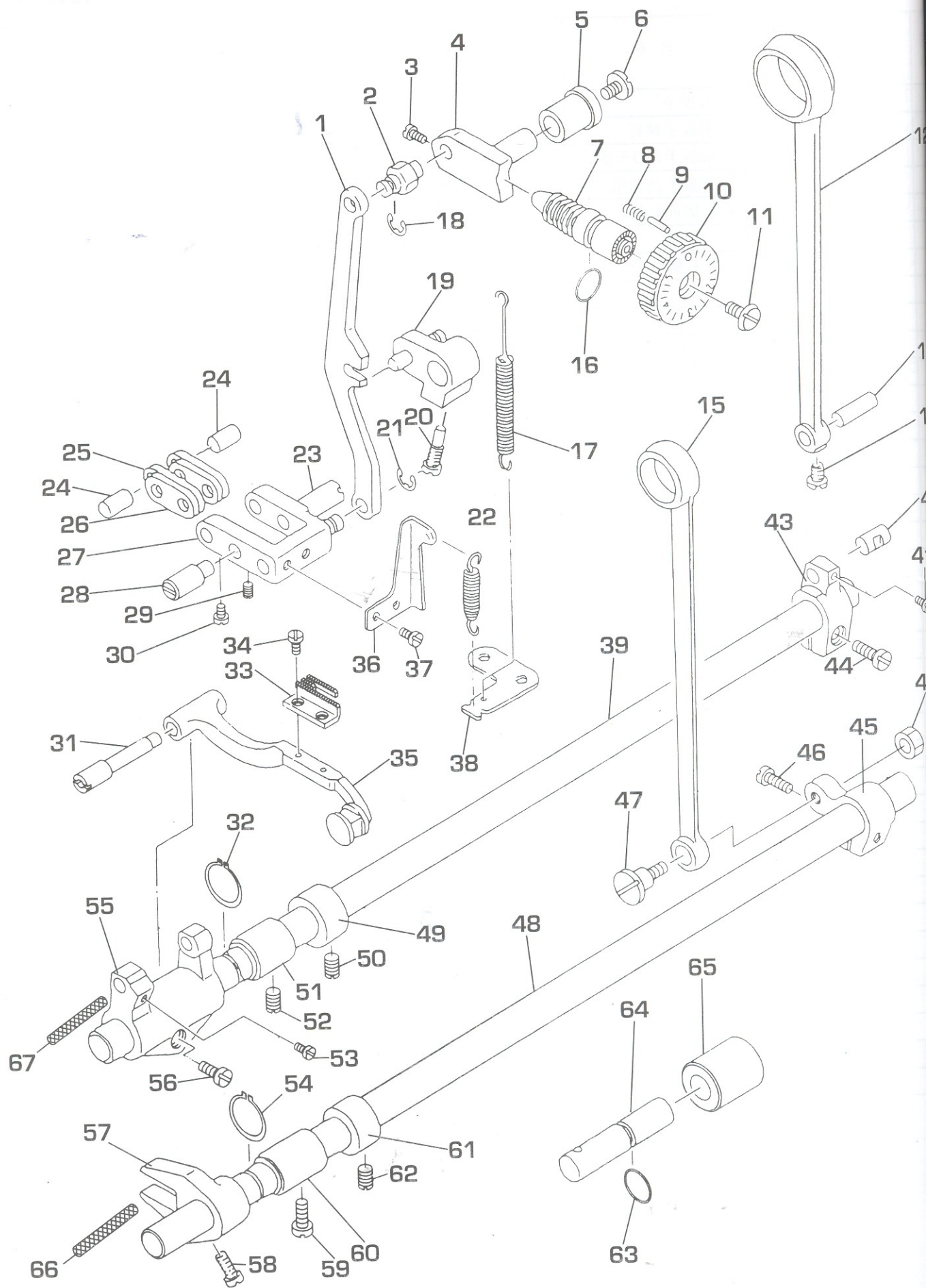
4. 提压脚分组件 HAND LIFTER COMPONENTS



四、提压脚分组件(HAND LIFTER COMPONENTS)

