

# SIRUBA

使用說明書與零件圖

INSTRUCTIONS BOOK & PARTS LIST

■ DL3880 Series



CE

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# 使用説明

## Operation Manual

## 一、開車前的注意事項

1. 油盤內未加油絕對不能開車.
2. 機器運轉時,從上輪外側看轉向應該為逆時針方向、注意、不能倒轉.
3. 在最初使用的一個月內,應把縫速降低為每分鐘3000針進行縫紉作業
4. 按照電動機標牌上的標注,檢查電源、電壓及單相、三相是否正確.

## 一、Pre-start checks.

1. The machine shall not be started running until the completion of oiling.
2. The rotating direction of the balance wheel, when the machine is started running, shall be in counter-clockwise one. (View from the right side of the balance wheel.) A warning shall be given in advance against making the machine run while balance wheel turning clockwise.
3. The machine shall be under operation at less than 3,000 s.p.m. for the first month.
4. Check power source, voltage and phase number to see whether they are in accordance with the ratings on the name plate of the motor to be used.

## 二、使用注意事項

1. 機器運轉時,請勿將手放到針的下部.
2. 機器運轉時,請勿將手指伸入挑線桿護罩內.
3. 機器已停止後,才能盤動上輪.
4. 關掉電動機開關後,由於慣性上的緣故,電動機還會繼續旋轉一段時間,所以要注意,未停止轉動不能將機器傾倒.
5. 機器運轉時,請勿將手指、頭髮或其它東西靠近或接觸上輪,"V"形皮帶、電動機、也不要將東西放置在它們附近
6. 裝拆皮帶罩及護指器時,請勿開動機器.

## 二、Operating instructions :

1. Do not put your hands under the lower part of the needle when the machine is running.
2. Do not put your fingers into the thread take-up lever cover when the machine is running.
3. Only when the machine stops can you turn the balance wheel by hand.
4. After the motor switch being turned off, due to inertia, the machine tilted unless it stops.
5. Keep away from the balance wheel, V-belt, winder and the motor.
6. Do not start running the machine during mounting or relacing the belt cover. finger guard, etc.

### 三、機器規格

線跡形式	並列雙針雙線鏈式縫
速度	最高每分鐘3500轉
機針	TV×7 14#~21# 或 UY128GAS 14#~20#
針跡長度	1.4~4mm
針桿行程	30mm
雙線間距範圍	1/8"(3.2mm) 3/16"(4.8mm) 1/4"(6.4mm)
挑線形式	針桿挑線
彎針	獨立調節式 1/8"~1/2" 通用
保針架	搖動式、固定式並用
膝提壓腳	上升量 8~10mm
供油	葉片泵
潤滑油	10號白油

#### Specification

Stitch type	Two-needle double-row chain stitch
Speed	Max. 3,500 s.p.m.
Needle	TV×7 14#~21# or UY128GAS 14#~20#
Stitch length	1.4~4mm
Stroke of needle bar	30mm
Gaugas of clouble-row chain stitch	1/8"(3.2mm) 3/16"(4.8mm) 1/4"(6.4mm)
Thread take-up type	Needle bar thread take u type
Looper	Separately adjustable type, for the range of 1/8"to 1/2"
Needle guard	Oscillating type and rigid type
Light clearance of knee lifter	8~10mm
Oil supply	Impeller-type pump
Lubricating oil	#10 while oil

### 四、機器的安裝(圖 1)

1. 油盤的安裝：將油盤支座①和油盤座③裝在桌板矩孔的四角,用油盤座釘②將其固定,再裝上油盤(圖 1).
2. 將機頭邊接鉤放入底板孔內,與桌板的機頭連接鉤座相嵌合,再將機頭放到四隻角的緩衝墊上.

#### 4、Installation of the machine(Fig.1)

1. To instal the oil reservoir :

Put the oil reservoir rubber cushion ① and oil reservoir felt cushion ③ on four corners of the opening of the table, fix them with the wood screws ②,then instal the oil reservoir (Fig.1)

2. Put the machine connecting hooks into the holes to engage respectively two hinges seated in the table, then place the machine on the four cushions.

### 五、加油(圖2.圖3)

1. 向油盤內加縫紉機油(10號白油)至HIGH記號部位(圖2).
2. 如果油面低於Low 記號,應再加油.

3. 加油後開動機器,潤滑正常時,應看到油液噴到油窗上(圖3).至於噴到油窗上的油量多少與總油量的多少無關,所以不必擔心.

4. 如需換新油,只要拆下油盤的排油螺釘,汗油就能排出.

5. 使用新機器或長期未使用的縫紉機時,需抬起壓腳以每分鐘3000針的速度空轉約10分鐘.

### 5、Oiling (Figs.2 and 3)

1. Oiling shall be made in oil reservoir and the oil surface also be made to level the mark "High" before the machine is started running (Fig.2)

2. Oiling shall be kept on until the oil surface has been brought above the mark "Low"(Fig.3)

3. The normal condition of lubrication is that the oil shall spray onto the oil sight. The amount of oil spraying onto the oil sight is not at all proportional to the total amount of oil in the oil reservoir. There is nothing to worry about.

4. Only when the drain cover screw is loosened and taken off can old oil be drained out and new oil be supplied again.

5. When a new model or those standing idle for long time are to be operated, presser foot shall be lifted and run idle for about ten minutes.

### 六、面部油量調節(圖4)

轉動油量調節銷,可以調節針桿連桿銷的供油量,調節銷的刻點,靠近針桿連桿銷時,油量最小,反之,則油量最大(圖4).

注意：調節油量時要十分注意,供油量並不是隨調節立刻變化的.

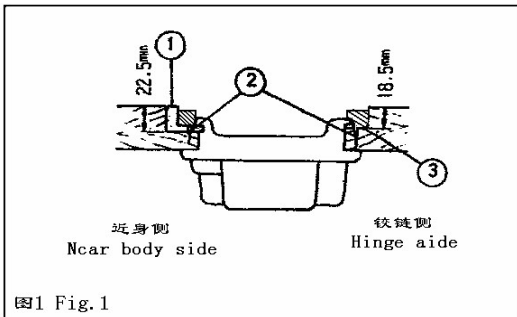


图1 Fig.1

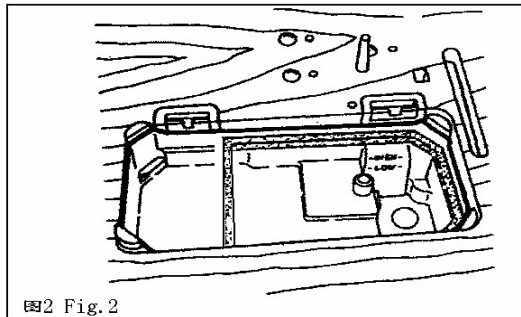


图2 Fig.2

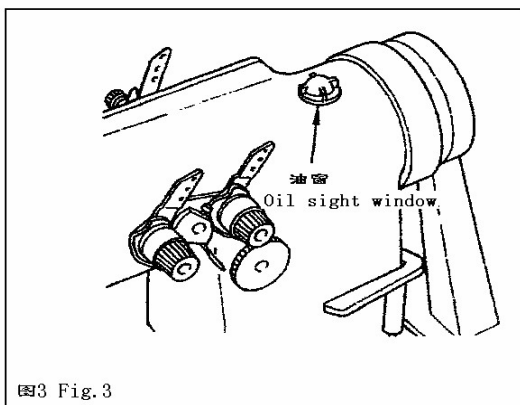


图3 Fig.3

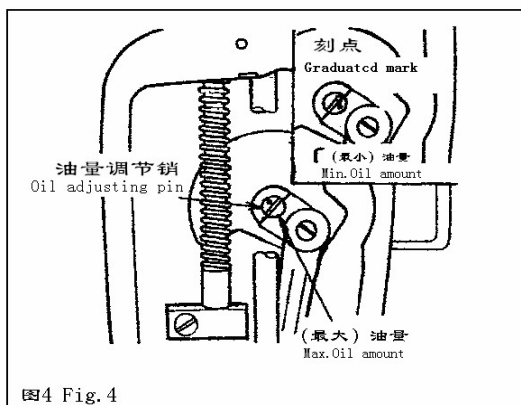


图4 Fig.4

## 6、How to regulate oil amount by means of manipulating elements on the faceplate(Fig.4)

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

## 七、面線穿線法(圖5)

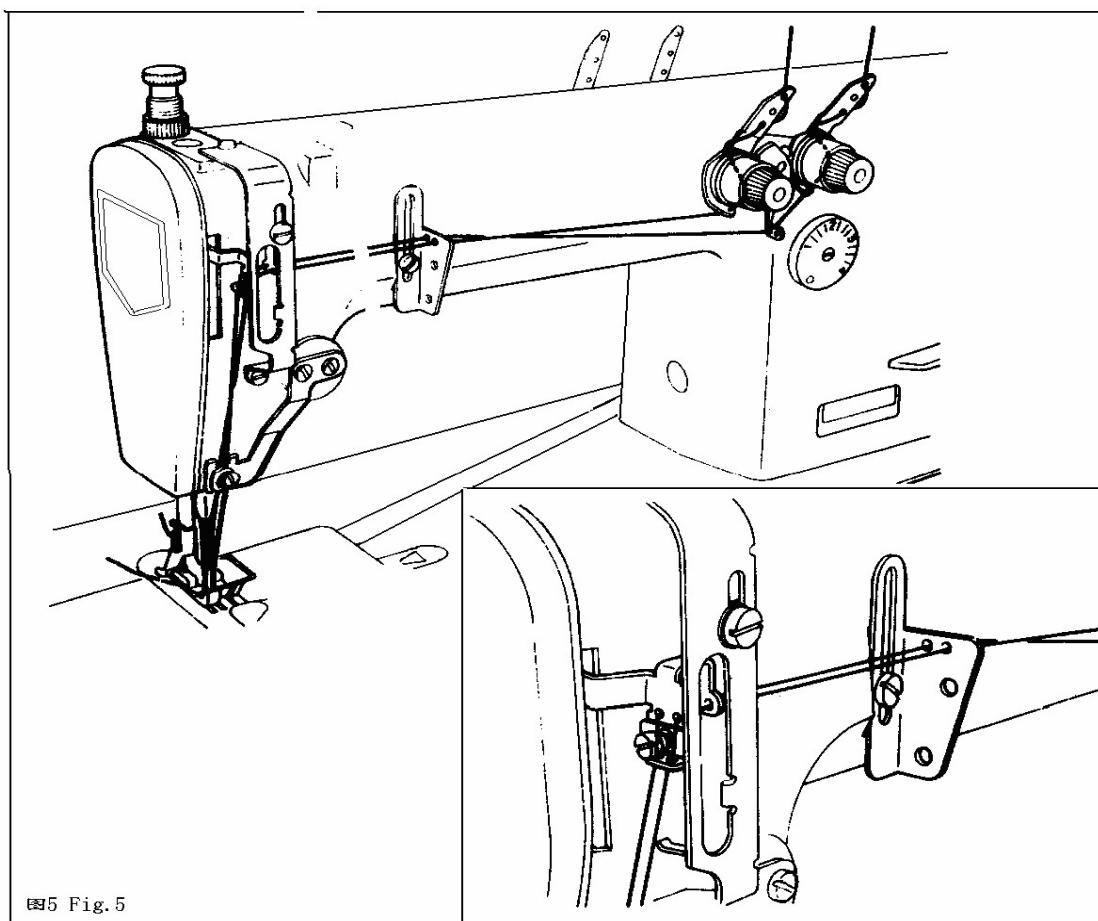
在針桿上升到最高位置時,按圖5所示順序依次穿過各線孔.

1. 線從操作者一側向外穿過機針.
2. 面線穿過機針後必須再拉出100mm長線頭.

## 7、The threading of needle thread.

To thread the eyes of the needles in the order as shown in Fig.5 :

1. To make thread go through the eye of the needle outwards. (View from the operator's side)
2. To pull out 100mm of the remaining thread after needle thread going through the eyes of the needles.



## 八、底線的穿法(圖6、圖7)

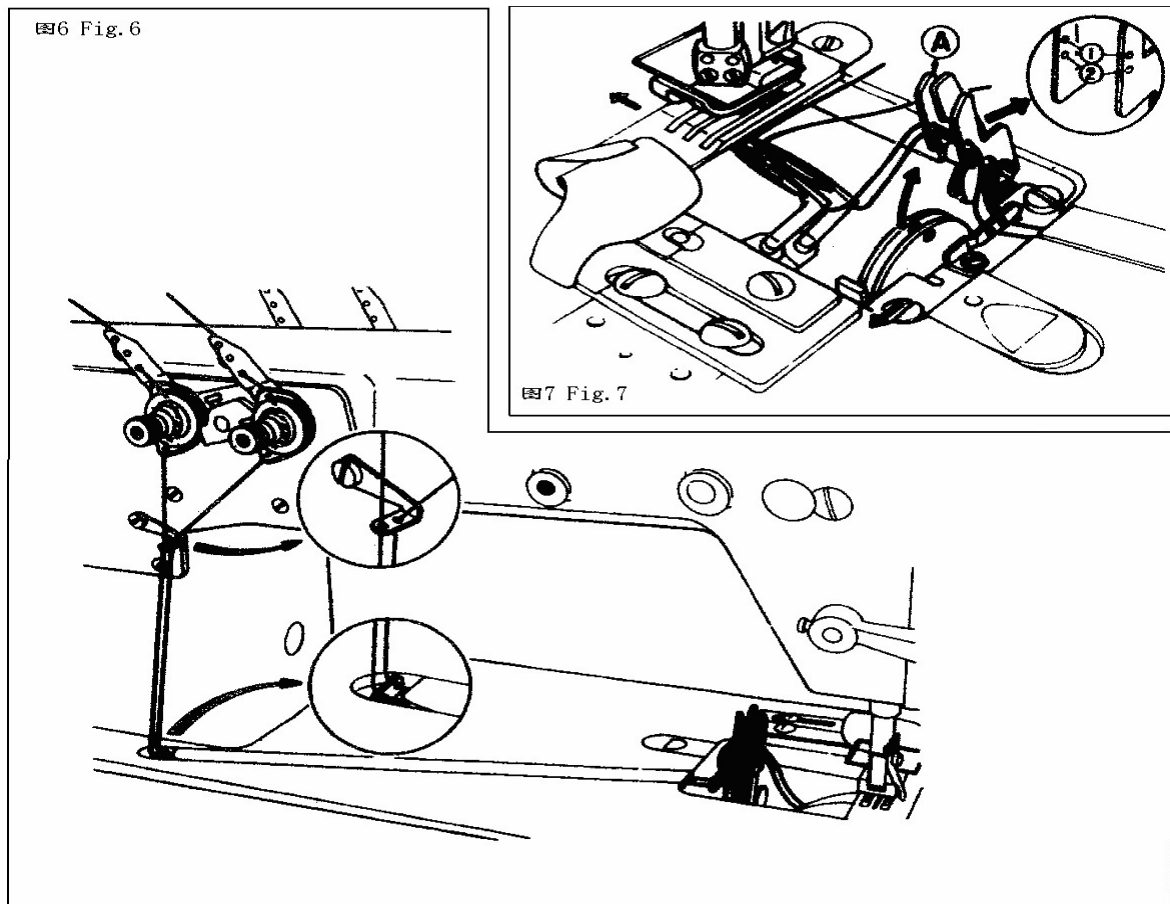
底線按圖示順序依次穿過各線孔。

1. 按圖6 所示穿過夾線器單面導線板,如用撚度大的線或縫紉時需送料距大的時候應穿二個孔。
2. 把圖中的扳簧朝操作人員側拉,A 就向上抬起。
3. 穿彎針線時,用附件中的鑷子按圖所示將線穿過,在彎針的前端拉出50mm長線頭。

## 8、The threading of bobbin thread(Fig.6 and 7)

To make bobbin thread go through the eye of the needle in the order as shown in (Figs.6 and 7) :

1. Make the bobbin thread go through the tensioner guide plate; go through the two holes when thread of harder twist fibre is used and feed gauge is wider than usual.
2. Pull the spring toward the operator, as shown in Fig.7 and part A will rise upwards
3. When threading the looper, the thread shall be made go through the eye of the needle with a tweezer as shown in Fig.7 and 50mm of remaining thread be pulled out





### 九、夾線器(圖8、圖9、圖10)

面線張力的調節(圖8所示)：向右轉動夾線螺母張力變大。

底線張力的調節(圖9所示)：向右轉動夾線螺母張力變大。

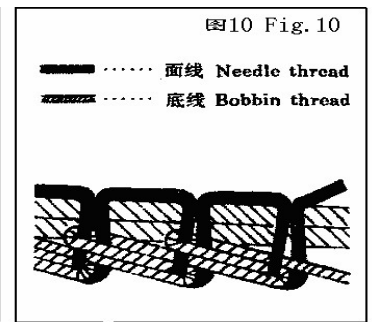
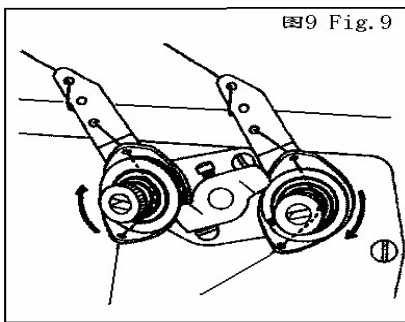
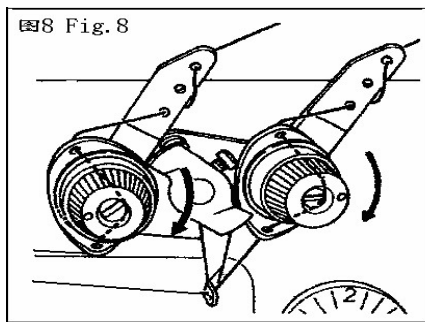
底面線的關係(圖10所示)為鏈式線跡的形成。

### 9、Thread tension asm.(Figs 8,9 and 10) :

To adjust needle thread tension in accordance with sewing working condition, we can adjust needle thread tension by tension spring. Turn the tension nut clockwise to increase the tension; turn counter-clockwise to decrease the tension.

To adjust bobbin thread tension :

Turn tension screw clockwise to increase the tension; turn tension screw counter-clockwise to decrease the tension. The relation between the needle thread and the bobbin thread as shown in (Fig.10) depicts the forming of chain stitch.



### 十、壓腳(圖11、圖12)

壓腳壓力的調節(圖11)：順向轉動壓腳調壓螺釘,壓力增強,反之則壓力減弱.對一般布料而言,壓腳調壓螺釘的標準高度為27~30mm (5公斤)左右。

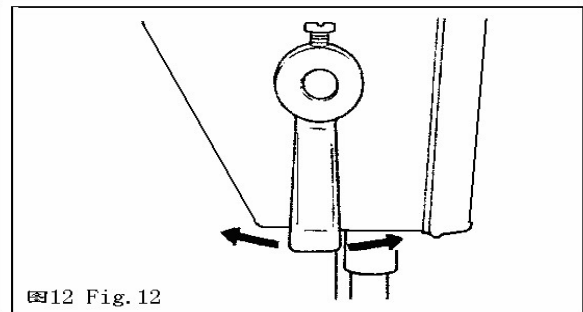
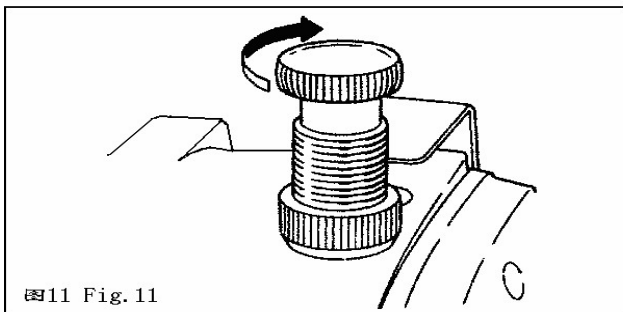
要使壓腳保持在抬起位置,只要把壓腳扳手向左或向右轉動即可(圖12)。

### 10、Presser foot (Figs.11 and 12) :

Adjustment of pressure on presser foot (Fig.11)

Turn pressure regulating thumb screw clockwise to increase the pressure; turn pressure-regulating thumb screw counter-clockwise to decrease the pressure. For general fabric the standard height of pressure regulating thumb screw is about 27~30mm (5Kg.)

The presser bar lifter shall be turned either leftward or rightward in order to keep the presser foot under the condition of lifting position.



## 十一、針距的調節(圖13)

1. 針跡長度的調節(圖13)只要旋轉倒送料扳手上的針距調節旋扭至所需數字即可，旋扭上刻度的數字用mm表示。

2. 針跡從大到小改變送料刻度時，應一邊將倒送料扳手朝下壓，一邊轉動送料距旋扭。

3. 針跡長度最大是4mm，最小是1.4mm。

4. 按下倒送料扳手，針跡變為緊密縫(1.4mm)，該功能可用於起始縫和終止縫，或需加強縫紉的部份。

5. 本機不能進行倒縫。

## 11、To adjust stitch length (Fig.13)

1. Turn feed regulating dial to the figure desired. The value of graduation is shown in millimetre(mm).

2. If you intend to change the stitch length, press down the reverse feed lever while turning the feed regulating dial.

3. Max. stitch length is 4mm : Min. stitch length is 1.4mm.

4. When reverse feed lever is pressed down, right-needle stitch of 1.4mm will be formed; this version of stitch is suitable for beginning and end seaming or bartacking.