序号 NO	图 号	名 称	DESCRIPTION	数量(AMT)					
				-20	-25	-30	-35	-40	-50
1	101-04-13	压脚扳手	HAND LIFTER	1	1	1	1	1	1
2	101-04-14	压脚扳手螺钉	SCREW SM9/64x40	1	1	1	1	1	1
3	101-04-17	压脚扳手轴O形圈	RUBBER RING	1	1	1	1	1	1
4	101-04-16-00	压脚扳手凸轮组件	HAND LIFTER CAM ASM	1	1	1	1	1	1
5	101-04-19-00	抬压脚前杠杆组件	HAND LIFTER LINK	1	1	1	1	1	1
6	101-04-22	开口挡圈	SNAP RING 5	1	1	1	1	1	1
7	101-04-20	前杠杆螺纹销	LINK SHAFT SM15/16x24	2	2	2	2	2	2
8	101-03-32	松线铺钉垫片	WASHER PLATE	1	1	1	1	1	1
9	101-04-22	开口挡圈	SNAP RING 5	3	3	3	3	3	3
10	101-04-18	压脚升降板	LIFTING LEVER BOARD	1	1	1	1	1	1
11	101-04-22	开口挡圈	SNAP RING	1	1	1	1	1	1
12	101-04-32	抬压脚拉杆螺钉	HINGE SCREW SM3/16x32	1	1	1	1	1	1
13	101-04-31	后杠杆轴位螺钉	HINGE SCREW SM15/64x28	1	1	1	1	1	1
14	101-04-30	抬压脚后杠杆	LIFTING LEVER RING	1	1	1	1	1	1
15	101-04-33	抬压脚顶杆	CONNECTING ROD VERTICAL	1	1	1	1	1	1
16	101-04-28	抬压脚拉杆	LIFTING LEVER CONNECTING ROD	1	1	1	1	1	1
17	101-04-22	开口挡圈	SNAP RING 5	2	2	2	2	2	2
18	101-04-27	松线顶板复位簧	TENSION RELEASE RETURN SPRING	1	1	1	1	1	1
19	101-03-33	松线铺钉弹簧	TENSION RELEASE PIN SPRING	1	1	1	1	1	1
20	101-03-31	松线铺钉开口挡圈	SNAP RING 4	1	1	1	1	1	1
21	101-03-30	松线铺钉	TENSION RELEASE SUPPORTING PIN	1	1	1	1	1	1
22	101-04-24	松线顶板	TENSION RELEASE PLATE	1	1	1	1	1	1
23	101-04-25	松线顶板螺纹销	TENSION RELEASE SHAFT SM5/16x24	1	1	1	1	1	1
24	101-04-01	调压螺钉	PRESSER REGULATOR SCREW	1	1	1	1	1	1
25	101-04-02	调压螺母	PRESSER REGULATOR NUT SM1/2x28	1	1	1	1	1	1
26	101-04-03	调压导杆	PRESSER GUIDE BAR	1	1	1	1	1	1
27	101-04-04	调压簧	PRESSER SPRING	1	1	1	1	1	1
28	101-04-06	压杆导架	PRESSER BAR GUIDE BRACKET	1	1	1	1	1	1
29	101-04-05	压杆	PRESSER BAR	1	1	1	1	1	1
30	101-04-08	缓线调节钩	PRESSER BAR THREAD GUIDE	1	1	1	1	1	1
31	101-04-07	压杆导架螺钉	SCREW SM1/4x40 L=8	1	1	1	1	1	1
32	101-04-09	缓线调节钩螺钉	SCREW SM9/64x40 L=8.5	2	2	2	2	2	2
33	101-04-10	压杆衬套	PRESSER BAR BUSHING LOWER	1	1	1	1	1	1
34	101-04-12	活压脚螺钉	SCREW SM9/64x40 L=10.5	1	1	1	1	1	1
35	1209-04-11-00	活压脚组件	PRESSER FOOT ASM.	1	1	1	1	1	1
36	101-04-34	压杆轴套锥形防油套	RUBBER BUSHING	1	1	1	1	1	1
37	101-04--15	压脚扳手螺钉垫圈	WASHER PLATE	1	1	1	1	1	1