5. The machine can not make reverse stitching.

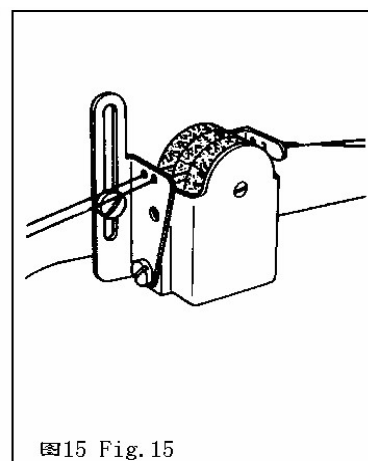
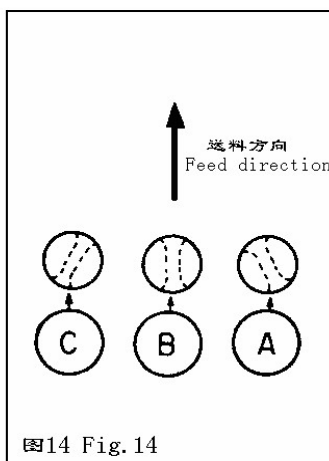
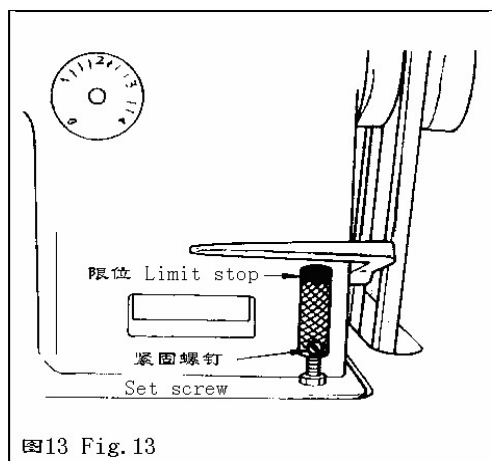
## 十二、針距的安裝(圖14、圖15)

在使用化纖線時，機針針孔的方向不能如(圖14)中C的方向安裝。

機針請使用TV×7的#14~#21或UY128GAS #14~#20型機針。用化纖線縫製時，可按(圖15)所示形式放置矽油，油箱應另外定制。

## 12、Setting-up of the needle :

When thread of chemical fibre is used, the direction of the needle eye shall not be in that one, as shown in part C of Fig.14. Needle types be desired fall within the range of #14 to #21 of TV×7; the specifically numbered needle of #14 to #20 of UY128GAS is also acceptable. Oil tank shall be custom-made when thread of chemical fibre is used; silicone oil can be placed like that, as indicated in Fig.15.



## 十三、壓腳高度的調節(圖16)

為了調換壓腳或改變壓腳高度，角度需要：

1. 拆下面板上的孔塞(圖16)。

2. 旋鬆壓桿導架的緊固螺釘進行調節。

### 3. 調節後旋緊緊固螺釘

## 13、Adjustment of the height of the presser bar : (Fig.16)

For the requirements of either replacing the presser foot or changing the height and angle of presser foot, the following shall be observed.

1. Take off the rubber plug in the hole from the face plate, as shown in Fig.16.
2. Loosen the presser bar guide bracket set screw.
3. after adjusting, retighten the screw

## 十四、送料牙的調節(圖17,圖18)

旋鬆圖18所示螺釘②,送料牙的傾角即可調節成標準型、A型、B型,送料牙最大突出量是0.8mm,用圖17中螺釘①調節.

### 14. Adjustment of the height of the feed dog(Fig.17 and 18)

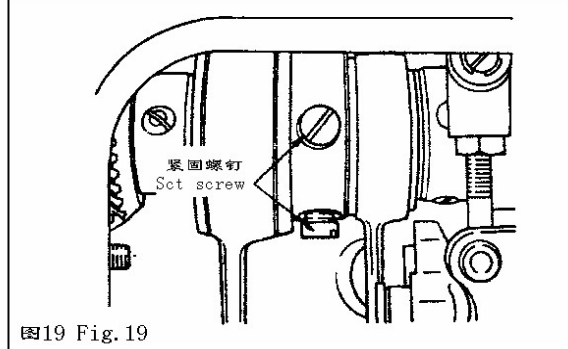
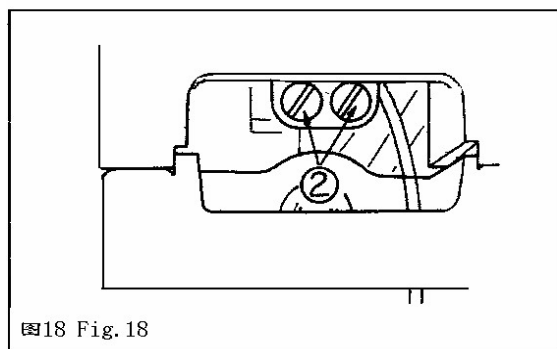
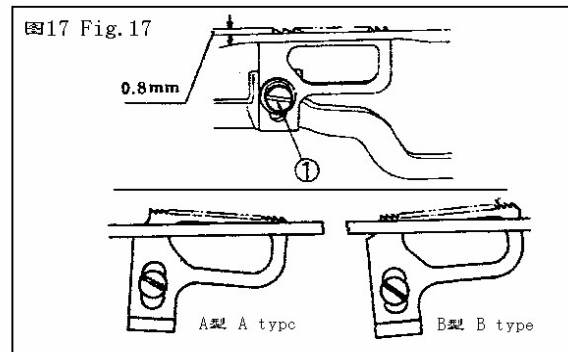
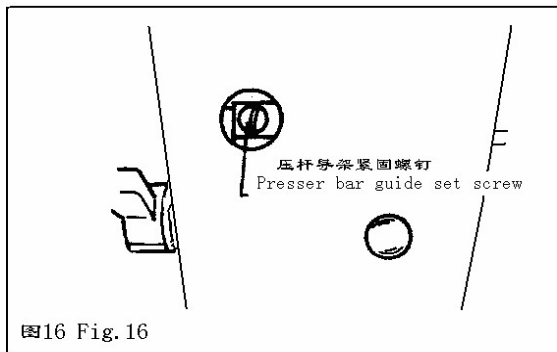
Loosen the set screw ②, as shown in Fig.18, the angle of the feed dog can be adjusted to the specified one of standard version, A version, and B version. The Max.height of 0.8mm of the projection from feed dog is adjustable by the adjusting of screw ① as shown in Fig.17.

## 十五、送料牙與針的同步(圖19)

針尖下降至針板上平面3mm時,送料牙剛好全部下降至針板上平面以下,此時正好同步.可調節圖19中的螺釘.

### 15、The timing of feed dog and needle : (Fig.19)

When the point of needle lowering down to the location of 3mm from the upper surface of the throat plate, the feed dog is right at the position below the upper surface of the throat plate, viz. the running of feed dog going well regulated in relation to the motion of needle.



## 十六、針桿高度的調節(圖20)

使用TV×7機針時,可用針桿上的刻線.針桿在下死點時,針桿上刻線應對準針桿下襯套的下端面(如圖20所示),這樣就決定了針桿的高度.

### 16、Adjustment of the height of needle bar : (Fig.20)

When the needle of TV×7 is used, if the graduation on the needle bar is at the bottom deadcentre, the mark of graduation shall be in line with the lower end of the needle bar bushing, lower, as indicated in Fig20.

## 十七、機針和彎針的調節(圖21、圖22)

彎針前後運動量的調節：

按如下順序調節可得彎針橢圓運動中(圖21)所示的B尺寸,通常B的尺寸在最大時為3.7mm,各種規格的機針都能縫紉.

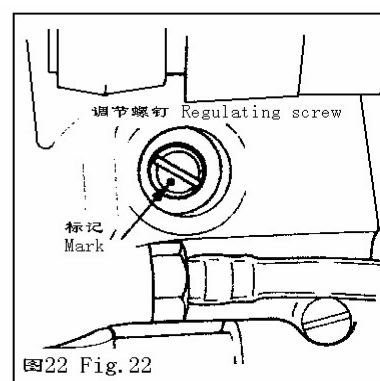
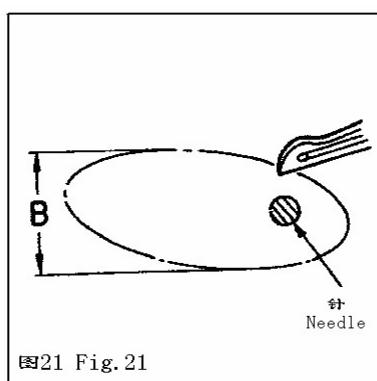
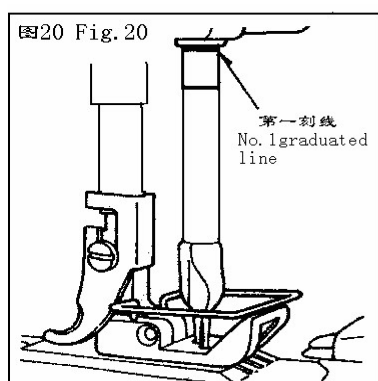
1. 拆下彎針曲柄罩殼上的橡膠塞(圖22).
2. 用手轉動上輪.
3. 先旋鬆定位螺釘和緊固螺釘,調節有標號的螺釘.
4. 把調節螺釘上的沖印標記向右旋轉,則B的尺寸就會變大,反之變小.
5. 旋緊定位螺釘和緊固螺釘.

### 17、Adjustment of the needle and looper(Figs.21 and 22)

Adjustment of forward & backward motion of the looper : The dimension of part B of the looper in an elliptic motion can be measured, (refer to Fig.21). The max. dimension of part B is usually 3.7mm, suitable for sewing operation of needles of all kinds of sizes.

The adjusting procedure is as follows :

1. Take off the rubber plug on the crank case of the looper(refer to Fig.22)
2. Turn the balance wheel by hand.
3. First loosen set screw and positioning screw, and then adjust marked screw.
4. Turn clockwise the adjustable screw on which punch mark is printed, and The dimension of part B will be increased in value.
5. Tighten set screw and positioning screw.



## 十八、彎針相對機針的同步(圖23)

機針在最低點時,彎針退到最後,旋鬆圖示齒輪的螺釘進行同步調整(如圖23).

### 18、The timing of looper in reference to needle(Fig.23)

The looper shall be moved backward to the lowest position while the needle is at

the bottom dead centre; loosen the screw on the gear and make riming adjustment of the looper in relation to the needle (refer to Fig.23).

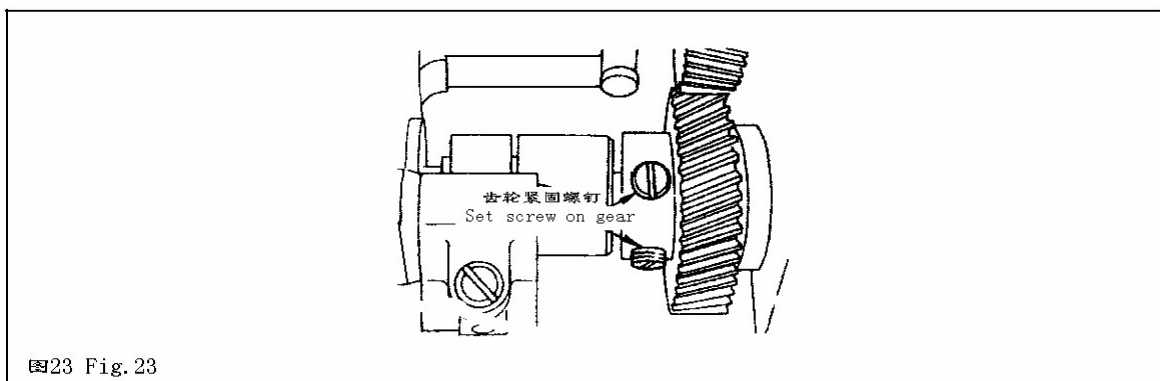


图23 Fig. 23

### 十九. 彎針的勾取量(圖24)

1. 彎針的針尖到達機針的中心位置時, 彎針針尖離機針孔上端的距離標準值是2mm, 此時針桿下刻線和針桿下襯套下端面對齊.(如圖24)
2. 彎針的後退量約3.5mm .
3. 機針和彎針孔的相對關係如圖24所示.(左右彎針可以分別調整)

### 19. Thread-guiding amount of the looper (refer to Fig.24)

1. The standard value of the vertical distance of the point of the looper away from the upper end of the eye of the needle is 2mm, then the graduation mark on the lower part of the needle bar shall be in line with the lower end of the needle bar bushing, lower.(refer to Fig.24)
2. The value of the stroke moved backward by the looper is about 3.5mm .
3. The relation between the eye of the needle and the eye of the looper is indicated in Fig.24.

(Note that the left looper and the right one can be separately adjusted).

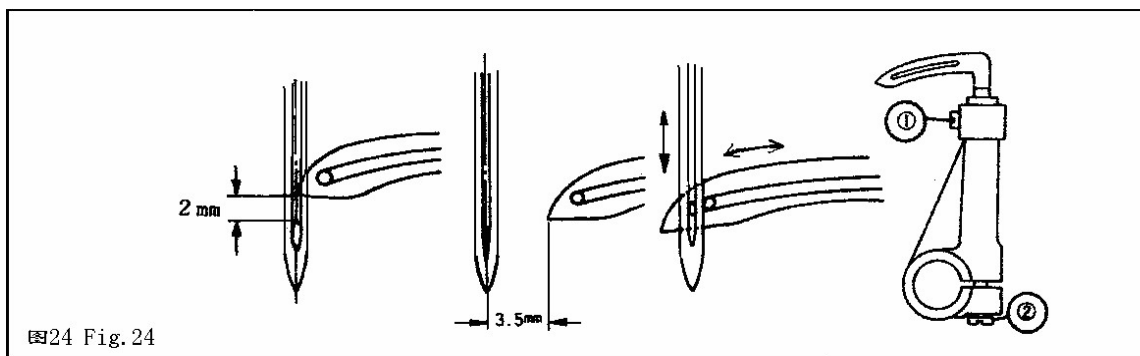


图24 Fig. 24

### 二十、彎針和機針間和間隙

保針架調整後, 機針和彎針間應留有一定間隙, 即用手指輕壓機針, 機針也不應碰到彎針針尖. 如果間隙太小了, 機針的側面與彎針針尖就會因相互碰撞而損傷.

### 20、The clearance of looper and needle :

After adjusting the needle guard, the clearance of a given value between the needle and the looper shall be kept unchanged; the needle shall not touch at the point of the looper when it is pressed down softly. If the clearance is narrower than

usual, the side of the needle and the point of the looper are apt to incur breakage due to the impact of the needle side against the looper point

### 二十一、保針架的同步(圖25)

保針架的同步,由(圖25)中第一螺釘旋入彎針軸上的平面而決定.

### 21、The timing of needle guard : (Fig.25)

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

### 二十二、保針架的位置(圖26)

擺動保針架位置,使彎針勾取面線時讓機針的針尖輕輕觸及保針架,其高度應調整到不觸及固定保針架範圍,旋鬆(圖26)中螺釘①②即可進行調節.

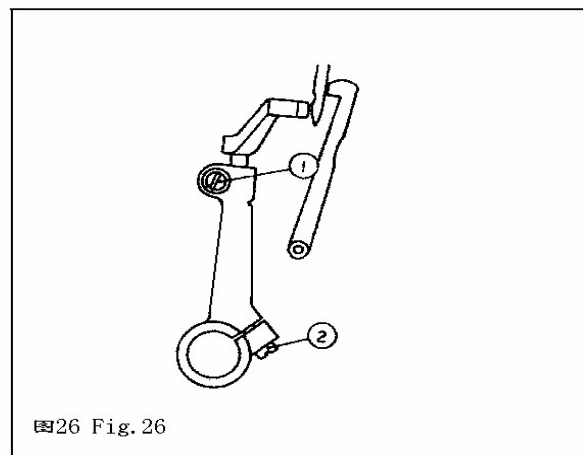
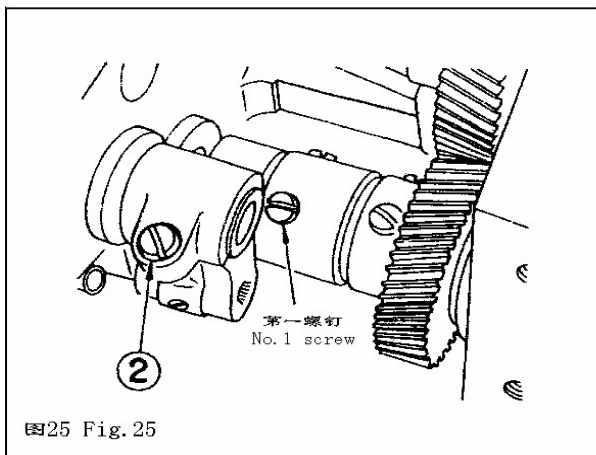
固定保針架和擺動保針架之間的關係(如圖26)所示,與機針的間隙為0.1~0.2mm,縫紉機運轉時不能強行夾住機針.

### 22、Position of needle guard: (Fig.26)

Oscillating the needle guard to make the needle tip contact with needle gauge slightly.

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

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



### 二十三、底線打線凸輪(圖27)

底線打線凸輪的位置如圖27所示,針桿在最高點時,打線凸輪平面部分和鋼絲平行部分的夾角為18°~20°,旋鬆螺釘B進行調整,位置決定後再旋緊.

調整時注意下列事項:底線從打線凸輪的突端A脫出時,針尖要完全進入底線彎針的線環中.

### 23、Looper thread take-up cam : (Fig.27)

Its position can be seen as shown in Fig.27 When the needle bar is at the top deadcentre, the planes of the cam and the steel wire are in parallelism; the projecting

part of the cam can slightly rise at the angle of 18 to 20 degrees; first loosen screw B, and then make adjustment, finally tighten the screw firmly. Pay close attention to the following : The needle tip shall entirely come into the thread loop of the looper when the bobbin thread rejecting from the projecting part of the cam.

#### 二十四、挑線桿線量調節板的位置(圖28)

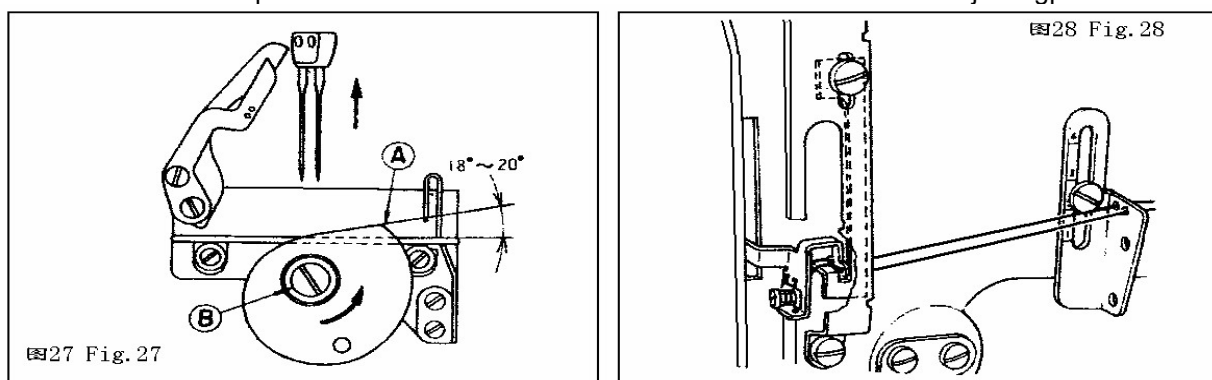
針桿在最低點時,如圖28所示,用挑線桿線量調節板擋住面線,這樣勾取面線時,面線線環變大。

此外,針桿在最低處時,也有拉緊面線線環的作用,通常在使用較細的縫線時,應把線量調節板降到最低點。

#### 24、The position of the thread-amount adjusting plate of the head take-up lever : (Fig.28)

The thread-amount adjusting plate will retain the bobbin thread when the needle bar is at the bottom dead centre; in such a way the loop of the needle thread is to become bigger when the needle thread is hooked. In addition to the foregoing there is a function of the tight pulling of the needle thread loop. The thread-amount adjusting plate usually reduces to the lowest point when a thread finer than normal is used.

Note that take-up thread tension lever is another name for thread-amount adjusting plate.



#### 二十五、中間導線鉤(圖29)

中間導線鉤的位置也關係到跳針現象的發生,一般把下列位置作為基準(圖29)

棉線#80~#50	中間導線鉤刻度2-3
棉線#30~#20	中間導線鉤刻度3-4
化纖線#80~#50	中間導線鉤刻度1-2
化纖線#30~#20	中間導線鉤刻度2-3

#### 25、Frame thread eyelet : (Fig.29)

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

The following locations are generally regarded as criteria(refer to Fig.29)

Cotton thread #80~#50	Graduation marked on the frame thread eyelet 2-3
Cotton thread #30~#20	Graduation marked on the frame thread eyelet 3-4
Thread of chemical fibre #80~#50	Graduation marked on the frame thread eyelet 1-2
Thread of chemical fibre #30~#20	Graduation marked on the frame thread eyelet 2-3

## 二十六、針板的調換(圖30)

針板出廠標準規格為1/4"(6.4mm).(圖30)

改變縫線間距通常同時要更換：

1. 針夾
2. 活壓腳
3. 針板
4. 送料牙
5. 擺動護針桿
6. 捲邊器

左彎針和右彎針在1/8"~1/2"針板規格之內都通用.針板寬度大時,除上述零件外還要調換推板和凸輪蓋.

## 26、Replacement of throat plate : (Fig.30)

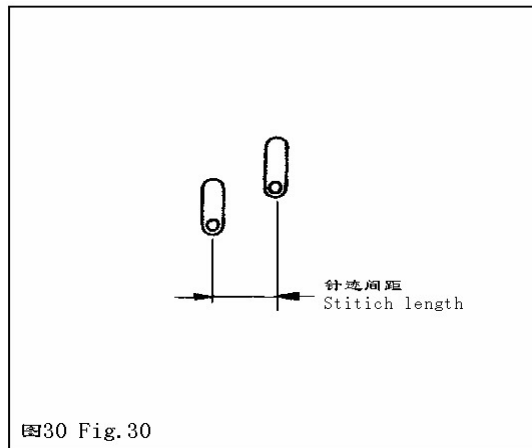
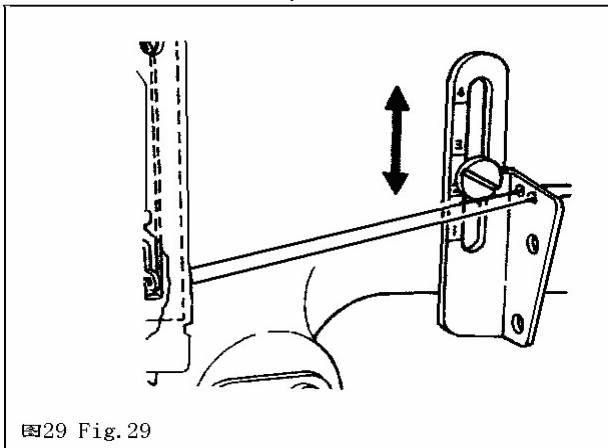
The standard size of the throat plate in parts book, which is stipulated by the manufactory, is 1/4",equivalent to 6.4mm.(Fig.30)

The replacement of the following components is usually needed at the time when changing the gauge of double-row thread stitch.

1. Needle clamp
2. Hinged foot
3. Throat plate
4. Feed dog
5. Rear moving needle guard
6. curler

The left and right loopers within the range of the sizes of 1/8" to 1/2" are interchangeable.

In addition to the aforesaid, the replacement of slide plate and cam cover shall be made when the width of throat plate is on the increase.