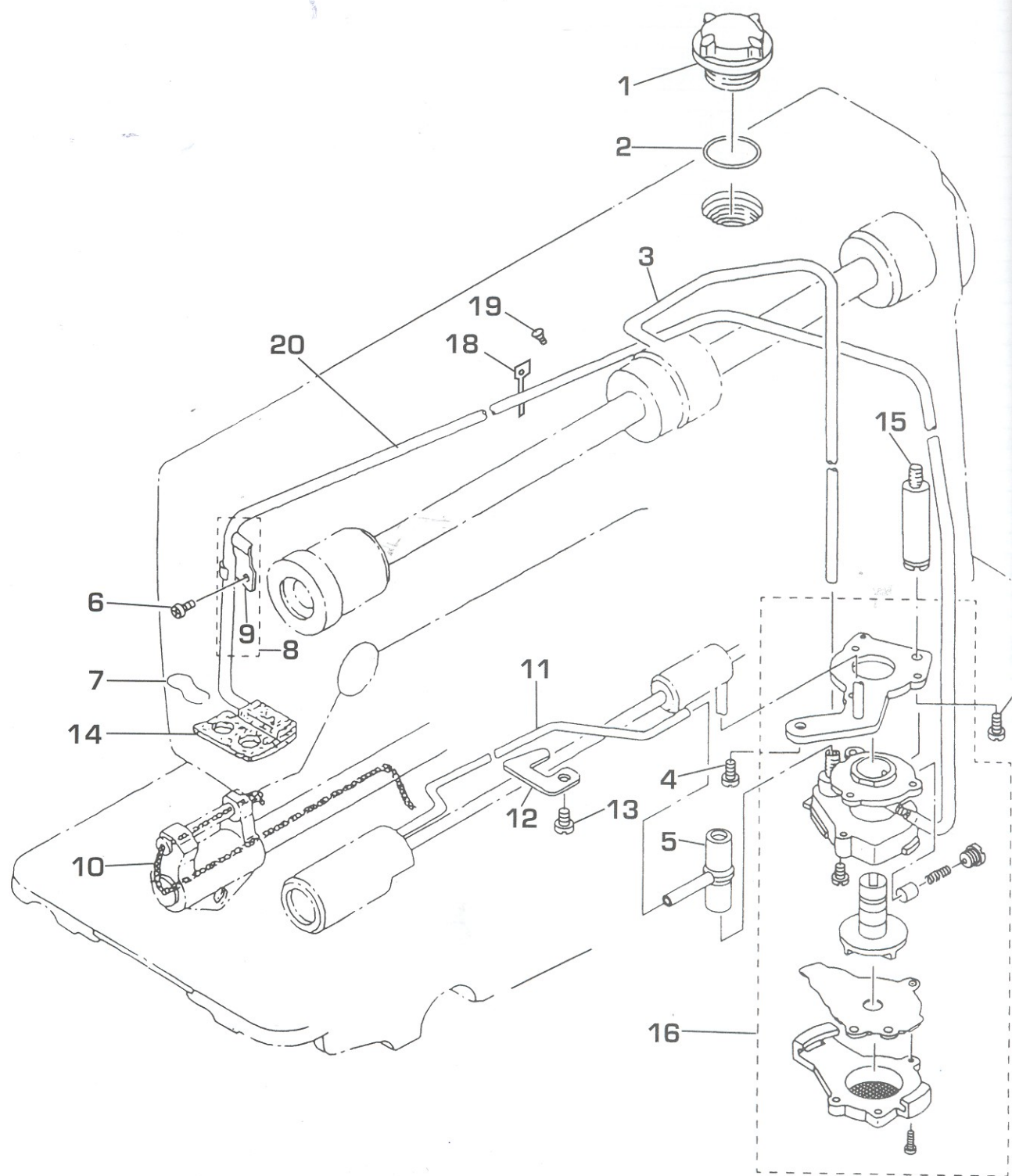
5. 送料分组件 FEED MECHANISM COMPONENTS



五、送料分组件(FEED MECHANISM COMPONENTS)

序号 NO	图 号	名 称	DESCRIPTION	数量(AMT)					
				-20	-25	-30	-35	-40	-50
1	101-07-12	倒送料连杆	FEED REGULATOR CONNECTING ROD	1	1	1	1	1	1
2	101-07-10	倒送料连杆销	FEED REGULATOR PIN	1	1	1	1	1	1
3	101-06-05	送料连杆销螺钉	SCREW SM9/64X40 L=6	2	2	2	2	2	2
4	101-07-07	送料调节器	FEED REGULATOR	1	1	1	1	1	1
5	101-07-08	送料调节器轴套	FEED REGULATOR BUSHING	1	1	1	1	1	1
6	101-07-09	送料调节座轴端螺钉	SCREW SM3/16X28	1	1	1	1	1	1
7	101-07-03	送料调节柱	FEED REGULATOR SCREW	1	1	1	1	1	1
8	101-07-06	送料距锁合簧	SPRING	1	1	1	1	1	1
9	101-07-05	送料距锁合销	PIN	1	1	1	1	1	1
10	101-07-01	送料距旋钮	FEED DIAL	1	1	1	1	1	1
11	101-07-02	送料距旋钮螺钉	SCREW SM3/16X28 L=9	1	1	1	1	1	1
12	101-06-06	送料连杆	ROCKER SHAFT CONNECTING ROD	1	1	1	1	1	1
13	101-06-07	送料连杆销	WALKING FOOT PIN C	1	1	1	1	1	1
14	101-06-05	送料连杆销螺钉	SCREW SM9/64X40 L=6	1	1	1	1	1	1
15	101-06-49	抬牙连杆	CONNECTING ROD	1	1	1	1	1	1
16	101-07-04	送料调节螺柱O形圈	RUBBER RING	1	1	1	1	1	1
17	101-07-22	倒送料拉簧	FEED REVERSE SPRING	1	1	1	1	1	1
18	101-04-22	开口挡圈	SNAP RING 5	1	1	1	1	1	1
19	101-07-20-00	倒送料曲柄组件	FEED REVERSE ASM	1	1	1	1	1	1
20	101-07-21	倒送料曲柄螺钉	FEED REVERSE ARM SCREW SM1/4X40	1	1	1	1	1	1
21	101-04-22	开口挡圈	SNAP RING 5	1	1	1	1	1	1
22	101-07-26	开口挡圈	ADJUSTING LINK SPRING	1	1	1	1	1	1
23	101-06-16	送料摆动板座右销	ADJUSTING LINK FULCRUM SHAFT B	1	1	1	1	1	1
24	101-06-11	短摆动座连接销	WALKING FOOT PIN A	2	2	2	2	2	2
25	101-06-19	送料长摆动板	WALKING FOOT LINK	2	2	2	2	2	2
26	101-06-10	送料短摆动板	CONNECTING LINK A	2	2	2	2	2	2
27	101-06-13-00	倒送料摆动板座组件	WALKING FOOT ADJUSTING LINK	1	1	1	1	1	1
28	101-06-14	送料摆动板座右销	ADJUSTING LINK FULCRUM SHAFT A	1	1	1	1	1	1
29	101-02-27	螺钉	SCREW SM16/64X28 L=7	2	2	2	2	2	2
30	101-06-05	连接销螺钉	SCREW SM9/64X40 L=6	2	2	2	2	2	2
31	101-06-32	牙架销	FEED BAR SHAFT	1	1	1	1	1	1
32	101-06-23	送料轴轴用挡圈	RETAINING RING	1	1	1	1	1	1
33	1209-06-34	送料牙	FEED DOG A	1	1	1	1	1	1
34	101-06-35	送料牙螺钉	SCREW SM1/8X44 L=6	2	2	2	2	2	2
35	101-06-31-00	牙架组件	FEED BAR ASM	1	1	1	1	1	1
36	101-07-24	摆动板复位板	ADJUSTING LINK SPRING GUIDE	1	1	1	1	1	1
37	101-07-25	摆动板复位板螺钉	SCREW SM11/64X40 L=5	2	2	2	2	2	2
38	101-07-23	拉簧固定板	FEED SPRING HOOK	1	1	1	1	1	1
39	101-06-22	送料轴	FEED ROCKER SHAFT	1	1	1	1	1	1
40	101-06-19	送料曲柄销	WALKING FOOT PIN B	1	1	1	1	1	1
41	101-06-05	送料曲柄销螺钉	SCREW SM9/64X40 L=6	1	1	1	1	1	1
42	101-06-51	抬牙连杆轴位螺母	NUT 9/32X28	1	1	1	1	1	1
43	1209-06-18	送料曲柄	FEED ROCKER SHAFT CRANK	1	1	1	1	1	1
44	1209-01-09	送料曲柄螺钉	SCREW M5X16	1	1	1	1	1	1
45	101-06-47	抬牙曲柄	REAR CRANK ASM	1	1	1	1	1	1
46	101-16-48	抬牙曲柄螺钉	SCREW SM3/16X28 L=12	1	1	1	1	1	1
47	101-06-50	抬牙连杆轴位螺钉	HINGE SCREW M5X16	1	1	1	1	1	1
48	101-06-44	抬牙轴	FEED DRIVING SHAFT	1	1	1	1	1	1
49	101-06-24	送料轴挡圈	THRUST COLLAR ASM D=14.72 W=12	1	1	1	1	1	1
50	101-06-20	送料轴挡圈螺钉	SCREW SM1/4X40 L=6	2	2	2	2	2	2
51	101-06-26	送料轴轴套	FEED ROCKER SHAFT BUSHING	1	1	1	1	1	1
52	101-02-09	送料轴轴套定位螺钉	SCREW SM15/64X28	1	1	1	1	1	1
53	101-06-33	牙架轴紧固螺钉	SCREW SM11/64X40 L=7	1	1	1	1	1	1
54	101-06-45	抬牙轴轴用挡圈	RETAINING RING	1	1	1	1	1	1
55	101-06-28	牙架座	FEED ROCKER ASM	1	1	1	1	1	1
56	101-06-21	牙架座螺钉	SCREW SM3/16X28 L=14	1	1	1	1	1	1
57	101-06-42	抬牙叉形曲柄	DRIVING SHAFT CRANK ASM, FRONT	1	1	1	1	1	1
58	101-06-43	抬牙叉形曲柄螺钉	SCREW SM11/64X40 L=10.5	1	1	1	1	1	1
59	101-02-09	抬牙轴轴套定位螺钉	SCREW SM15/64X28	1	1	1	1	1	1
60	101-06-26	抬牙轴轴套	FEED ROCKER SHAFT BUSHING	1	1	1	1	1	1
61	101-06-24	抬牙轴挡圈	THRUST COLLAR ASM D=14.72 W=12	1	1	1	1	1	1
62	101-02-07	抬牙轴挡圈螺钉	SCREW SM1/4X40 L=6	2	2	2	2	2	2
63	101-07-15	倒送料轴O形圈	RUBBER RING	1	1	1	1	1	1
64	101-07-14	倒送料轴	FEED REVERSE SHAFT	1	1	1	1	1	1
65	101-07-16	倒送料轴套	FEED REVERSE BUSHING	1	1	1	1	1	1
66	101-08-38	油线	OIL WICK	1	1	1	1	1	1
67	101-08-39	油线	OIL WICK	1	1	1	1	1	1