## 二十七、縫紉機的保養

為了使縫紉機保持良好的工作狀態,要做到以下事項：

(一).每日必須檢查的事項：

1. 運轉時,油窗內的油在飛濺.
2. 運轉時,一聽到有異常聲音,即應停止縫紉作業,並請修理工來檢查

(二).每週一次檢查部位：

1. 拆下針板、推板、凸輪蓋,用刷子清洗送料牙槽中的灰塵.
2. 把機頭翻轉,去除油泵過濾網上的垃圾及油盤內的灰塵.
3. 發現潤滑油黑髒時,只需旋下油盤的排油螺釘排空汙油,換入新的潤滑油.
4. 油面必須高於最低線(Low).
5. 用布擦去沾在油盤磁鐵上的黑粉.

## 27、maintenance of the machine.

The following shall be adhered to in order to keep the machine in good working



condition :

(1).Daily checking :

1. the oil shall spray onto the oil sight when the machine is running.
2. Repairman shall be sent for when abnormal sound is heard during the operation of the machine.

(2).locations to be checked once a week :

1. To take off throat plate, slide plate, and cam cover; to clean dust of the slotted feed dog with a brush.
2. To turn over the head to rid both the oil filter screen on the oil pump and the interior of the oil reservoir of oil stain and dust.
3. Loosen drain hole screw and take it off; drain all the dirty oil from the oil reservoir and reoil it
4. Oil level must be above the lowest oil-level-indicating line marked "Low"
5. The black powder, adhering to the magnet in the oil reservoir shall be wiped with sponge cloth.

### 二十八、故障和措施

No.	事故內容	原因	對策
1	斷線	<ol style="list-style-type: none"> <li>1. 縫線品質差</li> <li>2. 縫線太粗</li> <li>3. 機針過熱溶斷縫線</li> <li>4. 縫線張力太強</li> <li>5. 機針、彎針、針板、保針架過線部份損傷</li> <li>6. 線量未調節好</li> </ol>	<ol style="list-style-type: none"> <li>1. 使用品質好的縫線</li> <li>2. 調換合適的縫線</li> <li>3. 使用矽油或降低轉速</li> <li>4. 旋鬆夾線螺母</li> <li>5. 用油石磨光再拋光</li> <li>6. 調節線量調節板</li> </ol>
2	跳針	1. 面線跳針	<ol style="list-style-type: none"> <li>1. 調整彎針勾取量</li> <li>2. 調整彎針與機針的間隙</li> <li>3. 調整機針同彎針的同步</li> <li>4. 根據縫線的情況調整線量調節板</li> <li>5. 調整中間導線鉤的位置</li> <li>6. 檢查機針安裝是否正確</li> <li>7. 檢查保針架的位置和同步是否正確</li> <li>8. 檢查縫線是否穿正確</li> </ol>
		2. 底線跳針	<ol style="list-style-type: none"> <li>1. 按上述面線跳針1.2檢查</li> <li>2. 檢查底線凸輪的同步</li> <li>3. 稍微增強底線的張力</li> <li>4. 檢查縫線穿得是否正確</li> </ol>
		3. 使用化纖線時的跳針	<ol style="list-style-type: none"> <li>1. 使用矽油</li> <li>2. 降低轉速</li> <li>3. 使用化纖線用的機針</li> </ol>
		4. 使用合成纖維線時的跳針	<ol style="list-style-type: none"> <li>1. 降低轉速</li> <li>2. 使用矽油</li> </ol>
3	線跡不良	<ol style="list-style-type: none"> <li>1. 面線張力太弱</li> <li>2. 底線張力太弱</li> <li>3. 縫線太粗</li> <li>4. 中間導線鉤的位置不夠正確</li> </ol>	<ol style="list-style-type: none"> <li>1. 旋緊面線夾線螺母</li> <li>2. 旋緊底線夾線螺母</li> <li>3. 調換大號機針</li> <li>4. 調整中間導線鉤的位置</li> </ol>

		5. 挑線桿線量調節板位置不正確 6. 針板	5. 調整線量調節板的位置 6. 使用針孔大的針板
4	斷針	1. 機針彎 2. 送料和機針不同步 3. 壓腳的安裝有問題 4. 保針架有問題 5. 面線張力過強 6. 機針太粗	1. 調換機針 2. 調整到同步 3. 壓腳孔、針板孔的中心與機針中心要一致 4. 檢查保針架的位置與同步 5. 放鬆面線張力 6. 使用合適的機針
5	起皺	1. 縫線張力過強 2. 底線打線凸輪不同步 3. 各過線處光潔度有問題 4. 壓腳壓力太強	1. 降低縫線張力,特別是底線的張力 2. 進行調節,使其同步 3. 研磨各過線部分 4. 旋鬆調壓螺釘

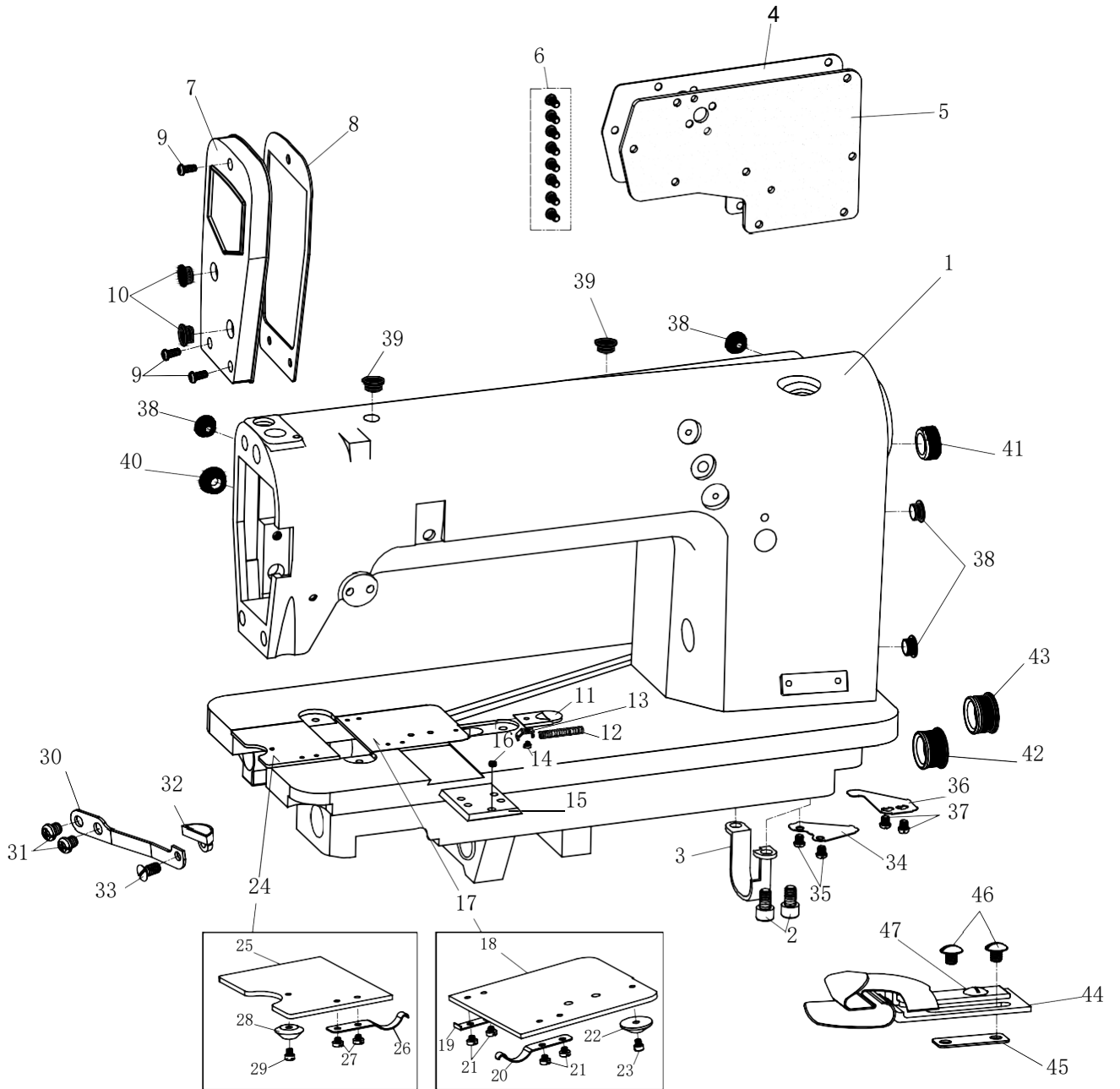
## 28、Common breakdowns and measures of trouble shooting :

No.	Breakdown	cause	measures to be laken
1	Thread breakage	1. Poor thread quality 2. Thread being too thick 3. Fusing thread due to high temperature of needle caused by machine's operation at high speed 4. Tension being too higher 5. Breakage of needle, looper, throat plate, and needle guard at the location of thread guide 6. Failure to adjust thread amount	1. Quality thread to be used. 2. Replacment to be made by an appropriate thread 3. Silicone oil to be used and speed to bereduced 4. The tension nut to be loosened 5. First grinding with oil stone and then polishing 6. adjusting the thread amount adjusting plate
2	skipping stitch	1. skipping stitch of needle thread ( leaking of two stitches due to the looper's failure to hook the needle thread) 2. Skipping stitch of bobbin thread ( leaking of onestitch, needle's failure to enter the looper eyelet)	1. adjusting thread-hooking amount of looper 2. adjusting clearance between looper and needle 3. The timing of needle in reference to looper 4. adjusting the thread-amount adjusting plate on thread amount changing conditions. 5. adjusting the frame thread eyelet 6. checking whether the mounting postion of the needle is proper or not 7. To see if the location of needle guard is in an appropriate way and the timing of it is well regulated in relation to another 8. To see if the needle thread threading is in a proper way 1. Reference to the above cases 1 and 2, as to skipping stitch of the needle thread.

			<ol style="list-style-type: none"> <li>2. To see if the timing of bobbin thread cam has been well regulated.</li> <li>3. Increasing tension of bobbin thread a bit higher</li> <li>4. To see if the threading of bobbin thread is in a correct way</li> </ol>
		3. Skipping stitch when thread of chemical fibre being in use	<ol style="list-style-type: none"> <li>1. Using silicone oil</li> <li>2. Reducing speed</li> <li>3. Using needle for thread of chemical fibre</li> </ol>
		4. Skipping stitch when thread of polyester fibre being in use	<ol style="list-style-type: none"> <li>1. Reducing speed</li> <li>2. Silicone oil to be used</li> </ol>
3	Twisted stitches	<ol style="list-style-type: none"> <li>1. needle thread tension being too low.</li> <li>2. Bobbin thread tension being too low</li> <li>3. Sewing thread being too thick</li> <li>4. Improper position of the frame thread eyelet</li> <li>5. Improper position of thread take-up tension plate</li> <li>6. Throat plate</li> </ol>	<ol style="list-style-type: none"> <li>1. Tightening tension nut of needle thread.</li> <li>2. Tightening tension nut of bobbin thread</li> <li>3. needle of large size to be used</li> <li>4. Readjusting it to a proper position</li> <li>5. Readjusting its position in an appropriate way</li> <li>6. The eyelet of throat plate to be used being bigger than normal one</li> </ol>
4	Breakage of needle	<ol style="list-style-type: none"> <li>1. needle being bent.</li> <li>2. The operation of feed dog being not well regulated in reference to the motion of needle</li> <li>3. Setting-up of the presser foot</li> <li>4. The problem of the timing of needle guard remaining unsolved</li> <li>5. needle thread tension being too high</li> <li>6. needle being too thick</li> </ol>	<ol style="list-style-type: none"> <li>1. needle to be replaced by another of proper size</li> <li>2. Readjusting the timing to feed dog in respect to the needle</li> <li>3. To make both the centre of the hole of the presser foot and the centre of the eyelet of the throat plate be in line with that of the eye of the needle.</li> <li>4. The positioning &amp; the timing of the needle guard to be taken into account</li> <li>5. Relaxing needle thread</li> <li>6. appropriate needle to be used</li> </ol>
5	Puckering	<ol style="list-style-type: none"> <li>1. Thread tension being too high</li> <li>2. The problem of the timing of the bobbin thread cam for thread guiding failing to be solved</li> <li>3. The problem of surface finish arising from bobbin thread going through the parts on the thread guide.</li> </ol>	<ol style="list-style-type: none"> <li>1. Decreasing thread tension, esp. tension of bobbin thread.</li> <li>2. Readjusting of the very cam said to solve the timing problem</li> <li>3. Surface finishing all the parts on the thread guide</li> </ol>
		4. The force on the presser foot being too great	4. Turning counter-clockwise the pressure-regulating screw.

DL3880  
零件樣本  
Parts Books

# 1. 機殼分組件

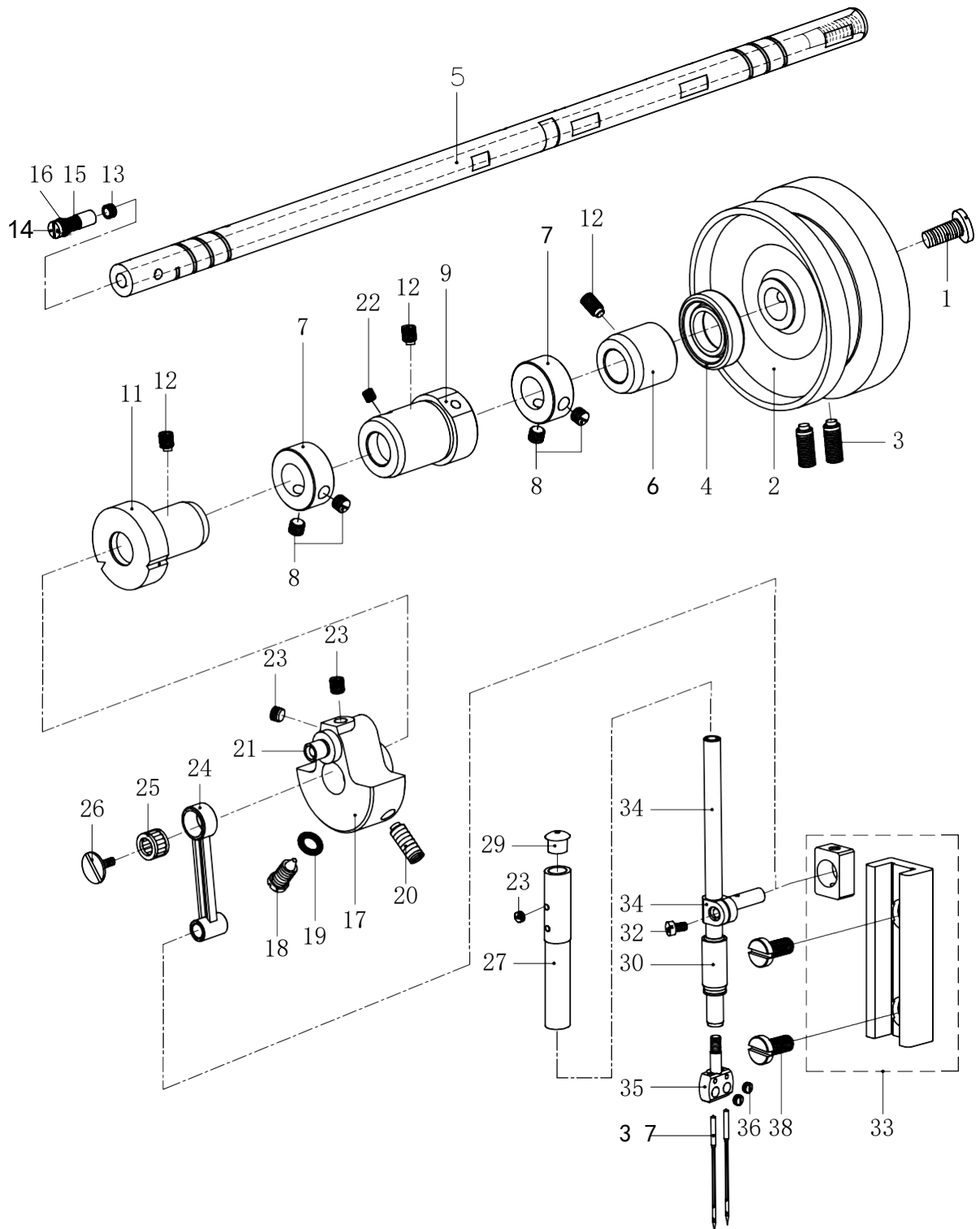


## 1. 機殼分組件

## 1.Arm bed components

序號	件號	名稱	Description	數量
Ref.No.	Part.No			Amt.Req.
1	GQ202/13	機殼部件 .....	Arm bed complete .....	1
2	GS0127	底板支承螺釘 .....	Bed screw stud .....	2
3	GR1823	底板支承板 .....	Bed support .....	1
4	GK186	後窗板 .....	Side plate .....	1
5	GR1812	後窗板墊 .....	Gasket .....	1
6	GS100	後窗板螺釘 .....	Screw .....	8
7	GR1455/2	面板部件 .....	Face plate asm. ....	1
8	GR1457	面板墊 .....	Face plate gasket .....	1
9	GS100	面板螺釘 .....	Screw .....	3
10	GR1458	面板調節螺孔塞 .....	Rubber plug .....	2
11	GR1813	凸輪蓋壓板 .....	Cam cover latch .....	1
12	GW287	凸輪蓋壓板彈簧 .....	Spring .....	1
13	GR1814	凸輪蓋壓板彈簧座 .....	Spring suspension .....	1
14	GS069	凸輪蓋壓板座螺釘 .....	Screw .....	1
15	GM241	附件安裝板 .....	Attachment installing plate .....	1
16	GS012	附件安裝板定位螺釘 .....	Screw .....	1
17	GM242/9	凸輪蓋部件 .....	Cam cover asm .....	(1)
18	GM243	凸輪蓋(中厚料) .....	Cam cover (Medium weight fabric) .....	1
	GM243-S	凸輪蓋(厚料) .....	Cam cover (Heavy weight fabric) .....	1
19	GW289	凸輪蓋托板 .....	Cam cover .....	1
20	GW290	凸輪蓋彈簧 .....	Spring .....	1
21	GS045	凸輪蓋彈簧螺釘 .....	Screw .....	4
22	GR1815	凸輪蓋導輪 .....	Cam cover guide .....	1
23	GS0129	凸輪蓋導輪螺釘 .....	Screw .....	1
24	GM244/6	推板部件 .....	Bed slide asm. ....	(1)
25	GM245	推板 .....	Bed slide .....	1
26	GW291	推板簧 .....	Spring .....	1
27	GS045	推板簧螺釘 .....	Screw .....	2
28	GR1816	推板導輪 .....	Bed slide guide .....	1
29	GS0129	推板導輪螺釘 .....	Screw .....	1
30	GW292	推板鎖簧 .....	Bed slide lock spring .....	1
31	GS010	推板鎖簧螺釘 .....	Screw .....	2
32	GR1817	推板簧把手 .....	Latch .....	1
33	GS44	推板簧把手螺釘 .....	Screw .....	1
34	GR1818	送料軸底板擋油板 .....	Bed oil shield .....	1
35	GS010	底板擋油板螺釘 .....	Screw .....	2
36	GR1819	抬牙軸底板擋油板 .....	Bed oil shield .....	1
37	GS010	底板擋油板螺釘 .....	Screw .....	2
38	GR1461	軸套定位螺孔塞 .....	Rubber plug .....	4
39	GR1462	上軸套油孔線塞 .....	Rubber plug .....	2
40	GR1463	針桿曲柄螺孔塞 .....	Rubber plug .....	1
41	GR1464	送料針距調節器孔塞 .....	Rubber plug .....	1
42	GR1465	抬牙軸孔塞 .....	Rubber plug .....	1
43	GR1466	下軸盲孔塞 .....	Rubber plug .....	1
44	GR1916/5	捲邊器部件(1/4") .....	Folder .....	1
45	GR1923	捲邊器墊塊 .....	Gasket .....	1
46	GS0148	捲邊器螺釘 .....	Screw .....	2
47	GS0147	捲邊器定位螺釘 .....	Screw .....	1

## 2. . 上軸針桿分組件



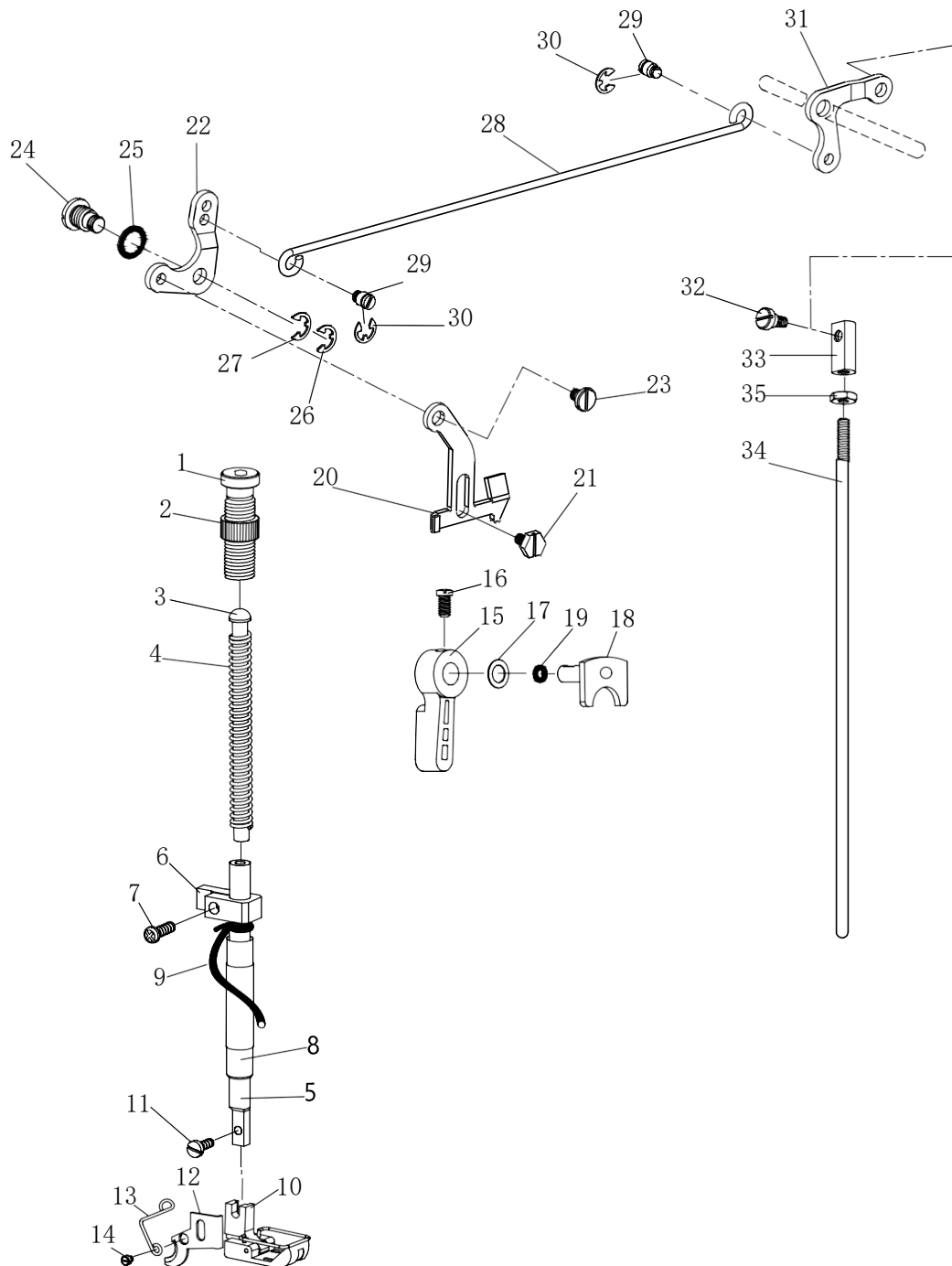
## 2. 上軸針桿分組件

## 2.Main shaft & Needle bar components

序號 Ref.No.	件號 Part.No	名稱	Description	數量 Amt.Req.
1	GS02	上軸安全螺釘 .....	End screw .....	1
2	GP132	上輪 .....	Hand wheel .....	1
3	GS03	上輪螺釘 .....	Screw .....	2
4	GR1468/2	上輪油封 .....	Oil seal .....	1
5	GZ303	上軸 .....	Main'shaft .....	1
6	GO262/2	上軸後軸套部件 .....	Main'shaft bushing, rear .....	1
7	GR1824	上軸擋圈 .....	Main shaft thrust collar .....	2
8	GS033	上軸擋圈螺釘 .....	Screw .....	4
9	GO265	上軸中軸套部件 .....	Main shaft bushing intermediate .....	1
10	GS48(GS05)	中軸套螺釘 .....	Screw .....	1
11	GO303/2	上軸前軸套部件 .....	Main shaft bushing, front .....	1
12	GS04	軸套螺釘 .....	Screw .....	2
13	GR1470	曲柄油量限制氈 .....	Roller felt .....	1
14	GX334	曲柄油量調節銷 .....	Crank oil adjusting pin .....	1
15	GO269	曲柄油量調節銷套 .....	Rubber bushing .....	1
16	GR1471	曲柄油量調節銷O形圈 .....	O-Rubber ring .....	1
17	GH378	針桿曲柄(中厚料) .....	Counterweight asm.(Medium weight fabric) .....	1
	GH378-H	針桿曲柄(厚料) .....	Counterweight asm.(Heavy weight fabric) .....	1
18	GS06	針桿曲柄定位螺釘 .....	Screw .....	1
19	GR1472	定位螺釘O形圈 .....	O-Rubber ring .....	1
20	GS07	針桿曲柄緊固螺釘 .....	Screw .....	1
21	GH379	針桿連桿銷 .....	Needle crank .....	1
22	GS48	挑線曲柄定位螺釘 .....	Screw .....	1
23	GS041	挑線曲柄螺釘 .....	Screw .....	1
24	GH334	針桿連桿 .....	Needle bar crank rod .....	1
25	GO270	針桿連桿滾針軸承 .....	Needle roller bearing .....	1
26	GS09	針桿連桿左旋螺釘 .....	Left twist screw .....	1
27	GO271	針桿上襯套 .....	Needle bar bushing upper .....	1
28	GS012	針桿上襯套螺釘 .....	Screw .....	1
29	GR1479	針桿上襯套孔塞 .....	Rubber plug .....	1
30	GO288	針桿下襯套 .....	Needle bar bushing, lower .....	1
31	GR1478	針桿連接柱 .....	Needle bar connection asm. ....	1
32	GS011	針桿連接柱螺釘 .....	Screw .....	1
33	GU168	針桿連接柱滑塊 .....	Crank slide block .....	1
34	GZ304	針桿 .....	Needle bar .....	1
35	GR1826	針夾 ( 1 / 4 " ) .....	Needle clamp .....	1
36	GS0130	支針螺釘 .....	Screw .....	2
37	GV18	機針14/90 (中厚料) .....	Needle 14/90 (Medium weight fabric) .....	2
	GV18-20/125	機針20/125 (厚料) .....	Needle 20/125 (Heavy weight fabric) .....	2



### 3. . 壓桿分組件

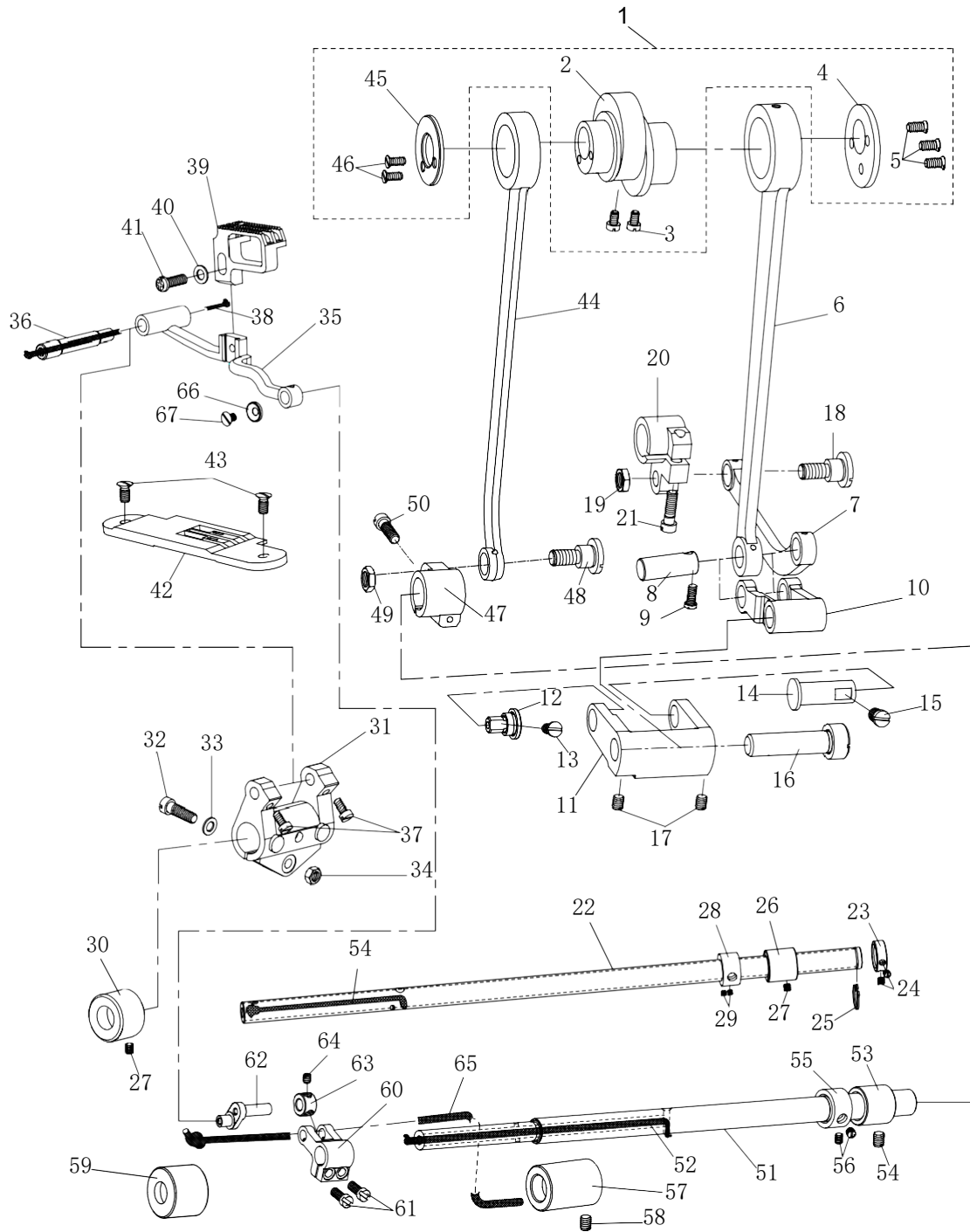


## 3. 壓料分組件

## 3.Presser bar components

序號	件號	名稱	Description	數量
Ref.No.	Part.No			Amt.Req.
1	GS0553	調壓螺釘	Presser spring rugulator	1
2	GL0114	調壓螺釘螺母	Nut	1
3	GR1494	調壓導桿	Presser bar guide bar	1
4	GW253	調壓簧	Presser spring	1
5	GZ305	壓桿	Presser bar	1
6	GR1827	壓桿導架	Presser bar guide bracket asm	1
7	GS019	壓桿導架螺釘	Screw	1
8	GO273	壓桿襯套	Presser bar bushing,lower	1
9	GR1525	壓桿油線	Oil wick	1
10	GM246/5	壓腳部件1/4"(中厚料)	Presser foot asm.(Medium weight fabric)	1
	GM246-H	壓腳部件1/4"(厚料)	Presser foot asm.(Heavy weight fabric)	1
11	GS020	壓腳螺釘	Screw	1
12	GR1832	切線刀	Thread knife	1
13	GR1833	切線刀導鉤	Thread knife guide	1
14	GS0129	切線刀導鉤螺釘	Screw	1
15	GR1499	壓腳扳手	Hand lifter	1
16	GS021	壓腳扳手螺釘	Screw	1
17	GR1500	壓腳扳手墊圈	Washer	1
18	GR1501/2	壓腳扳手凸輪部件	Hand lifter cam asm.	1
19	GR1503	壓腳扳手軸O型圈	Rubber ring	1
20	GR1504	壓腳升降板	Lifting lever	1
21	GS022	升降板軸位螺釘	Hinge Screw	1
22	GR1505	抬壓腳前杠桿	Lifting link for lifting lever	1
23	GS023	前杠桿軸位螺釘	Hinge Screw	1
24	GS024	前杠桿螺紋銷	Hinge pin	1
25	GR1506	前杠桿螺紋銷墊圈	Lifting lever gasket	1
26	GR1508	前杠桿特製開口擋圈	Snap ring	1
27	GR1507	前杠桿開口擋圈	Snap ring	1
28	GR1834	抬壓腳拉桿	Lifting lever connecting rod	1
29	GS025	抬壓腳拉桿螺釘	Screw	2
30	GR1510	抬壓腳拉桿開口擋圈	Snap ring	2
31	GR1835	抬壓腳後杠桿	Lifting lever link rear	1
32	GS0131	後杠桿軸位螺釘	Hinge Screw	1
33	GR1836	抬壓腳頂桿接頭	Swivel	1
34	GX378	抬壓腳頂桿	lifting lever connecting rod,vertical	1
35	GL19	抬壓腳頂桿螺母	Nut	1

# 4. 送料分組件

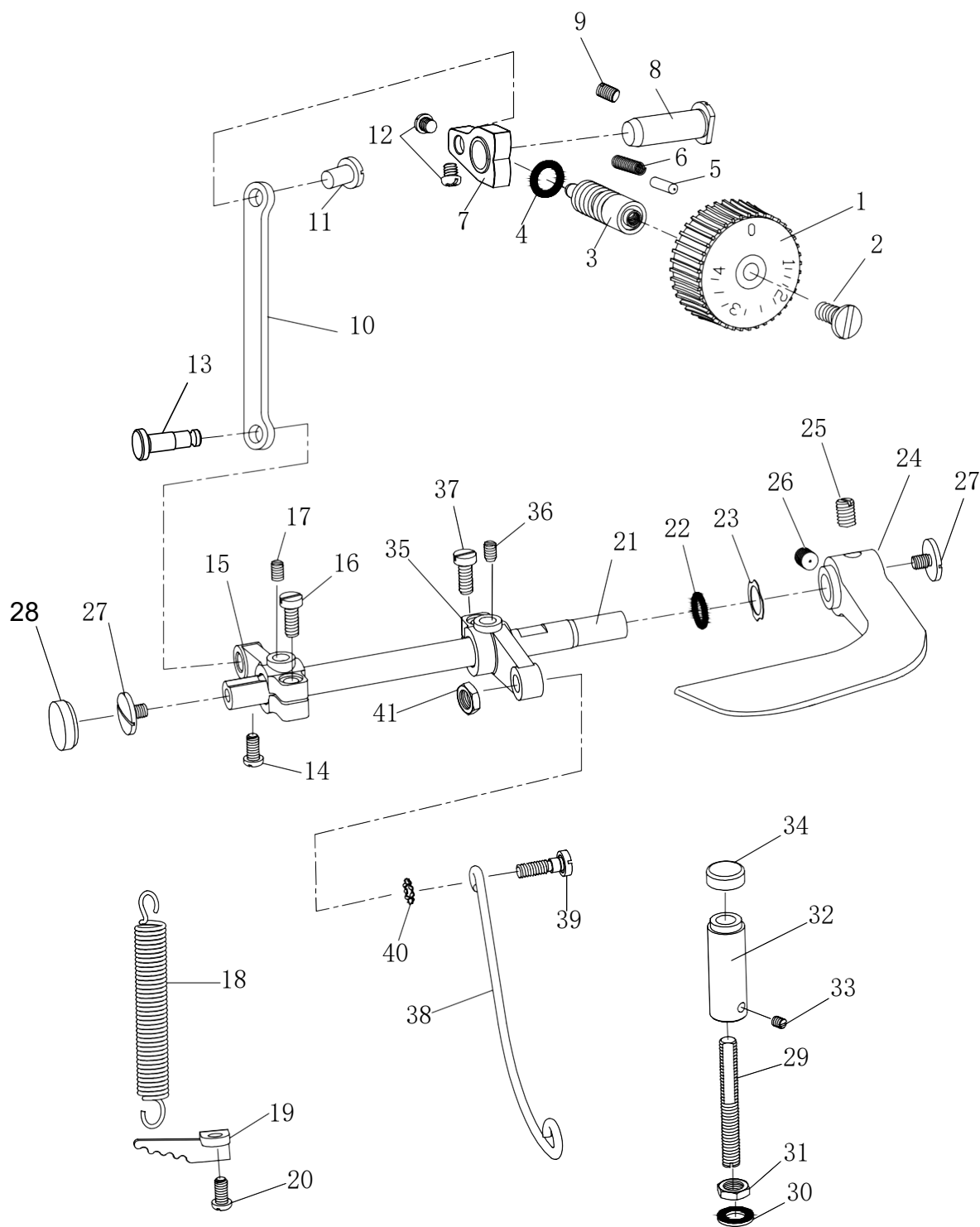


## 4. 送料分組件

## 4.Feed mechanism components

序號 Ref.No.	件號 Part.No	名 稱	Description	數 量 Amt.Req.
1	GT160/10	送料偏心輪部件	Feed eccentric cam asm.	1
2	GT161	送料偏心輪	Feed eccentric cam	2
3	GS034	送料偏心輪螺釘	Screw	1
4	GR1521	送料偏心輪蓋板	Feed eccentric thrust washer	3
5	GS035	偏心輪蓋板螺釘	Screw	1
6	GH335	送料大連桿	Feed rocker shaft connecting rod	1
7	GH380	送料小連桿	Connecting rod	1
8	GX340	送料連桿銷	Connecting pin	1
9	GS036	送料連桿銷螺釘	Screw	1
10	GR1522	送料擺桿	Feed driving rocket arm	1
11	GR1523	送料擺桿座	Feed driving rocket	1
12	GX341	送料擺桿座左銷	Hingd stud	1
13	GS037	送料擺桿座左銷螺釘	Screw	1
14	GX342	送料擺桿座右銷	Hinge pin	1
15	GS05	送料擺桿座右銷螺釘	Screw	1
16	GZ279	送料擺桿銷	Hinge pin	1
17	GS038	送料擺桿銷螺釘	Screw	2
18	GS039	送料曲柄軸位螺釘	Hinge screw	1
19	GL7	送料曲柄軸位螺母	Nut	1
20	GH337	送料曲柄	Feed rocker shaft crank	1
21	GS040	送料曲柄螺釘	Screw	1
22	GZ280	送料軸	Feed rocker shaft	1
23	GR1890	送料軸薄擋圈	Thrust collar	1
24	GS032	送料軸薄擋圈螺釘	Screw	1
25	GR1524	送料軸軸用擋圈	Retaining ring	2
26	GO285	送料軸軸後套	Bushing rear	1
27	GS41	送料軸軸後套螺釘	Screw	2
28	GR1469	送料軸擋圈	Thrust collar	1
29	GS39	送料軸擋圈螺釘	Screw	2
30	GO286	送料軸前軸套	Feed rocker shaft bushing,front	1
31	GR1838	牙架座	Feed rocker	1
32	GS040	牙架座螺釘	Screw	1
33	GR1528	牙架座螺釘墊圈	Washer	1
34	GL20	牙架座螺母	Nut	1
35	GR1839	牙架	Feed bar	1
36	GX379	牙架銷	Feed bar shaft	1
37	GS042	牙架銷螺釘	Screw	2
38	GR1837	牙架銷油線	Oil wick	1
39	GM247	送料牙1/4" (中厚料)	Feed dog 1/4" (Medium weight fabric)	1
	GM247-H	送料牙1/4" (厚料)	Feed dog 1/4" (Heavy weight fabric)	1
40	GR1528	送料牙墊圈	Washer	1
41	GS019	送料牙螺釘	Screw	1
42	GM248	針板1/4" (中厚料)	Throat plate (Medium weight fabric)	1
	GM248-H	針板1/4" (厚料)	Throat plate (Heavy weight fabric)	1
43	GS044	針板螺釘	Screw	2
44	GH381	抬牙連桿	Feed driving shaft connecting rod	1
45	GR1840	抬牙凸輪蓋	Feed driving eccentric thrust washer	1
46	GS0115	抬牙凸輪蓋螺釘	Screw	2
47	GH397	抬牙後曲柄	Feed driving shaft crank rear	1
48	GS039	抬牙連桿軸位螺釘	Hinge screw	1
49	GL7	抬牙連桿軸位螺母	Nut	1
50	GS040	抬牙後曲柄緊固螺釘	Screw	1
51	GZ306	抬牙軸	Feed driving shaft	1
52	GR1837	抬牙軸送料軸油線	Oil wick	2
53	GO285	抬牙軸後軸套	Bushing rear	1
54	GS48	抬牙軸後軸套螺釘	Screw	1
55	GR1469	抬牙軸後軸套擋圈	Thrust collar	1
56	GS39	後軸套擋圈螺釘	Screw	2
57	GO300	抬牙軸中軸套	Bushing,intermediate	1
58	GS04	抬牙軸中軸套螺釘	Screw	1
59	GO306	抬牙軸前軸套	Feed rocker shaft bushing,front	1
60	GH382	抬牙前曲柄	Feed rocker shaft crank	1
61	GS0132	抬牙前曲柄螺釘	Screw	2
62	GH383	牙架連桿	Feed bar link	1
63	GR1841	牙架連桿擋圈	Thrust collar	1
64	GS013	牙架連桿擋圈螺釘	Screw	1
65	GR1837	牙架連桿油線	Oil wick	1
66	GR1842	牙架連桿錐孔墊圈	Counter-sunk washer	1
67	GS0133	牙架連桿墊圈螺釘	Screw	1