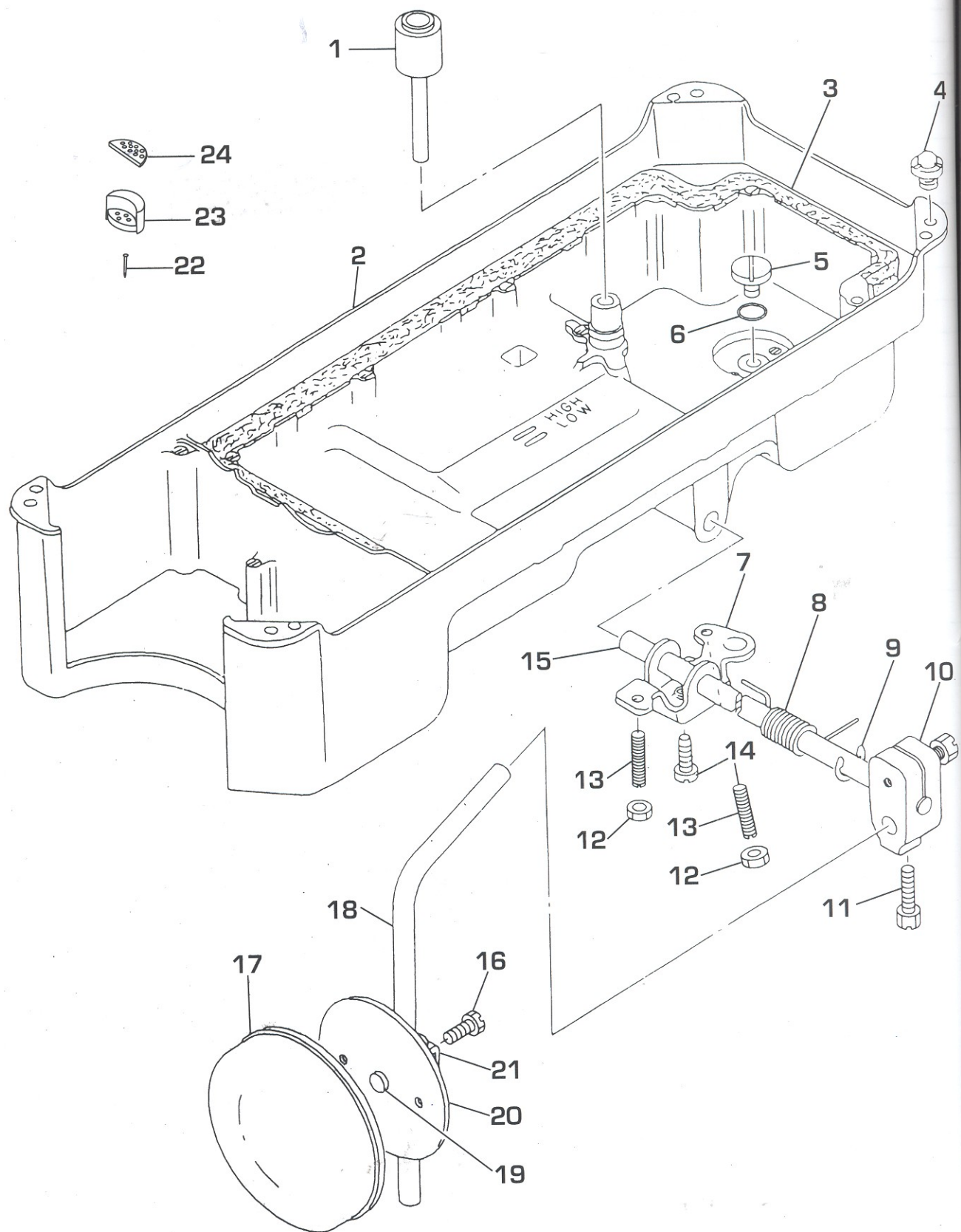
6. 润滑分组件 OIL LUBRICATION COMPONENTS



六、润滑分组件(OIL LUBRICATION COMPONENTS)