# 5. 送料調節器分組件

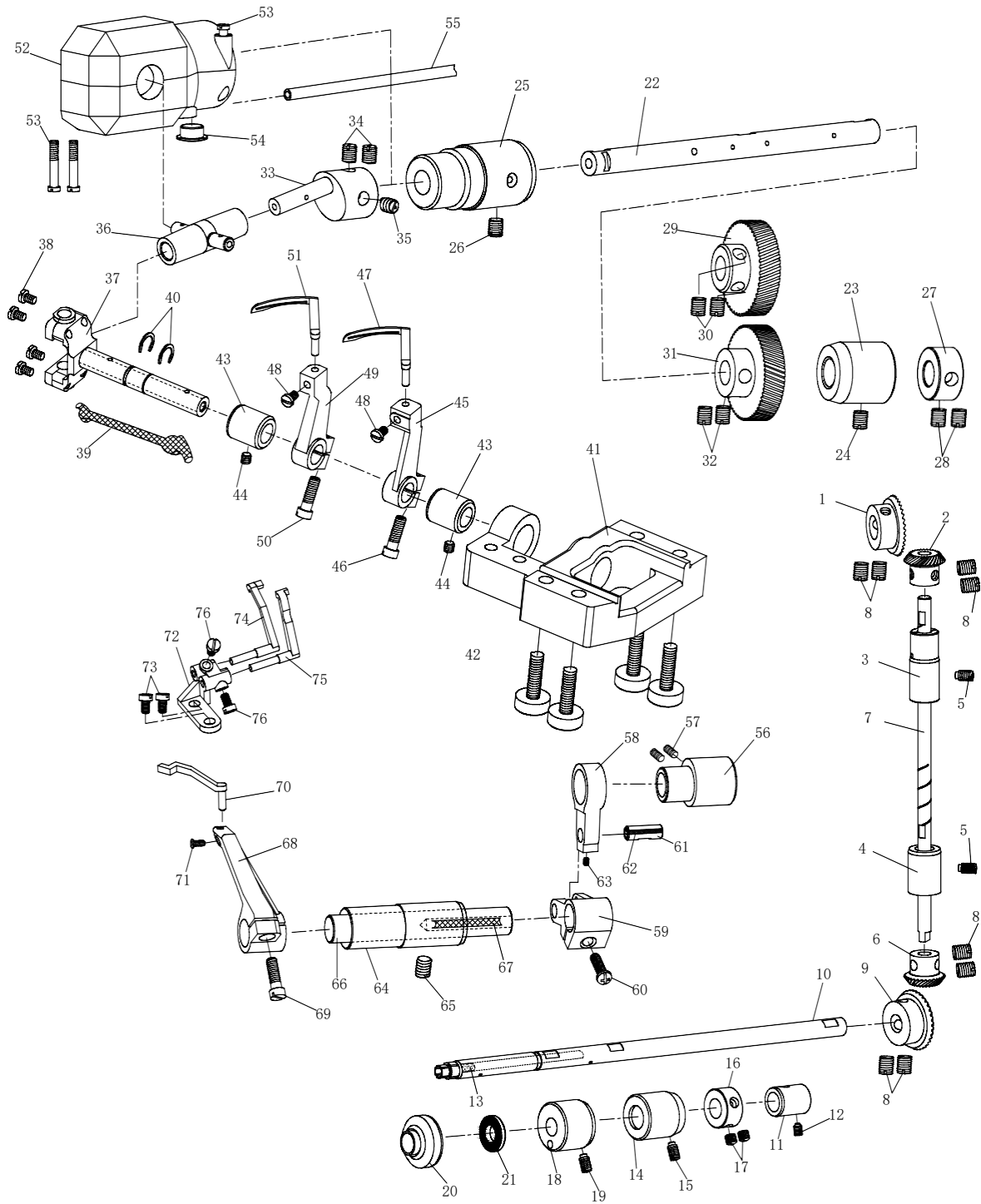


## 5.送料調節器分組件

## 5.Feed regulating components

序號	件號	名稱	Description	數量
Ref.No	Part.No			Amt.Req.
1	GR1537G	送料距旋鈕部件 .....	Stitch dial asm .....	1
2	GS0563	送料距旋鈕螺釘 .....	Screw .....	1
3	GS047	送料調節螺柱 .....	Feed regulating screw .....	1
4	GR1538	送料調節螺柱O型圈 .....	O-Rubber ring .....	1
5	GX345	送料距鎖合銷 .....	Stitch dial lock pin .....	1
6	GW257	送料距縮合銷簧 .....	Stitch dial lock spring .....	1
7	GR1843	送料調節器 .....	Feed regulator .....	1
8	GX346	送料調節器銷 .....	Hinge pin .....	1
9	GS48	送料調節器銷螺釘 .....	Screw .....	1
10	GH341	送料調節器連桿 .....	Feed regulator connecting rod .....	1
11	GR1540G	調節器連桿軸 .....	Hinge pin .....	1
12	GS010	調節器連桿軸位螺釘 .....	Nut .....	1
13	GR1540	拉簧調節曲柄銷 .....	Tension spring suspension stud .....	1
14	GS100	拉簧調節曲柄銷螺釘 .....	Screw .....	1
15	GH342	拉簧調節曲柄 .....	Tension spring suspension crank .....	1
16	GS049	調節曲柄緊固螺釘 .....	Suspension bracket .....	1
17	GS48	調節曲柄定位螺釘 .....	Screw .....	1
18	GW258	倒送料軸拉簧 .....	Tension spring .....	1
19	GR1547	拉簧固定板 .....	Suspension bracket .....	1
20	GS01	拉簧固定板螺釘 .....	Screw .....	1
21	GZ282	倒送料軸 .....	Reverse feed control lever shaft .....	1
22	GR1542	倒送料軸O型圈 .....	Rubber ring,large .....	1
23	GR1543	倒送料軸彈性墊圈 .....	Waved Washer .....	1
24	GR1544	倒送料扳手 .....	Reverse feed control lever .....	2
25	GS050	倒送料扳手定位螺釘 .....	Screw .....	1
26	GS033	倒送料扳手螺釘 .....	Screw .....	1
27	GS051	倒送料軸端螺釘 .....	End Screw .....	1
28	GR1545	倒送料軸端孔塞 .....	Rubber plug .....	1
29	GS0134	倒送料擋塊螺桿 .....	Screw .....	1
30	GR1599	擋塊螺桿墊圈 .....	Washer .....	1
31	GL21	擋塊螺桿螺母 .....	Nut .....	1
32	GR1844	倒送料擋塊 .....	Lever stopper .....	1
33	GS0135	倒送料擋塊螺釘 .....	Screw .....	1
34	GR1845	倒送料擋塊橡膠墊 .....	Rubber cushion .....	1
35	GH344	倒送料曲柄 .....	Control lever crank,rear .....	1
36	GS48	到送料曲柄定位螺釘 .....	Screw .....	1
37	GS049	倒送料曲柄螺釘 .....	Screw .....	1
38	GH345	倒送料連桿 .....	Feed driving rocker arm connecting .....	1
39	GS052	倒送料連桿軸位螺釘 .....	Screw .....	1
40	GR1546	倒送料連桿彈簧墊圈 .....	Washer .....	1
41	GL20	倒送料連桿軸位螺母 .....	Nut .....	1

## 6. 彎針勾線分組件



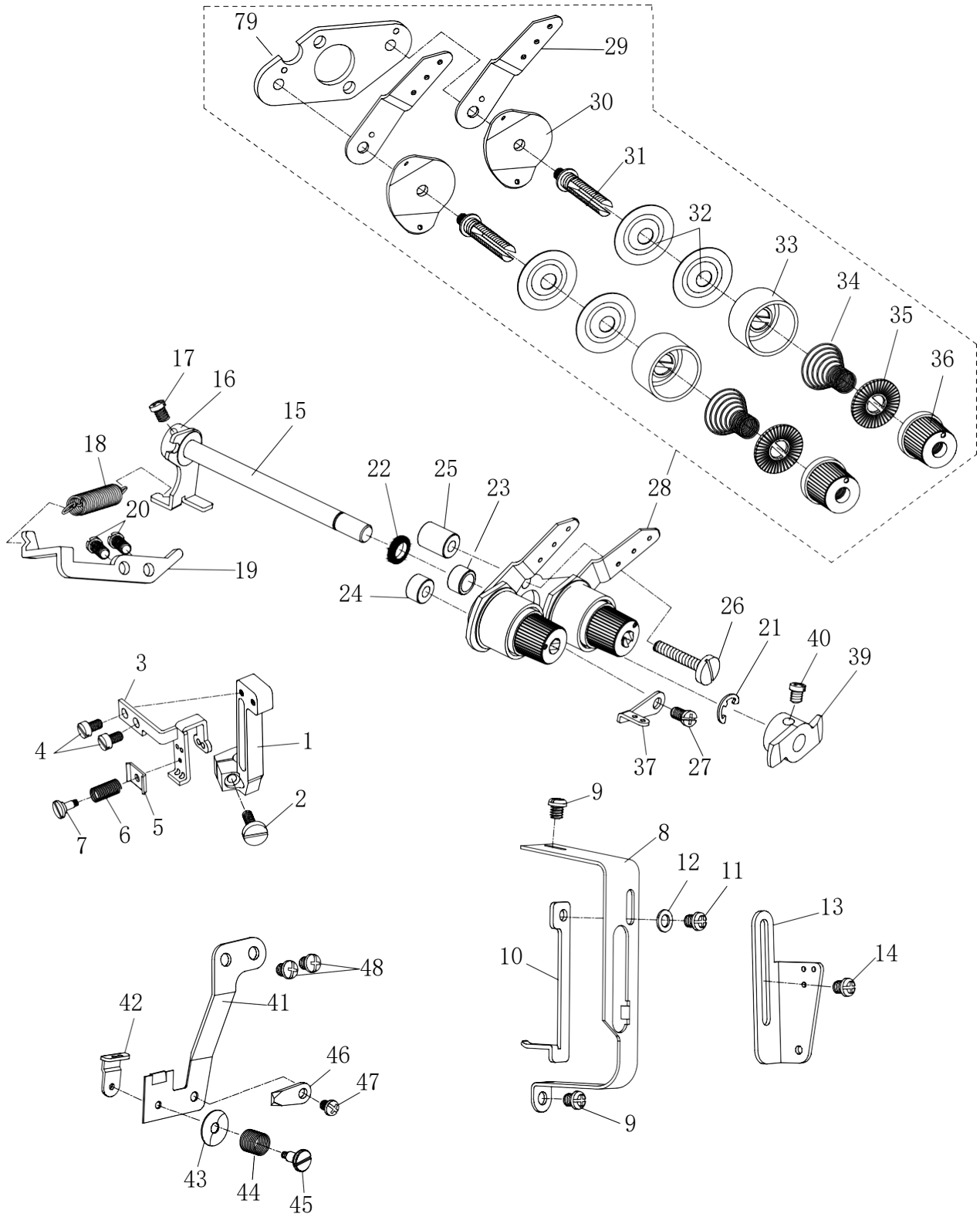
## 6. 彎針勾線分組件

## 6. Looper thread retainer components

序號 Ref.No.	件號 Part.No	名稱	Description	數量 Amt.Req.
1	GC168	上軸傘齒輪	Gear asm	1
2	GC167	豎軸上傘齒輪	Pinion asm	1
3	GO283	豎軸上軸套	Bushing,upper	1
4	GO280/2	豎軸下軸套部件	Bushing,lower	1
5	GS04	豎軸軸套螺釘	Screw	2
6	GC167	豎軸下傘齒輪	Gear asm	1
7	GZ307	豎軸	Upright shaft	1
8	GS033	傘齒輪螺釘	Bushing,front asm.screw	8
9	GC169	下軸傘齒輪	Gear asm	1
10	GZ308	下軸	Lower shaft asm.	1
11	GO307	下軸後軸套	Bushing.rear	1
12	GS04	下軸後軸套螺釘	Screw	1
13	GR1847	下軸油孔孔塞	Felt	1
14	GO308/2	下軸中軸套部件	Bushing.intermediate	1
15	GS04	下軸中軸套螺釘	Screw	1
16	GR1848	下軸擋圈	Thrust collar asm	1
17	GS033	下軸擋圈螺釘	Screw	2
18	GO311/2	下軸前軸套部件	Bushing,front	1
19	GS04	下軸前軸套螺釘	Screw	1
20	GR1849	下軸前軸套油封套	Looper thread guard bushing	1
21	GR1850	下軸前軸套油封	Oil seal	1
22	GZ309	彎針軸	Looper rocker shaft	1
23	GO308/2	彎針軸後軸套部件	Bushing,front	1
24	GS04	彎針軸後軸套螺釘	Screw	1
25	GO314/2	彎針軸前軸套部件	Looper thread guard bushing	1
26	GS48	彎針軸前軸套螺釘	Screw	1
27	GR1848	彎針軸擋圈	Thrust collar asm	1
28	GS033	彎針軸擋圈螺釘	Screw	2
29	GC170	主動彎針齒輪	Gear asm,upper	1
30	GS033	主動彎針齒輪螺釘	Screw	2
31	GC171	被動彎針齒輪	Gear asm,lower	1
32	GS033	被動彎針齒輪螺釘	Screw	2
33	GH384	彎針曲柄	Looper crank asm.	1
34	GS033	彎針曲柄螺釘	Screw	2
35	GS0136	彎針曲柄調節螺釘	Loopercrank adjusting screw	1
36	GR1851/5	彎針十字接頭部件	Trunnion asm.	1
37	GZ310/3	彎針擺軸部件	Looperrocker shaft asm	1
38	GS0100	彎針擺軸蓋螺釘	Screw	4
39	GR1533	彎針擺軸油線	Oil wick	1
40	GR1854	彎針擺軸擋圈	Snap ring	2
41	GR1855	彎針架座	Looper mounting base	1
42	GS0137	彎針架座螺釘	Screw	4
43	GO318	彎針擺軸軸套	Bushing,rear	2
44	GS032	彎針擺軸軸套螺釘	Screw	2
45	GH385	左彎針曲柄	Looper holder asm.(LEFT)	1
46	GS040	左彎針曲柄螺釘	Screw	1
47	GN169	左彎針	Looper(LEET)	1
48	GS0138	彎針螺釘	Screw	2
49	GH386	右彎針曲柄	Looper holder asm.(RIGHT)	1
50	GS040	右彎針曲柄螺釘	Screw	1
51	GN170	右彎針	Looper(RIGHT)	1
52	GK187/7	彎針曲柄罩殼部件	Crank cover asm	1
53	GS0139	曲柄罩殼螺釘	Screw	3
54	GR1462	曲柄罩殼孔塞	Rubber plug	1
55	GR1856	曲柄罩殼排油管	Vinyl tube	1
56	GT162	護針凸輪	Needle guard crank rod	1
57	GS48	護針凸輪螺釘	Screw	2
58	GH387	護針連桿	Needle guard crank rod	1
59	GH388	護針叉形曲柄	Rear needle guard rocker fork	1
60	GS019	護針叉形曲柄螺釘	Screw	1
61	GX380	護針曲柄銷	Pin	1
62	GR1837	護針曲柄銷油線	Oil wick	1
63	GS032	護針曲柄銷螺釘	Screw	1
64	GO319	護針軸套	Bushing	1
65	GS48	護針軸套螺釘	Screw	1
66	GZ312	護針軸	Needle guard driving shaft asm	1
67	GR1837	護針軸油線	Oil wick	1
68	GH389	護針曲柄	rear needle guard rocker arm asm	1
69	GS040	護針曲柄螺釘	Screw	1
70	GR1857	擺動護針桿(1/4)	Driving needle guard(1/4)	1
71	GS0100	擺動護針桿螺釘	Screw	1
72	GR1858	護針桿座	Needle guard base	1
73	GS0106	護針桿座螺釘	Screw	2
74	GR1859	左固定護針桿	Counter needle guard,left	1
75	GR1860	右固定護針桿	Counter needle guard,right	1
76	GS096	左固定護針桿螺釘	Screw	2



## 7. . 挑線、夾線、鬆線分組件

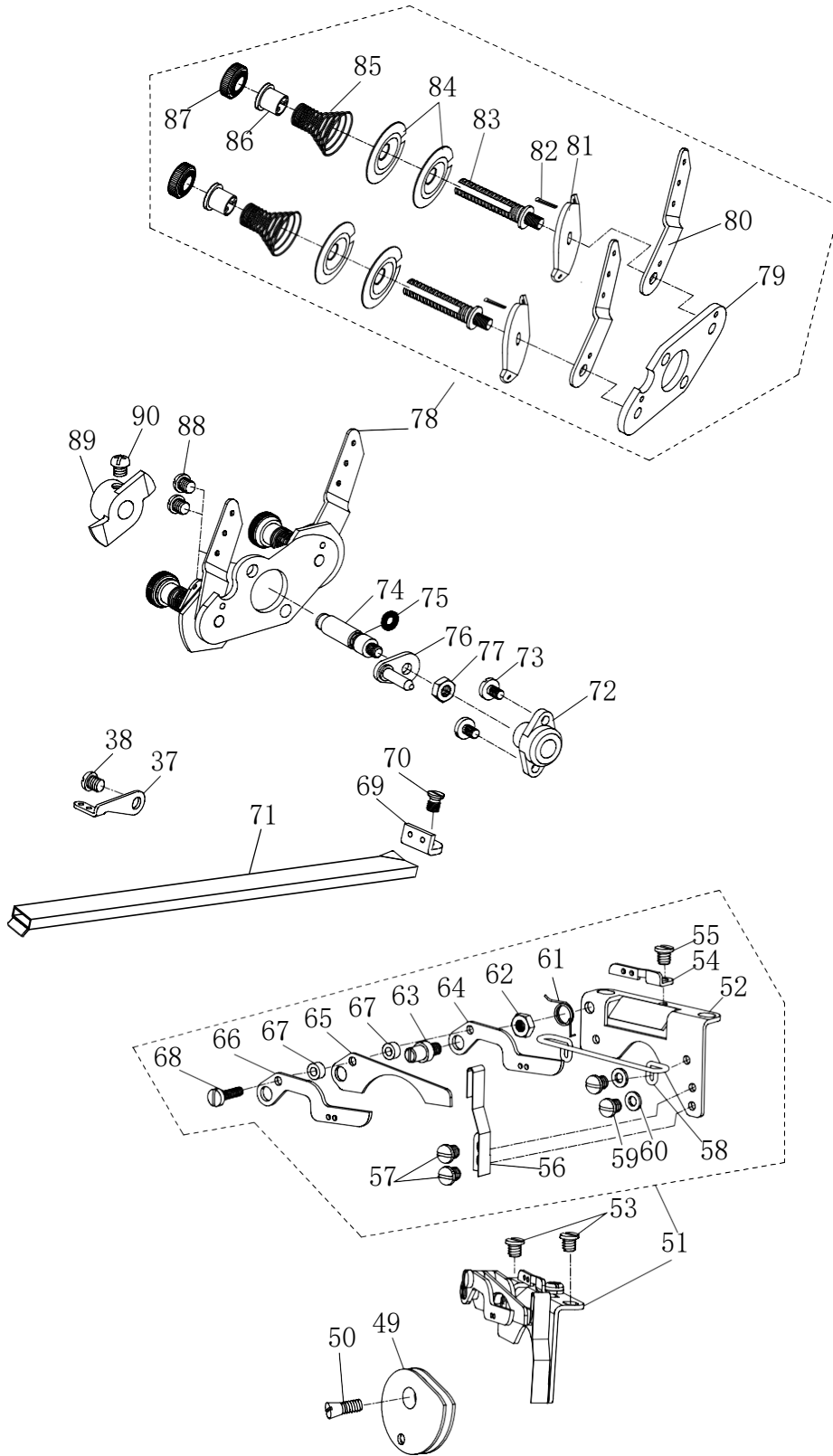


## 7.挑線、鬆線、夾線分組件

7.Thread take-up,tension,and  
tension releasing assembly complete

序 號 Ref.No.	件 號 Part.No	名 稱 Description	數 量 Amt.Req.
1	GH390	挑線連桿	1
2	GS0140	挑線連桿螺釘	1
3	GH392	挑線桿	1
4	GS011	挑線桿緊固螺釘	2
5	GR1861	挑線桿夾線板	1
6	GW294	挑線桿夾線簧	1
7	GS0141	挑線桿夾線板軸螺釘	1
8	GK190	挑線桿護罩	1
9	GS010	挑線桿護罩螺釘	1
10	GR1862	線量調節板	1
11	GS010	線量調節板螺釘	1
12	GR1528	調節板螺釘墊圈	1
13	GR1863	中間導線鉤	1
14	GS010	中間導線鉤螺釘	1
15	GZ313	鬆線軸	1
16	GH393/2	面線鬆線曲柄部件	1
17	GS082	面線鬆線曲柄螺釘	1
18	GW295	抬壓腳後杠桿彈簧	1
19	GR1865	後杠桿彈簧固定板	1
20	GS81	後杠桿彈簧固定板螺釘	2
21	GR1507	鬆線軸擋圈	1
22	GR1866	鬆線軸油封	1
23	GR1867	鬆線軸環	1
24	GR1868	夾線器下安裝墊	1
25	GE1869	夾線器上安裝墊	1
26	GS0142	夾線器上安裝墊螺釘	1
27	GS079	夾線器下安裝墊螺釘	1
28	GR1870/19	面線夾線器部件	(1)
29	GR1871	面線單面導線板	2
30	GR1872	面線雙面導線板	2
31	GS0143	夾線螺釘	2
32	GR1488	面線夾線板	4
33	GR1873	面線鬆線座	2
34	GW251	面線夾線簧	2
35	GR1490	面線止動板	2
36	GL34/2	面線夾線螺母部件	2
37	GR1875	導線鉤	2
38	GS010	導線鉤螺釘	1
39	GR1876	面線鬆線爪	1
40	GS082	面線鬆線爪螺釘	1
41	GR1907	過線板架	1
42	GR1908	過線板	1
43	GR1493	過線夾線板	1
44	GW299	過線夾線簧	1
45	GS0149	過線夾線螺釘	1
46	GR1986	鬆線板	1
47	GS043	鬆線板螺釘	1
48	GS010	過線板螺釘	2

# 7. 挑線、夾線、鬆線分組件

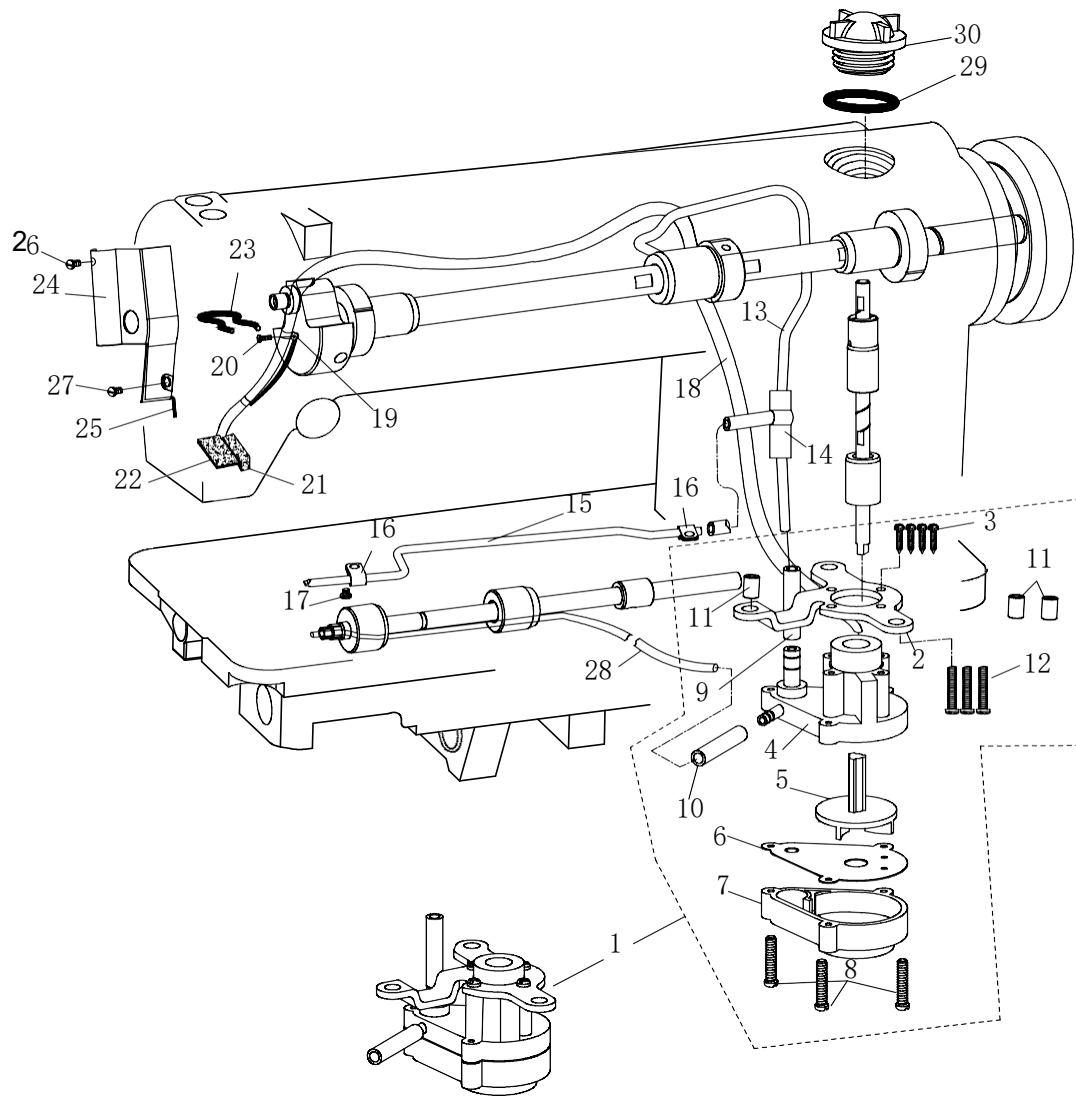


## 7. 挑線、鬆線、夾線分組件

7.Thread take-up,tension,and  
tension releasing assembly complete

序 號 Ref.No.	件 號 Part.No	名 稱	Description	數 量 Amt.Req.
49	GR1877	底線打線凸輪	Looper thread take-up cam	1
50	GS0144	底線打線凸輪定位螺釘	Screw	1
51	GR1878/20	凸輪導線鉤部件	looper thread guide asm.	1
52	GR1879	凸輪導線架	Thread guide plate	1
53	GS010	凸輪導線架螺釘	Screw	2
54	GR1880	底線雙線導線鉤	Looper thread guide	1
55	GS069	底線雙線導線鉤螺釘	Screw	1
56	GW296	底線導線止動簧	Thread guide stopper spring	1
57	GS069	底線導線止動簧螺釘	Screw	2
58	GR1881	底線脫線鋼絲	Cast-off wire	1
59	GS44	底線脫線鋼絲螺釘	Screw	2
60	GR1882	底線脫線鋼絲螺釘墊圈	Washer	2
61	GW297	底線導線簧	Thread guide stud	1
62	GL31	凸輪過線螺釘螺母	Nut	1
63	GS0145	凸輪過線螺釘	Thread guide stud	1
64	GR1883	凸輪導線鉤(右)	Looper thread guide,right	1
65	GR1884	凸輪脫線爪	Cast-off wire	1
66	GR1885	凸輪導線鉤(左)	Looper thread guide ,left	1
67	GR1886	凸輪導線環	Collar	2
68	GS065	凸輪導線鉤螺釘	Screw	1
69	GR1887	底線導線鉤	Looper thread guide	1
70	GS0146	底線導線鉤螺釘	Screw	1
71	GR1888	底線導線管	Looper thread guide tube	1
72	GR1889	鬆線軸套	Tension release shaft bushing	1
73	GS0150	鬆線軸套螺釘	Screw	2
74	GZ314	底線鬆線軸	Looper thread release shaft	1
75	GR1503	底線鬆線軸O型圈	Rubber ring	1
76	GH395/2	底線鬆線軸曲柄部件	Tension release arm asm	1
77	GL31	底線鬆線軸螺母	Nut	1
78	GR1891/19	底線夾線器部件	Lower thread tension asm.	1
79	GR1892	夾線器安裝板	Tension installing plate	(1)
80	GR1893	底線單面導線板	Looper thread tension control plate	2
81	GR1894	底線雙面導線板	Thread guide	2
82	GX382	底線夾線板止轉銷	Spring pin	2
83	GS04143	夾線螺釘	Looper thread tension post	2
84	GR1895	底線夾線板	Tension disc	4
85	GW298	底線夾線簧	Looper thread tension spring	2
86	GR1896	底線夾線止轉圈	Tension spring bushing	2
87	GL36	底線夾線螺母	Tension post nut	2
88	GS81	夾線器安裝板螺釘	Screw	2
89	GR1897	底線鬆線爪	Looper thread release latch	1
90	GS082	底線鬆線爪螺釘	Screw	1

# 8. 潤滑分組件

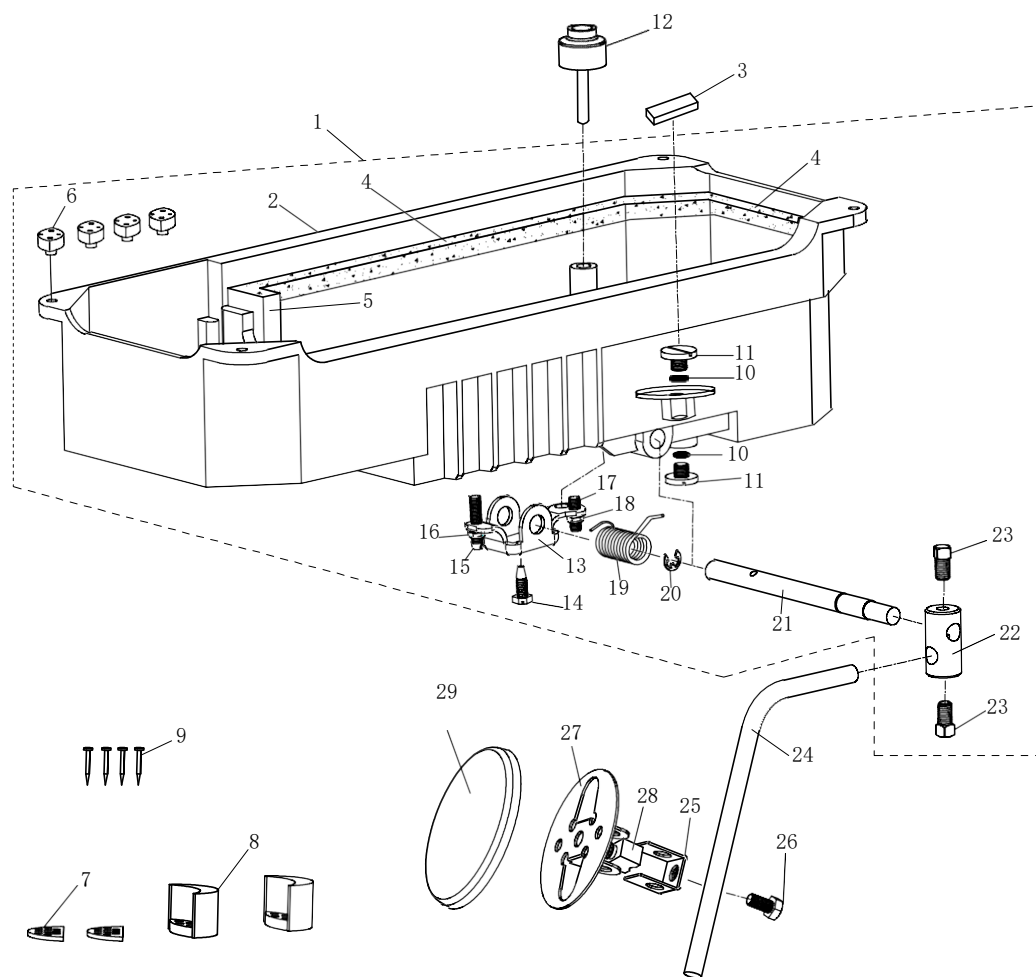


## 8. 潤滑分組件

## 8.Lubrication

序 號	件 號	名 稱	Description	數 量
Ref.No.	Part.No			Amt.Req
1	GR1899/21	油泵部件	Lubricating oil pump asm.	( 1 )
2	GR1549	油泵安裝板	Oil pump installing base	1
3	GS553	油泵安裝螺釘	Screw	4
4	GR1551	油泵體	Lubricating oil	1
5	GR1900	油泵葉輪	Oil pump impeller	1
6	GR1553	油泵葉輪托板	Oil pump impeller cover	1
7	GR1554/2	油泵蓋部件	Lubricating oil pump cover	1
8	GS554	油泵蓋螺釘	Screw	3
9	GR1557G	上軸供油管接頭	Rubber joint	1
10	GR1559G	下軸供油管接頭	Rubber joint	1
11	GR1901	油泵墊圈	Collar	3
12	GS0109	油泵螺釘	Screw	3
13	GR1902	上軸供油管	Main shaft oil tube	1
14	GR1903	齒輪供油管橡皮接頭	Oil sight window base	1
15	GR1904	齒輪供油管	Gear oil pipe	1
16	GR1566	齒輪供油管夾	Holder	2
17	GS81	齒輪供油管夾螺釘	Screw	2
18	GR1565	回油管	Oil felt presser	1
19	GR1566	回油管夾	Oil felt presser	1
20	GS81	回油管夾螺釘	Screw	1
21	GR1567	回油除塵氈	Oil felt presser	1
22	GR1568	回油氈	Oil felt	1
23	GR1569	回油氈夾	Oil felt presser	1
24	GR1906	面部擋油板	Arm oil shield	1
25	GR1735	面部擋油板油線	Oil wick	1
26	GS069	面部擋油板上螺釘	Screw	1
27	GS010	面部擋油板下螺釘	Screw	1
28	GR1909	下軸供油管	Oil tube	1
29	GR1562	油窗O形圈	O-Rubber ring	1
30	GR1561	油窗	Oil sight window	1

# 9. 油盤、膝抬壓腳分組件



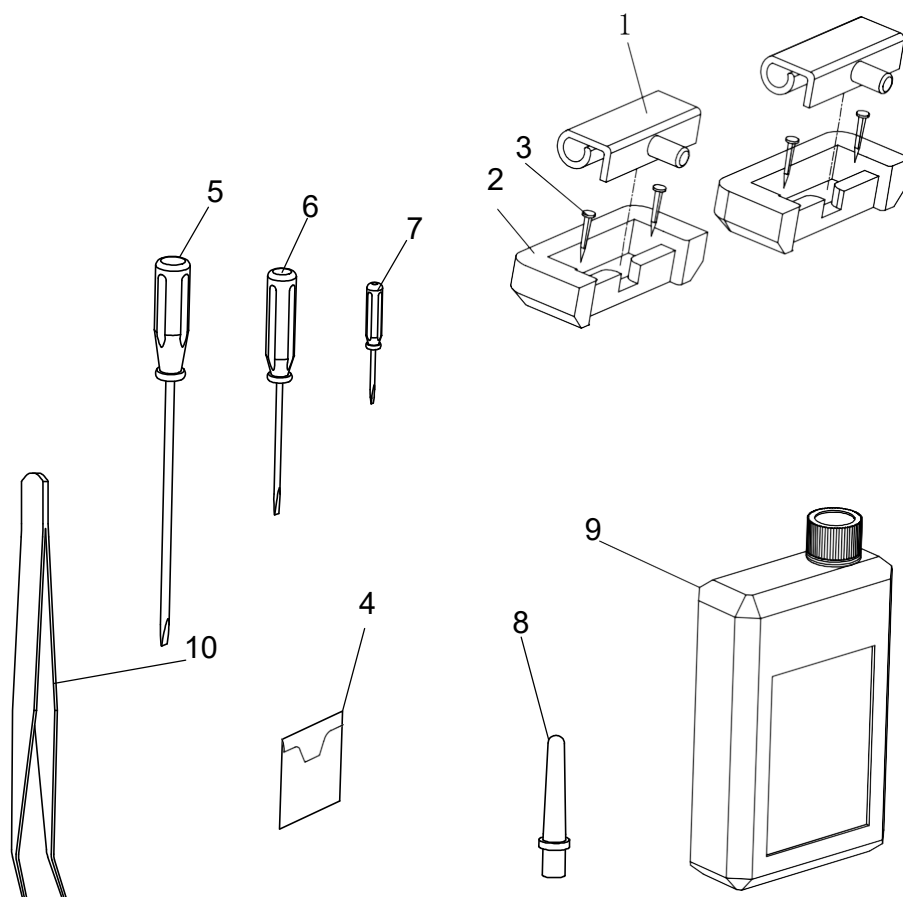
## 9. 油盤、膝抬壓腳分組件

9.Oil reservoir & knee  
lifter components

序號	件號	名稱	Description	數量
Ref.No.	Part.No			Amt.Req.
1	GR1910/23	油盤部件	Oil reservoir asm.	(1)
2	GR1911	油盤	Oil reservoir	1
3	GR1576	油盤磁鐵	Oil reservoir magnet	1
4	GR1912	油盤側面墊	Gasket	2
5	GR1913	油盤端面墊	Gasket	1
6	GR1577	機頭座墊	Rubber cushion	4
7	GR1578	油盤座墊	Oil reservoir felt cushion	2
8	GR1579	油盤支座	Oil reservoir rubber cushion	2
9	GBX105	油盤座釘	Nail	4
10	GR1575	排油螺釘O型圈	Oil drain cap gasket	2
11	GS02	排油螺釘	Oil drain screw	2
12	GR1581	抬壓腳頂銷	Knee press lifter rod	1
13	GR1582	抬壓腳雙向曲柄	Lifting	1
14	GS056	雙向曲柄螺釘	Positioning screw	1
15	GS057	雙向曲柄限位螺釘	Positioning screw	1
16	GL21	雙向曲柄限位螺母	Nut	1
17	GS058	雙向曲柄調節螺釘	Positioning screw	1
18	GL21	雙向曲柄調節螺母	Nut	1
19	GW261	雙向曲柄扭簧	Spring	1
20	GR1583	抬壓腳軸開口擋圈	Thrust ring	1
21	GZ283	抬壓腳軸	Knee press rod	1
22	GR1584	抬壓腳操縱桿節頭	Bearing bracket	1
23	GS059	操縱桿節頭螺釘	Clamp screw	2
24	GR1586	操縱桿	Knee lifter plate rod	1
25	GR1587	操縱板節頭	Knee press plate cover joint	1
26	GKS106	操縱板節頭螺釘	Screw	1
27	GR1588	操縱板	Knee press plate	1
28	GR1588-1	操縱板橡膠墊塊	Knee press plate spring	1
29	GKR13	操縱板軟墊	Knee press plate cover	1



# 10. 機頭分組件

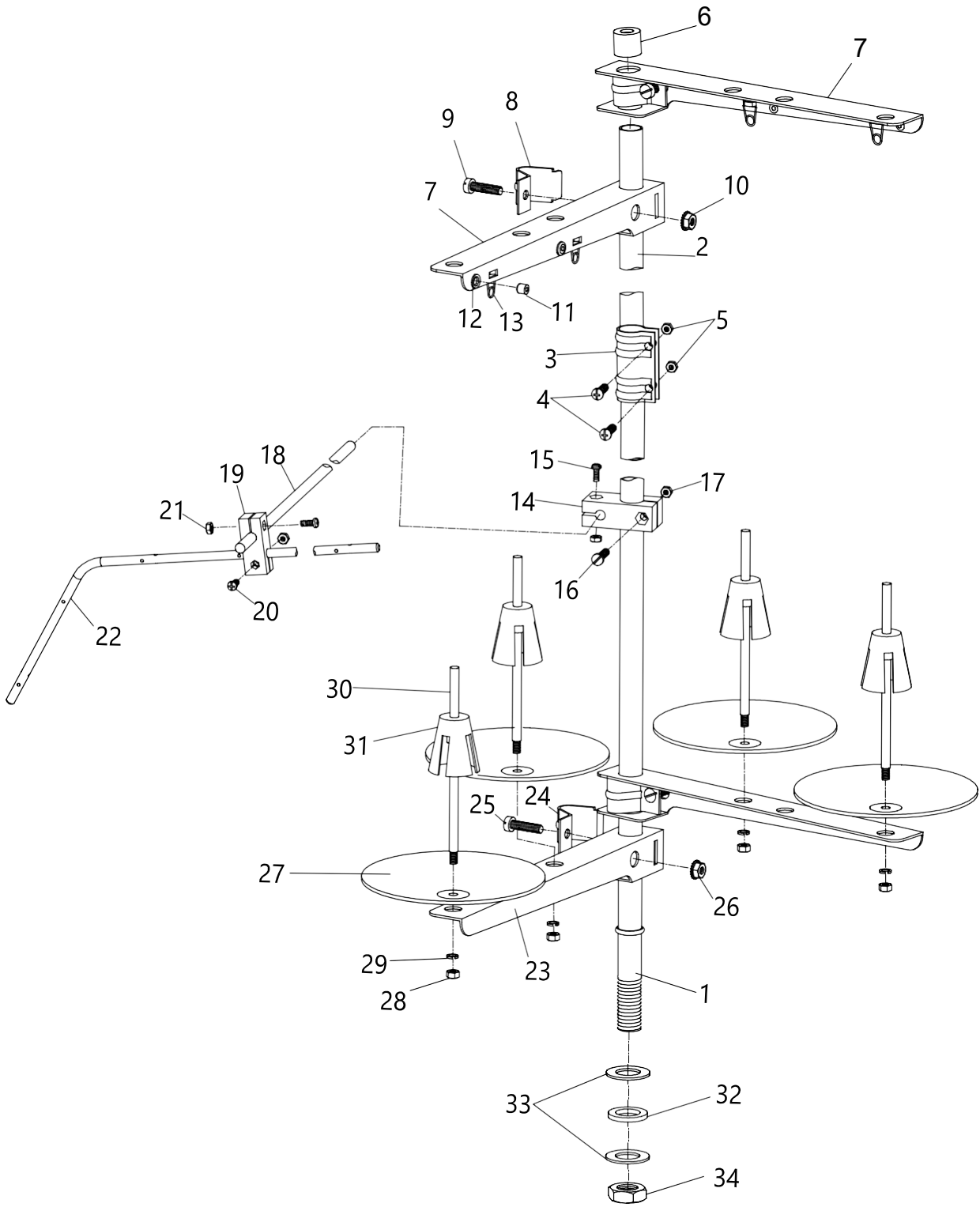


## 10.機頭附件

## 10.Machine head accessoires

序 號	件 號	名 稱	數 量	
Ref.No.	Part.No	Description	Amt.Req.	
1	GR1590/2	機頭連接鉤部件	Machine hinge plate asm.	2
2	GR1593	機頭連接鉤座	Machine hinge plate	2
3	GBX105	機頭連接鉤座釘	Nail	4
4	GV18	機針14/90 (中厚料)	Needle (Medium weight fabric)	1包
	GV18-20/125	機針20/125 (厚料)	Needle (Heavy weight fabric)	1包
5	GR1601	旋具 (大)	Screw driver(L)	1
6	GR1602	旋具 (中)	Screw driver(M)	1
7	GR1603	旋具 (小)	Screw driver(S)	1
8	GBR148	機頭支柱	Machine rest pin	1
9	GR1604/3	油壺部件	Lubricating unit case asm.	1
10	GR558/2	鑷子	Tweezer	1

# 11. . 四線架組件



## 11. 四線架組件

## 11.Quadruple-thread spool stand asm.

序號	件號	名稱	Description	數量
Ref.No.	Part.No			Amt.Req.
1	GZ315	線架桿下節	Spool rest rod(UPPER)	1
2	GZ316	線架桿上節	Spool rest rod(LOWER)	1
3	GR1932	線架桿接頭	Spool rested joint	1
4	GBM5-17	線架桿接頭螺釘	Screw	2
5	GBM5-8	線架桿接頭螺母	Nut	2
6	GR1744	線架桿預防橡皮	Spool rest rod rubber cap	1
7	GR1825	線架過線桿	Thread guide asm.	2
8	GR1745	線架過線夾	Thread guide asm joint	2
9	GS558	線架過線夾螺釘	Screw	2
10	GL23A	線架過線夾螺母	Nut	2
11	GR1784A	導線圈	Thread guide ring	4
12	GR1784A-1	導線圈橡膠套	Thread guide ring of rubber cap	4
13	GR1784B	導線圈	Thread guide ring	4
14	GR1933	線架導線桿夾	Thread guide arm holder	1
15	GS149	線架導線桿夾螺釘(A)	Screw	1
16	GS113	線架導線桿夾螺釘(B)	Screw	1
17	GL157	線架導線桿夾螺母	Nut	2
18	GZ317	線架導線桿	Thread guide asm.	1
19	GR1934	線架導線桿過線夾	Thread guide arm holder	1
20	GS231	線架導線桿過線夾螺釘	Screw	2
21	GL110	線架導線桿過線夾螺母	Nut	2
22	GR1935	線架導線桿過線	Lower thread guide	1
23	GR1825	線盤架	Spool rest arm.	2
24	GR1745	線盤架夾	Thread guide arm joint	2
25	GS558	線盤架夾螺釘	Screw	2
26	GL23A	線盤架夾螺母	NUT	2
27	GR1811	線盤	Spool rest	4
28	GL23	線盤釘螺母	Nut	4
29	GR1626	線盤釘彈簧墊圈	Spring washer	4
30	GS067	線盤釘	Spool pin	4
31	GR1215	線盤釘橡皮夾	Spool vibration stopper	4
32	GR1696	線架桿緊固螺母墊圈	Washer	2
33	GR1753	線架桿防震橡皮圈	Rubber washer	2
34	GL158	線架桿緊固螺母	Nut	2