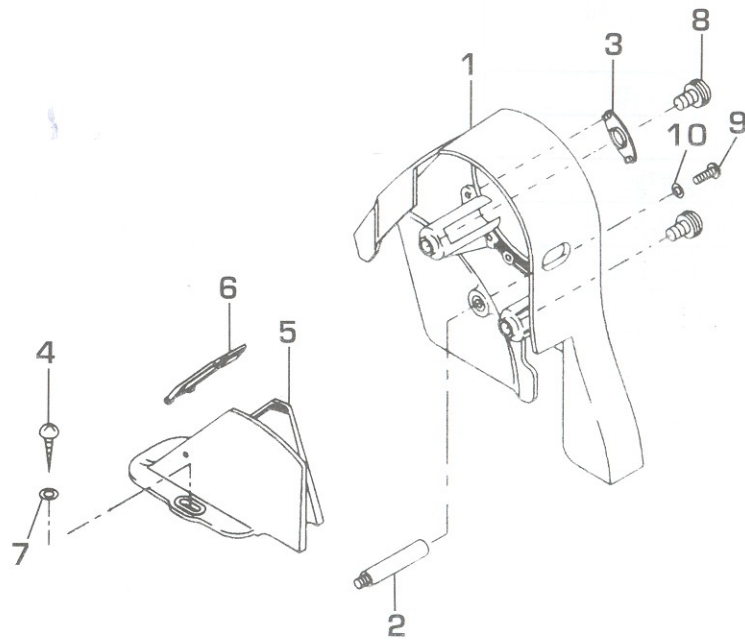
序号 NO	图 号	名 称	DESCRIPTION	数量(AMT)					
				-20	-25	-30	-35	-40	-50
1	101-08-25	油窗	OIL SIGHT WINDOW	1	1	1	1	1	1
2	101-08-26	油窗O形圈	RUBBER RING	1	1	1	1	1	1
3	101-08-19	上轴供油管	MAIN SHAFT OIL TUBE	1	1	1	1	1	1
4	101-08-01-03	油泵安装螺钉	SCREW SM15/64x28 L=9	1	1	1	1	1	1
5	101-08-18	供油管接头	RUBBER JOINT	1	1	1	1	1	1
6	101-02-30	回油管夹螺钉	SCREW SM3/16x28 L=6	1	1	1	1	1	1
7	101-08-33	回油毡夹	OIL FELT PRESSER	1	1	1	1	1	1
8	101-08-28-00	回油管夹组件	OIL RETURN TUBE HOLDER ASM	1	1	1	1	1	1
9	101-08-28-01	回油管夹	OIL RETURN TUBE HOLDER	1	1	1	1	1	1
10	101-06-27	送料轴油线	OIL WICK	1	1	1	1	1	1
11	1209-08-20	下轴供油管	OIL TUBE	1	1	1	1	1	1
12	101-08-23	旋梭轴供油管压板	TUBE HOLDER (LOWER)	1	1	1	1	1	1
13	101-08-01-03	压板螺钉	SCREW SM15/64x28 L=9	1	1	1	1	1	1
14	101-08-30	回油毡组件	OIL RETURN TUBE PLATE SDM	1	1	1	1	1	1
15	101-08-16	油泵连接螺柱	OIL PUMP SUPPORT SM15/64x28	1	1	1	1	1	1
16	101-08-01-00	油泵组件	LUBRICATING OIL PUMP ASM	1	1	1	1	1	1
17	101-08-17	螺柱连接螺钉	SCREW SM11/64x40 L=9.5	1	1	1	1	1	1
18	101-08-37	回油管压板	OIL RETURN CLAMP	1	1	1	1	1	1
19	101-08-29	回油管压板螺钉	SCREW	1	1	1	1	1	1
20	101-08-27	回油管	OIL RETURN TUBE	1	1	1	1	1	1

7. 油盘分组件 OIL RESERVOIR COMPONENTS



七、油盘分组件(OIL RESERVOIR COMPONENTS)

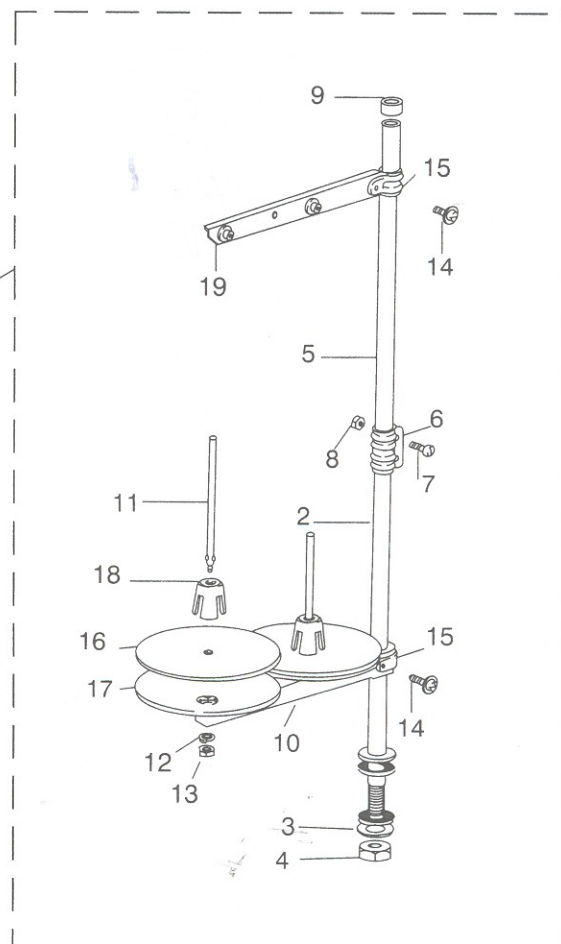
序号 NO	图 号	名 称	DESCRIPTION	数量(AMT)					
				-20	-25	-30	-35	-40	-50
1	101-09-02	抬压脚顶销	KNEE PRESS LIFTER ROD	1	1	1	1	1	1
2	1209-09-01	油盘	OIL RESERVOIR	1	1	1	1	1	1
3	101-09-03	油盘衬垫	GASKET	1	1	1	1	1	1
4	101-09-04	机头座垫	RUBBER CUSHION	4	4	4	4	4	4
5	101-09-05	排油孔螺钉	SCREW SM5/16x24	1	1	1	1	1	1
6	101-09-21	油塞螺钉O形密封圈	RUBBER RING	1	1	1	1	1	1
7	101-09-07	抬压脚双向曲柄	CONNECTING ROD VERTICAL	1	1	1	1	1	1
8	101-09-08	抬压脚曲柄簧	SPRING	1	1	1	1	1	1
9	101-09-09	抬压脚轴开口挡圈	SNAP RING 10	1	1	1	1	1	1
10	101-09-10	抬压脚操纵杆接头	KNEE PRESS ROD BEARING BRACKET	1	1	1	1	1	1
11	101-09-11	抬压脚操纵杆接头螺钉	SCREW SM15/16x28	2	2	2	2	2	2
12	101-09-14	限位调节螺母	NTU SM15/64x28	2	2	2	2	2	2
13	101-09-13	限位调节螺钉	SCREW SM15/16x28	2	2	2	2	2	2
14	101-09-12	抬压脚双向曲柄螺钉	SCREW SM15/16x28	1	1	1	1	1	1
15	101-09-06	膝抬压脚轴	KNEE PRESS ROD	1	1	1	1	1	1
16	101-09-16	操纵杆夹头螺钉	SCREW SM15/64x28 L=15	1	1	1	1	1	1
17	101-09-20	操纵板软垫	KNEE PRESS PLATE ASM	1	1	1	1	1	1
18	101-09-15	操纵杆	KNEE LIFTER PLATE ROD	1	1	1	1	1	1
19	101-09-18	操纵杆垫块	RUBBER	1	1	1	1	1	1
20	101-09-19	操纵板	KNEE PRESS PLATE	1	1	1	1	1	1
21	101-09-17	操纵杆夹头	KNEE PRESS PLATE HOLDER	1	1	1	1	1	1
22	101-09-25	油盘座钉	NAIL	8	8	8	8	8	8
23	101-09-24	油盘支座	OIL RESERVOIR RUBBER CUSHION	2	2	2	2	2	2
24	101-09-23	油盘座垫	OIL RESERVOIR FELT CUSHION	2	2	2	2	2	2