注：

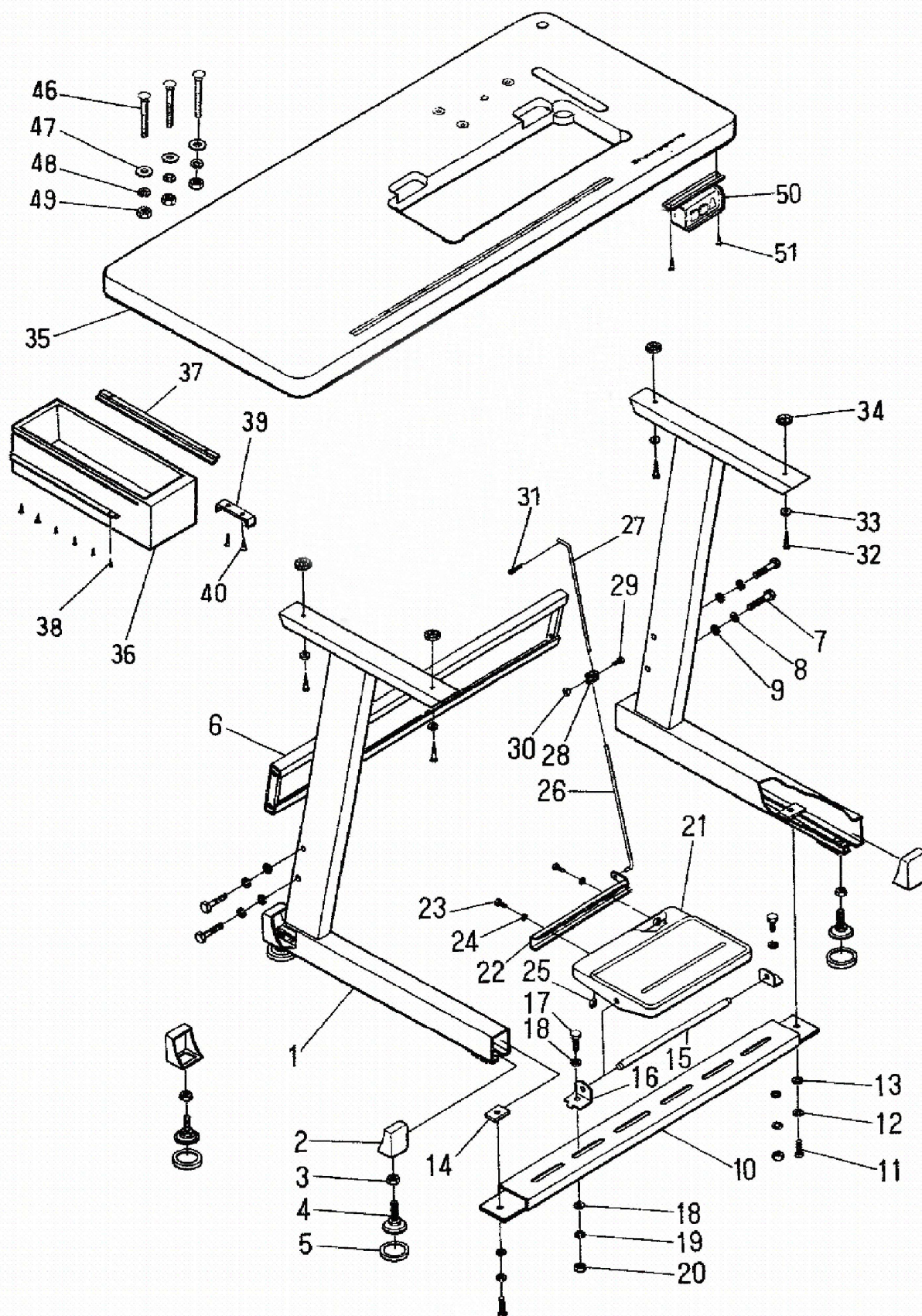
機型線架規格

DL3880.....二線架組件

DL3882.....四線架組件

DL3883.....六線架組件

## 12. 機架、桌板、電器分組件



## 12.機架、桌板、電器分組件

12.Machine stand,table and  
electric appliance components

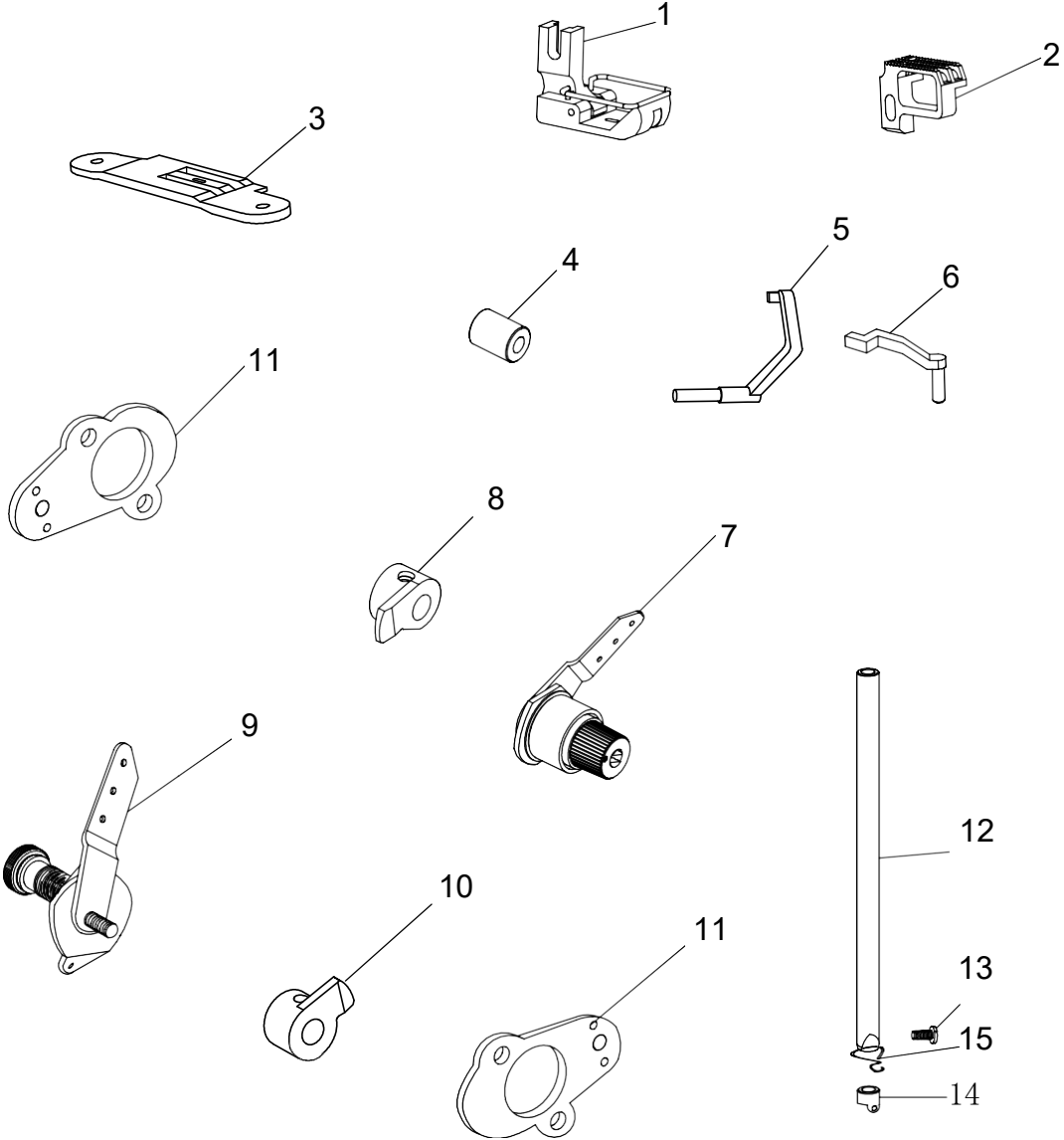
序號	件號	名稱		數量
Ref.N	Part.No		Description	Amt.Req.
1	GKR193/5	邊架部件	Stand side asm	2
2	GKR194	邊架座套	Rubber cushion	4
3	GKL104	調節座螺母	Nut	4
4	GKR196/2	調節座	Screw	4
5	GKR198	調節座膠墊	Spring washer	4
6	GKR173/3	橫檔部件	Stand side support asm	1
7	GKS119	橫檔連接螺釘	Screw	4
8	GKR176	邊架柱彈簧墊圈	Spring washer	4
9	GR253	邊架柱墊圈	Washer	4
10	GKR178/3	踏板軸檔部件	Treadle brace asm	1
11	GKS110	踏板軸檔螺釘	Screw	2
12	GKR122	踏板軸檔墊圈	Washer	2
13	GKR106	踏板軸檔彈簧墊圈	Spring washer	2
14	GKR181	踏板軸檔定位螺母板	Treadle brace locknut plate	2
15	GKX106	踏板軸	Treadle shaft	1
16	GKR184	踏板軸座	Treadle bracket	2
17	GKS110	踏板軸座螺釘	Screw	2
18	GKR122	踏板軸座墊圈	Washer	4
19	GKR106	踏板軸座彈簧墊圈	Spring washer	2
20	GKL102	踏板軸座螺母	Nut	2
21	GKR182	踏板	Treadle	1
22	GKR111	踏板杠桿	Treadle pitman	1
23	GKS102	踏板杠桿螺釘	Screw	2
24	GKR112	踏板杠桿墊圈	Washer	2
25	GKL102	踏板杠桿螺母	Nut	2
26	GKR116	下拉桿	Pitman rod,lower	1
27	GKR118	上拉桿	Pitman rod,upper	1
28	GKR183	拉桿接頭	Joint	1
29	GKS110	拉桿接頭螺釘	Joint screw	1
30	GKL101	拉桿接頭螺母	Joint nut	1
31	GKX101	上拉桿開口銷	Pitman rod split pin(upper)	1
32	GBS114	桌板木螺釘	Table wood screw	4
33	GKR112	桌板木螺釘墊圈	Table wood screw washer	4
34	GKR186	桌板墊圈	Table washer	4
35	DL7000T-T1	桌板	Table	1
36	GBR151	抽斗	Drawer	1
37	GBR152	抽斗導軌	Drawer rail	2
38	GBS121	抽斗導軌木螺釘	Drawer rail wood screw	6
39	GBR153	抽斗限位板	Drawer limit plate	1
40	GBS120	抽斗限位板木螺釘	Drawer limit plate wood screw	2

46	GKS122	電機桌板連接螺釘	Motor&table connecting screw	3
47	GKR209	電機桌板連接墊圈	Motor&table connecting washer	3
48	GKR106	電機桌板連接彈簧墊圈	Motor&table connecting spring washer	3
49	GKL101	電機桌板連接螺母	Motor&table connecting nut	3
50	GD227	電源開關	Power source switch	1
51	GBS104	電源開關木螺釘	Power source switch wood screw	2

\*本分組件需另行訂購。

Note that parts of this subclass above mentioned shall be purchased in a separate order.

13. .DL3881 専用件

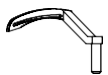
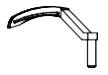










### 13. DL3881專用件

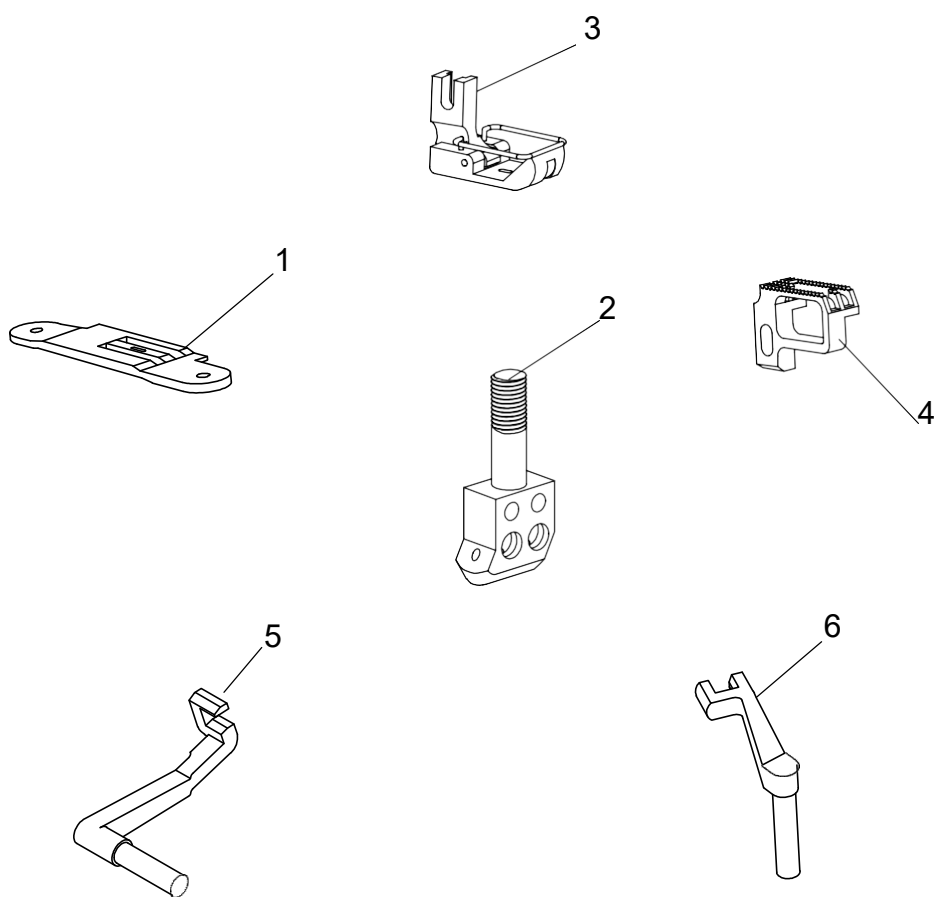
序 號	件 號	名 稱	Description	數 量
Ref.No.	Part.No			Amt.Req.
1	GM275/7	壓腳部件 .....	Presser foot asm .....	1
2	GM276	送料牙 .....	Feed dog .....	1
3	GM277	針板 .....	Throat plate .....	1
4	GR1998	彎針曲柄擋圈 .....	Throat collar .....	1
5	GR1999	擺動護針桿 .....	Driving needle guard .....	1
6	GR2000	固定護針桿 .....	Counter needle guard .....	1
7	GR2001/9	面線夾線器部件 .....	Needle Thread tensiong asm. ....	1
8	GR2002	面線鬆線爪 .....	Tension release latch .....	1
9	GR2003/11	底線夾線器部件 .....	Lower thread tension asm .....	1
10	GR2005	底線鬆線爪 .....	Looper thread release latch .....	1
11	GR2004	夾線器安裝板 .....	Tension installing plate .....	2
12	GZ318	針桿 .....	Needle bar .....	1
13	GS071	支針螺釘 .....	Screw .....	1
14	GR1481	針桿線鉤 .....	Needle bar thread guide .....	1
15	GR1480	針桿下襯套線鉤 .....	Thread guide .....	1

14.DL3882專用件 Special part For DL3882

名稱 Name		右彎針 Right looper	左彎針 Lift looper	推板 Bed slide	凸輪蓋 Cam cover	卷邊器 Folder
		圖示 Solid drawing				
規格 Specifications						
1	3/16" (4.8mm)	GN170	GN169	GM245	GM243	GR1924/5
2	1/4" (6.4mm) 中厚料 Medium					GM243-S
	1/4" (6.4mm) 厚料 Heavy					

名稱 Name		針板 Throatplate	針夾 Needle clamp	壓腳 Presser foot asm.	送料牙 Feed dog	擺動護針桿 Rear moving needle guard	右固定護針桿 Right fix needle guard	固定護針桿 Left needle guard
		圖示 Solid drawing						
規格 Specifications								
1	3/16" (4.8mm)	GM251	GR1929	GM249/5	GM250	GR1936	GR1860	GR1859
2	1/4" (6.4mm) 中厚料 Medium	GM248	GR1826	GM246/5	GM247	GR1857		
	1/4" (6.4mm) 厚料 Heavy	GM248-H		GM246-H	GM247-H			


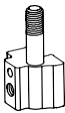




15. DL3882R 専用件





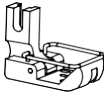

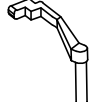
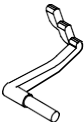
## 15. DL3882R 專用件

序 號	件 號	名 稱	數 量
Ref.No.	Part.No	Description	Amt.Req.
1	GM272	針板 ..... Throat plate .....	1
2	GR1989	針夾 ..... Needle clamp .....	1
3	GM271	壓腳 ..... Presser foot asm. ....	1
4	GM273	送料牙 ..... Feed dog .....	1
5	GR1993	固定護針桿 ..... Rear moving needle guard .....	1
6	GR1992	擺動護針桿 ..... Needle guard .....	1

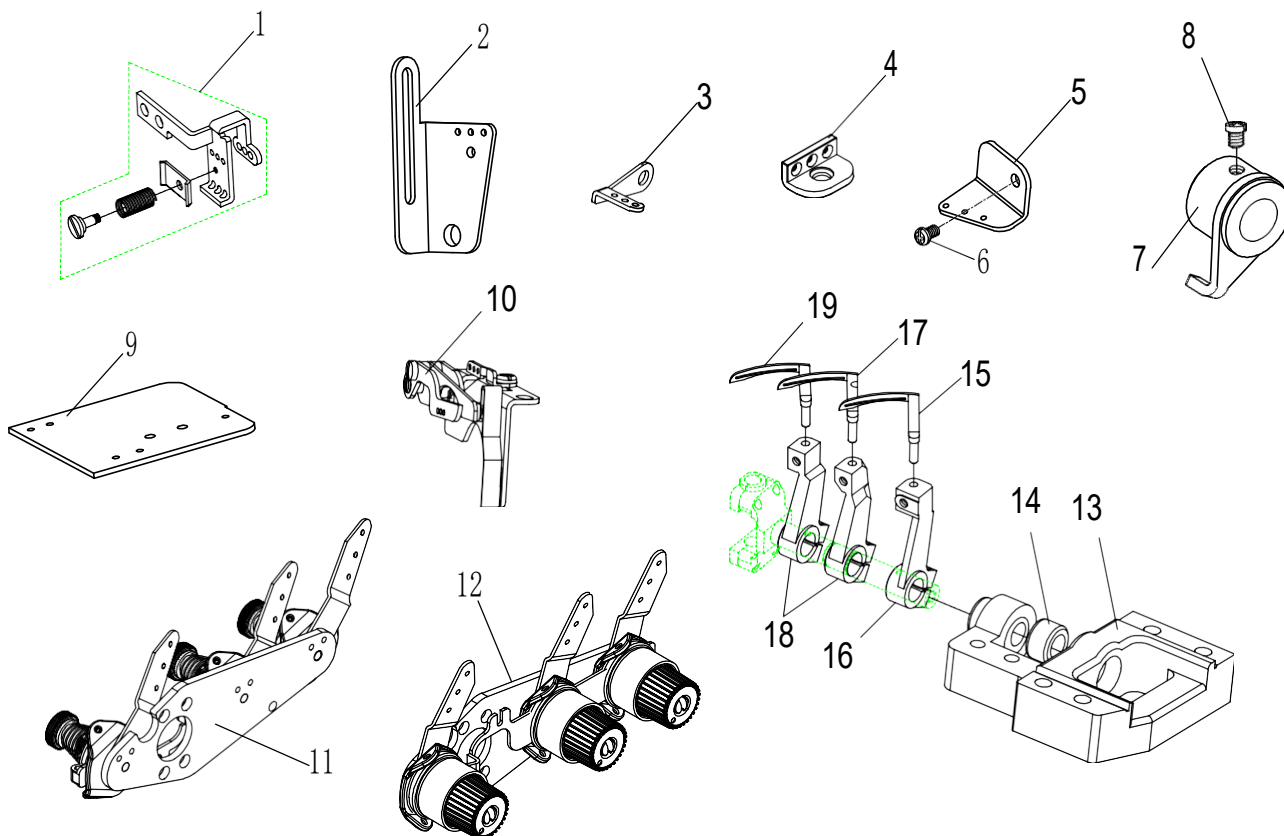
## DL3883R 專用件

名稱 Name	針板 Throat plate	針夾 Needle clamp	壓腳 Presser foot asm.	送料牙 Feed dog		擺動護針桿 Rear moving needle guard	左固定護針桿 Left needle guard
件號 Part.No.	GM248-S	GR1826-S	GM246/5-S	GM247-S 中厚料 Medium	GM247-SH 厚料 Heavy	GR1857-S	GR1859-S
數量 Amt.Req.	1	1	1	1		1	1
圖示 Solid drawing							

## DL3883 專用件

名稱 Name	針板 Throat plate	針夾 Needle clamp	壓腳 Presser foot asm.	送料牙 Feed dog		擺動護針桿 Rear moving needle guard	左固定護針桿 Left needle guard
件號 Part.No.	GM248-P	GR1826-P	GM246/5-P	GM247-P 中厚料 Medium	GM247-PH 厚料 Heavy	GR1857-P	GR1859-P
數量 Amt.Req.	1	1	1	1		1	1
圖示 Solid drawing							

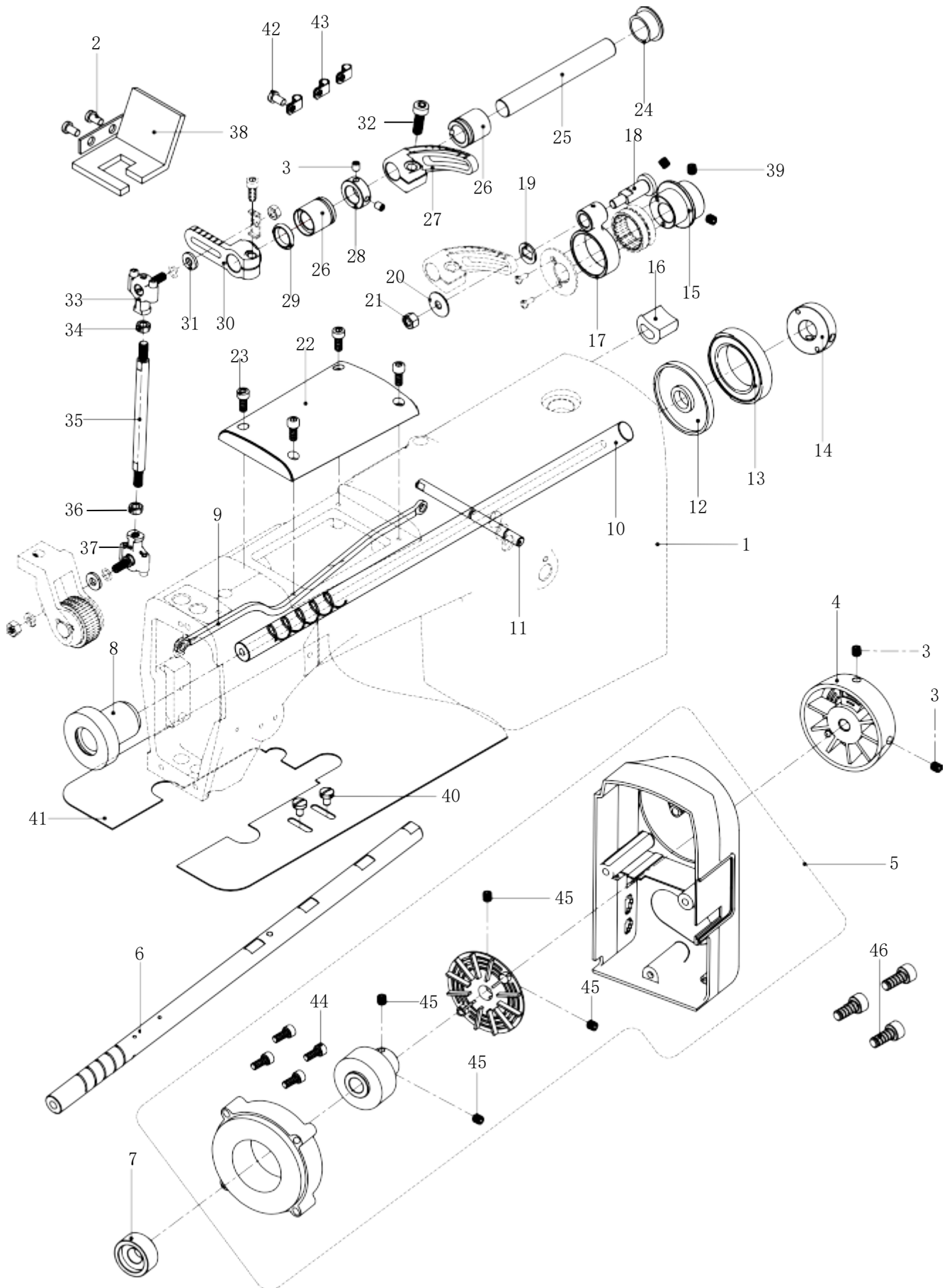
## 16. DL3883R、DL3883 通用件



## 16. DL3883R、DL3883 通用件

序 號	件 號	名 稱	數 量
Ref.No.	Part.No	Description	Amt.Req.
1	GH391/4-S-P	挑線桿部件 ..... Thread take-up asm. ....	1
2	GR1863-S-P	中間導線勾 ..... Frame thread shaft .....	1
3	GR1875-S-P	導線勾 ..... Frame thread guide .....	2
4	GR1887-S-P	底線導線勾 ..... Looper thread guide .....	1
5	GR1907-S-P	過線板架 ..... down thread guide .....	1
6	GS042	過線板架螺釘 ..... Screw .....	4
7	GR1876/2-S-P	鬆線爪組件 ..... Tension release latch asm. ....	2
8	GS010	鬆線爪組件螺釘 ..... Screw .....	4
9	GM243-S-P	凸輪蓋 ..... Cam cover .....	1
10	GR1878-S-P	凸輪導線鉤部件 ..... Looper thread guide asm. ....	1
11	GR1891-S-P	底線夾線器部件 ..... Lower thread tension asm. ....	1
12	GR1870-S-P	面線夾線器部件 ..... Needle thread tension asm. ....	1
13	GR1855-S-P	彎針架座 ..... Looper mounting base .....	1
14	GO318-S-P	彎針擺軸後套 ..... Bushing, rear .....	1
15	GN169	前彎針 ..... Looper(Left) .....	1
16	GH385-S-P	前彎針曲柄 ..... Looper holder asm.(Left) ....	1
17	GN170-S-P	中彎針 ..... Looper(mid) .....	1
18	GH386-S-P	後彎針曲柄 ..... Looper holder asm.(mid) ....	2
19	GN000-S-P	後彎針 ..... Looper(right) .....	1