八、皮带罩分组件(BELT COVER COMPONENTS)

序号 NO	图 号	名 称	DESCRIPTION	数量(AMT)			
				-20	-25	-30	-35
1	101-12-04	带轮前罩壳	BELT COVER ,A	1	1	1	1
2	101-12-11	后罩壳支柱	BELT COVER SUPPORT	1	1	1	1
3	101-12-05	前罩壳安装架	BELT COVER, A CAP	1	1	1	1
4	101-10-24	木螺钉	WOOD SCREW D=4.1 L=20	2	2	2	2
5	101-12-06	上轮后罩壳	BELT COVER ,B	1	1	1	1
6	101-12-07	上轮后罩壳盖板	BELT COVER ,B COVER ASM	1	1	1	1
7	101-10-25	木螺钉垫圈	WASHER 4.5x10x0.8	2	2	2	2
8	101-12-10	前罩壳紧固螺钉	BELT COVER,A SCREW SM5/16x24 L=1	2	2	2	2
9	101-12-12	支柱螺钉	SCREW SM3/16x28 L=14	1	1	1	1
10	101-12-13	螺钉垫圈	WASHER 5x10.5x1	1	1	1	1

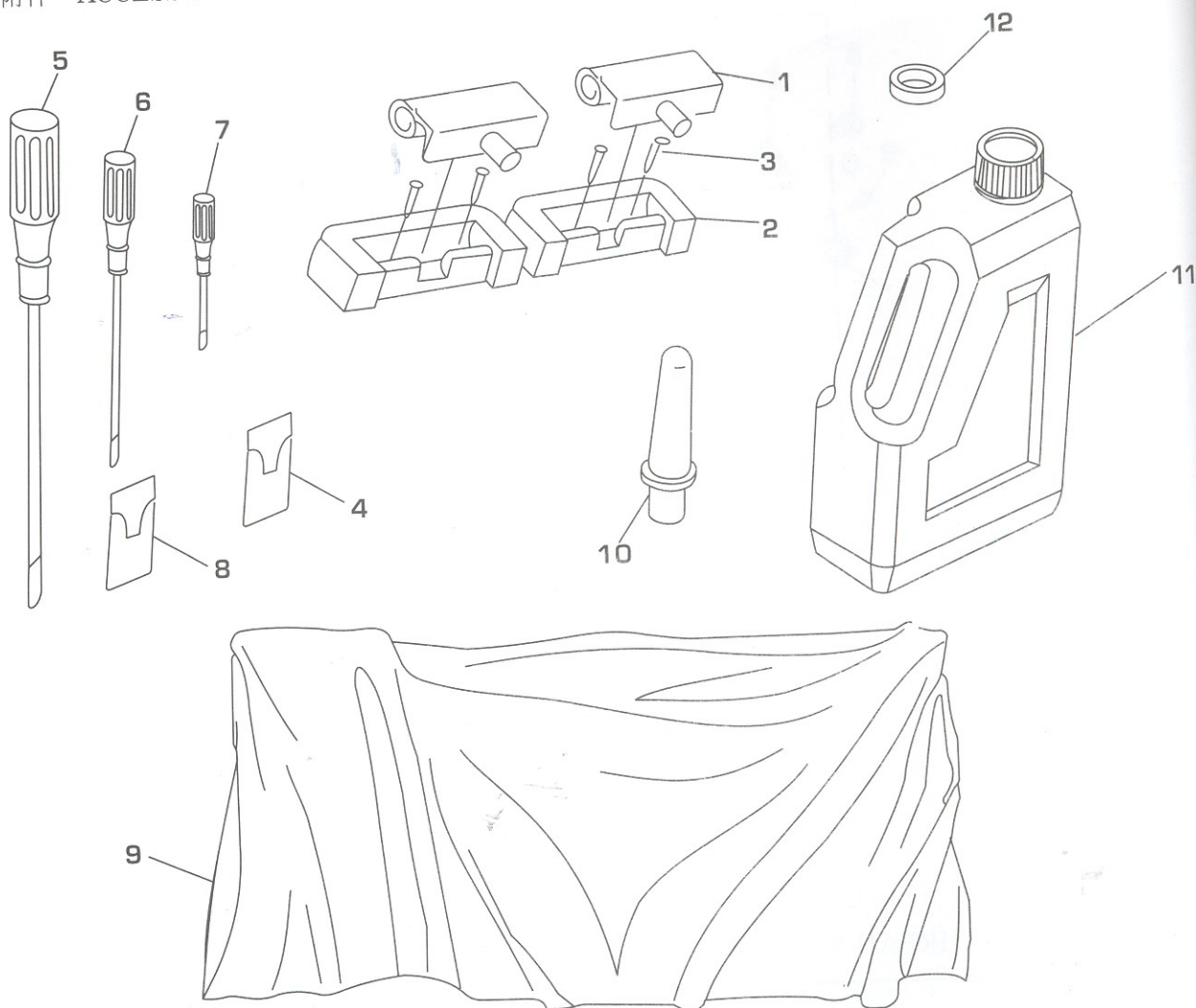
9. 线架分组件 THREAD STAND COMPONENTS



九、线架分组件 (THREAD STAND COMPONENTS)

序号 NO	图 号	名 称	DESCRIPTION	数量(AMT)					
				-20	-25	-30	-35	-40	-50
1	101-11-01	线架组件	THREAD STAND ASM	1	1	1	1	1	1
2	101-11-01-01	线架下直管	SPOOL REST ASM	1	1	1	1	1	1
3	101-11-01-02	线架下直管垫片	THREAD STAND LOWER TUBE CUSHION	2	2	2	2	2	2
4	101-11-01-03	线架下直管螺母	NUT	1	1	1	1	1	1
5	101-11-01-04	线架上直管	COLUMN PIPE(UPPER)	1	1	1	1	1	1
6	101-11-01-05	线架杆接头	COLUMN JOINT	1	1	1	1	1	1
7	101-11-01-06	直管接头螺钉	SCREW	1	1	1	1	1	1
8	101-11-01-07	直管接头螺母	NUT	1	1	1	1	1	1
9	101-11-01-08	上直管盖帽	UPPER TUBE CAP	1	1	1	1	1	1
10	101-11-01-09	线架过线杆	THREAD HANGER(LOWER)	1	1	1	1	1	1
11	101-11-01-10	线圈轴	THREAD TRAY SHAFT	2	2	2	2	2	2
12	101-11-01-11	线盘弹性垫圈	ELASTIC CUSHION	2	2	2	2	2	2
13	101-11-01-12	线圈轴螺母	NUT	2	2	2	2	2	2
14	101-11-01-13	过线架螺钉	SCREW	2	2	2	2	2	2
15	101-11-01-14	线架过线夹	WASHER	2	2	2	2	2	2
16	101-11-01-15	线盘垫	THREAD TRAY DIAC	2	2	2	2	2	2
17	101-11-01-16	线盘	THREAD TRAY	2	2	2	2	2	2
18	101-11-01-17	线圈芯	THREAD TRAY WICK	2	2	2	2	2	2
19	101-11-01-18	上过线架组件	THREAD HANGER(UPPER)	1	1	1	1	1	1

10. 附件 ACCESSORIES



十、附件 (ACCESSORIES)

序号 NO	图 号	名 称	DESCRIPTION	数量(AMT)				
				-20	-25	-30	-35	-40
1	101-12-01	机头连接钩部件	HEAD CONNECTING HOOK	2	2	2	2	2
2	101-12-02	机头连接钩座	HEAD CONNECTING HOOK SOCKET	2	2	2	2	2
3	101-12-03	机头连接钩座钉	HEAD CONNECTING HOOK NAIL	4	4	4	4	4
4	1209-03-13	机针 DPx5 18 #	NEEDLE DPx5 18 #	1	1	1	1	1
	1209-03-13A	机针	NEEDLE DBx1 18 #	1	1	1	1	1
5	101-12-15	螺丝刀 (大)	SCREW DRIVER (L)	1	1	1	1	1
6	101-12-16	螺丝刀 (中)	SCREW DRIVER (M)	1	1	1	1	1
7	101-12-17	螺丝刀 (小)	SCREW DRIVER (S)	1	1	1	1	1
8	1209-05-01	钩针 (CPX12 #18)	HOOK NEEDLE(CPX12 #18)	1	1	1	1	1
9	101-12-19	机头罩	HEAD COVER	1	1	1	1	1
10	101-12-20	机头支柱	HEAD POLE	1	1	1	1	1
11	101-12-21	油箱	OIL BOTTLE WITH OIL	1	1	1	1	1
12	101-09-22	油盘磁铁	OIL RESERVOIR MAGNET	1	1	1	1	1