# 17. DL3880一體機部件 DL3880 ONE MECHANISM



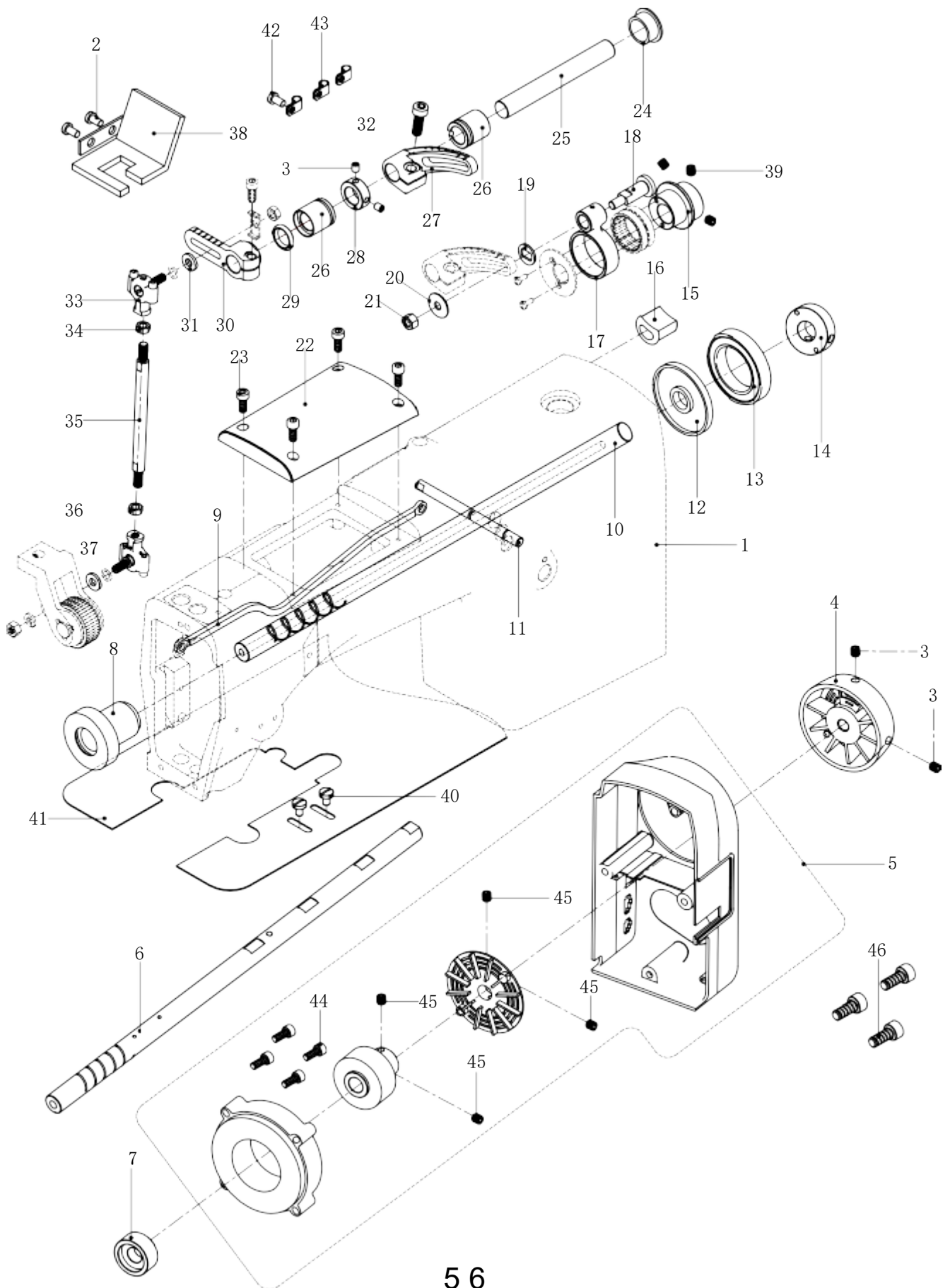
## 17. DL3880直驅一體機部件

### DL3880 Direct drive one mechanism

序號 No.	件號 Part. No	零件名稱	Description	數量 Q'ty
1	V20-01	機殼	Machine Frame	1
2	LD00222	十字槽盤頭螺釘M5×9	Screw	2
3	LD00083	內六角緊定螺釘M5×5	Screw	4
4	V20-04DD	手輪	Hand wheel	1
5	3880DK-3-01	琦星簡易款一體機	Motor asm.	1
6	V20-27-DD	上主軸	Main'shaft	1
7	V20-65	上軸後軸套	Main Shaft Bushing ( Rear )	1
8	V20-19	上軸前銅套	Copper sets	1
9	V20-30	抬壓腳板	Board	1
10	V20-27-DD-P	上主軸(帶拖輪)	Main'shaft	1
11	V20-22	鬆線軸	Tension release shaft	1
12	YF00020	上軸油封	Oil Seal	1
13	ZC00043	軸承6907Z	Ball bearing	1
14	V20-64	軸承套	Ball bearing sets	1
15	V20-25	偏心輪	Eccentric wheel	1
16	V20-14	送料調節器孔孔塞	Cushion rubber	1
17	V20-21	偏心輪連桿	connecting rod	1
18	V20-32	軸位螺釘	Screw	1
19	V20-29	異形墊圈	Washer	1
20	DQ00045	墊圈	Washer	1
21	LM00024	螺母SM1/4"×32	Nut	1
22	V20-28	頂蓋	Top cap	1
23	LD00116	內六角圓柱頭螺釘M4×12	Screw	4
24	V20-34	拖布輪孔孔塞	Cushion rubber	1
25	V20-35	後拖輪軸	Puller driving shaft	1
26	V20-36	後拖輪軸銅套	Bush	2
27	V20-37	後拖輪曲柄	Puller driving lever	1
28	V20-38	擋圈	Collar	1
29	YF00021	油封	Oil Seal	1
30	V20-40	調節連桿	Adjusting Rod Assembly	1
31	DQ00046	墊圈	Washer	2
32	LD00226	內六角圓柱頭螺釘M6×20	Screw	1
33	927PL013	關節軸承組件 ( 上 )	Ball parts(Upper)	1
34	LM00003	螺母M6	Nut	1
35	V20-41	連接軸	Shaft for linking balls	1

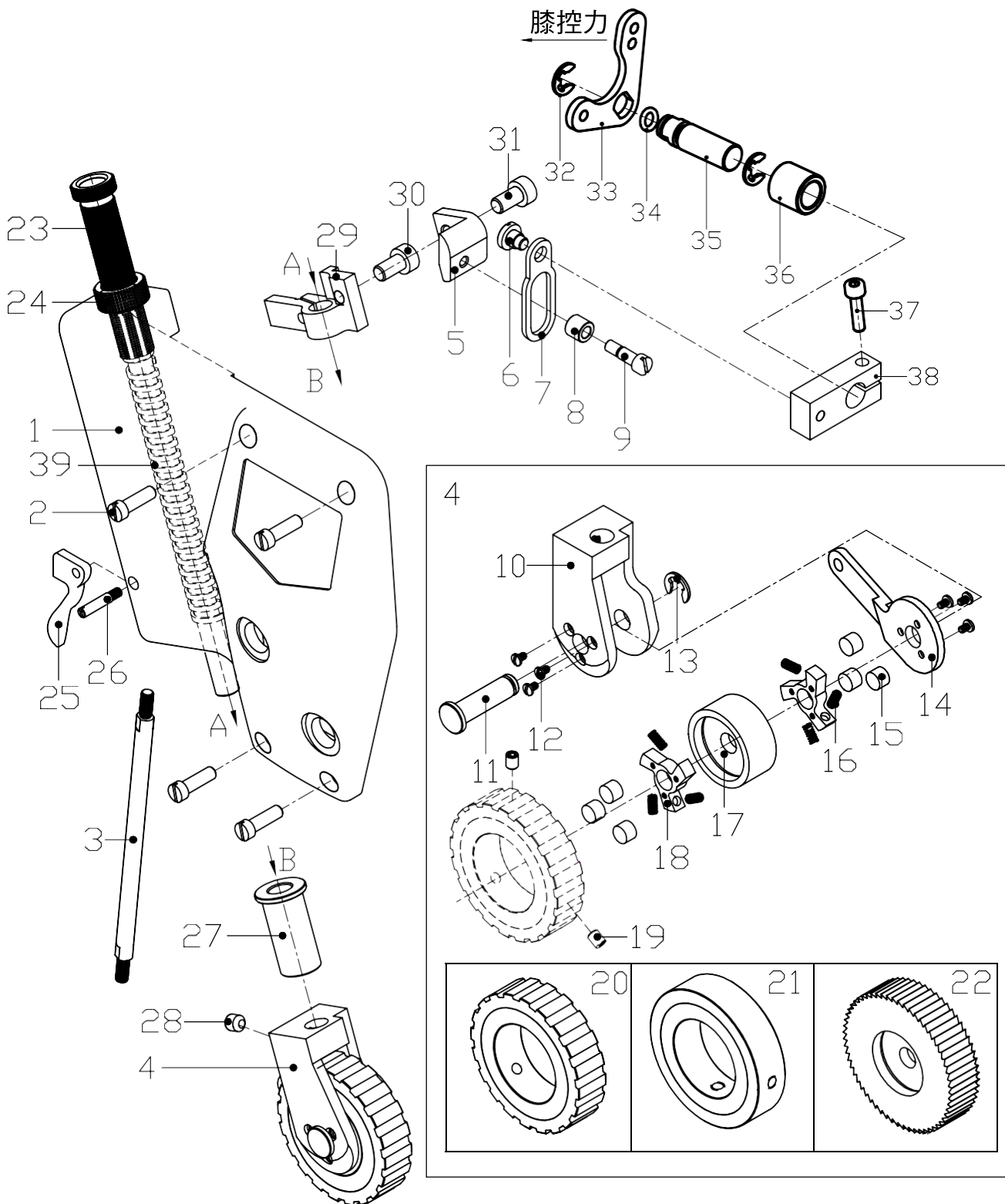


# 17. DL3880一體機部件 DL3880 ONE MECHANISM





18.P 拖輪裝置部件  
*P tugboat device components*

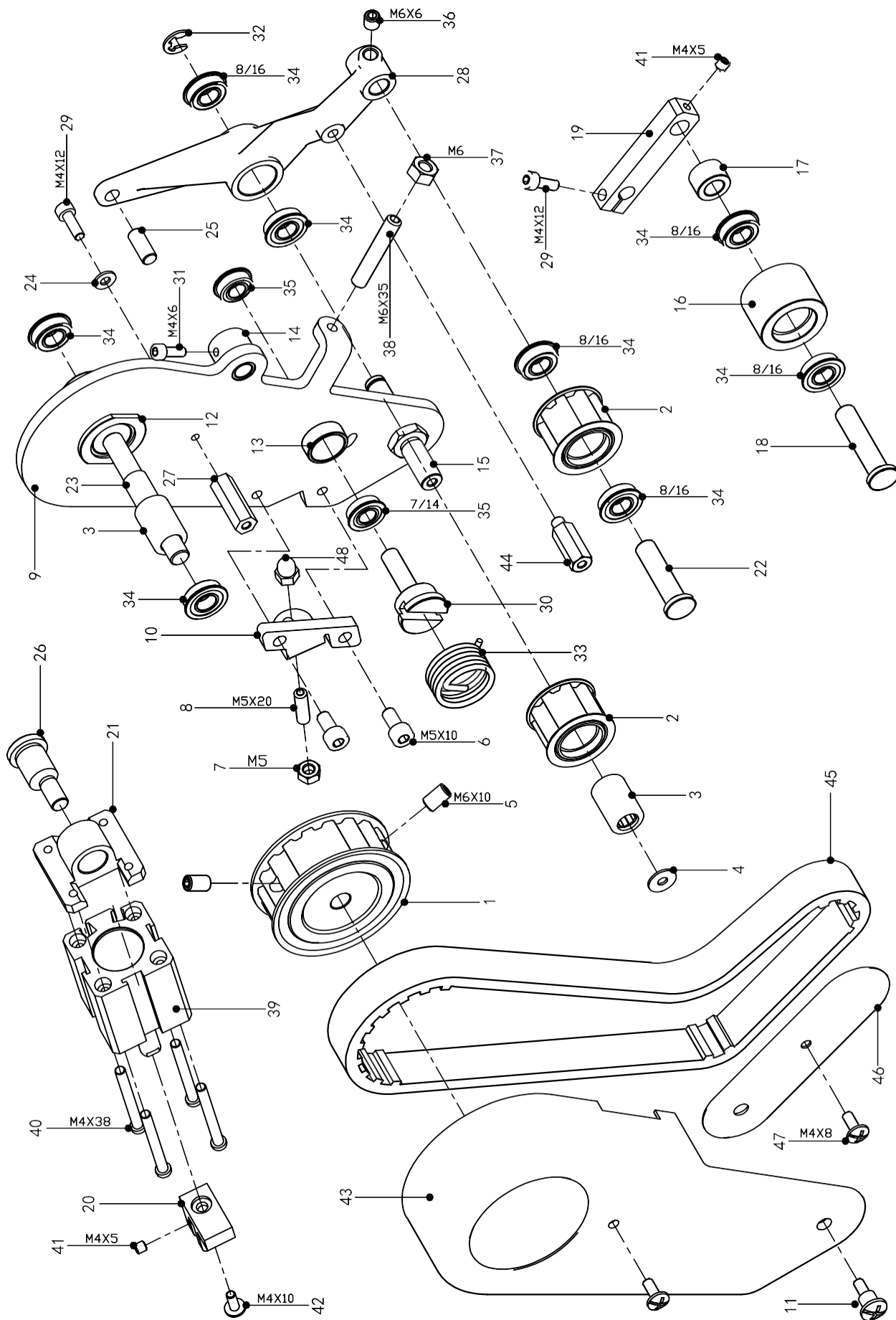


## 18. P 拖輪裝置部件

### *P tugboat device components*

序號 No.	件號 Part. No	零件名稱	Description	數量 Q'ty
1	V21-01	菱形面板	Diamond panel	1
2	V4-21	一字開槽圓柱頭螺釘	Screw SM3/16"×28	4
3	V21-03	連接軸	Shaft for linking balls	1
4	V21-04	大拖輪組件(膠齒拖輪)	Large tug components(Plastic gear)	1
4	V21-04-T	大拖輪組件(鐵齒拖輪)	Large tug components(Iron gear)	1
4	V21-04-J	大拖輪組件(膠拖輪)	Large tug components(Rubber wheel)	1
5	V21-05	壓桿夾連接座	Connecting seat	1
6	V18-60	軸位螺釘	Screw	1
7	V21-07	連接板	Plate	1
8	V21-08	滾套	Collar	1
9	V21-09	螺釘	Screw	1
10	V21-10	拖輪安裝支架	Upper puller Stent	1
11	927PL049	拖布輪軸	Puller Shaft	1
12	LD00170	開槽圓柱頭螺釘SM3/32"×56	Screw SM3/32"×56	6
13	TDQ00006	開口擋圈6	Ring	1
14	V21-14	星輪連桿	Star ferry link	1
15	927PL052	滾子	Rolling shaft	6
16	TH00024	彈簧	Spring	6
17	V21-17	膠輪內圈	Tire inner ring	1
18	927PL054	星輪	Star ferry	2
19	V20-49	內六角圓柱頭螺釘SM11/64"×40	Screw	2
20	V21-20	膠齒輪 (G)	Plastic gear (G)	1
21	V21-21	平膠輪 (P)	Rubber wheel (P)	1
22	V21-22	鐵齒輪 (I)	Iron gear (I)	1
23	927BT001	調節螺絲	Screw	1
24	V21-24	螺母	Nut	1
25	927PL030	扳手	Presser foot lifter	1
26	927PL029	扳手軸銷	Support stud	1
27	927PL031	壓桿軸套	Presser bar bush	1
28	LD00003	內六角緊定螺釘M6×6	Screw M6×6	3
29	V18-4	壓桿夾	Presser bar clamp	1
30	LD00044	內六角圓柱頭螺釘M5×10	Screw M5×10	1
31	V18-61	內六角圓柱頭螺釘SM15/64"×28	Screw SM15/64"×28	1
32	V18-53	開口擋圈7	Ring	2
33	V18-51	抬壓腳前杠桿片	Leverage tablets	1
34	V18-54	O形圈	O ring	1
35	V18-52	抬壓腳前杠桿軸	Lever shaft	1
36	V18-55	抬壓腳前杠桿軸套	Sleeve	1
37	V18-57	內六角圓柱頭螺釘M4×16	Screw M4×16	1
38	V18-56	抬壓腳曲柄	Crank	1
39	V18-2	壓簧	Presser bar spring	1

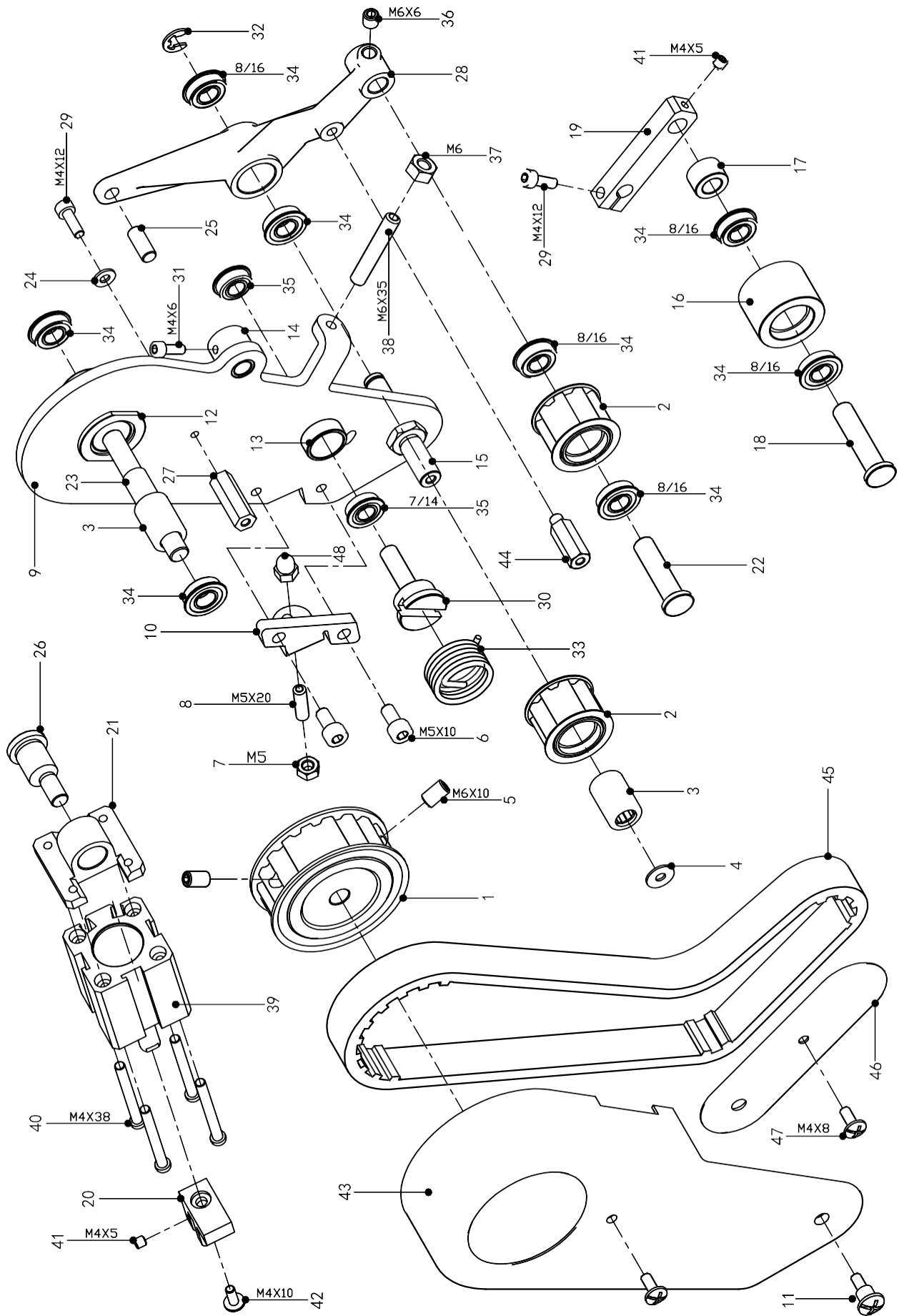
# 19.AP 氣控拖輪裝置 AP Pneumatic Puller



## 19. AP-氣控拖輪裝置 Pneumatic Puller

序号/NO	代号/Assemble NO	件号/Part NO	名称/Description	数量/Num
1	3880MPF-1	9588PF001	大同步轮 (L型) /Large synchronous wheel	1
2	3880MPF-2	9588PF002	小同步轮 (L型) /Small synchronous wheel	2
3	3880MPF-3	ZC00028	单向滚针轴承/ Bearing	2
4	3880MPF-4	DQ00065	平垫圈/Washer	1
5	3880MPF-5	LD00001	内六角紧定螺钉M6X10/Screw M6	2
6	3880MPF-6	LD00044	内六角圆柱头螺钉M5X10/Screw M5	2
7	3880MPF-7	LM00017	螺母M5/Nut M5	1
8	3880MPF-8	LD00268	内六角紧定螺钉M5X20/Screw M5	1
9	3880MPF-9	9588PF009	拖轮安装板组件/Mounting plate component	1
10	3880MPF-10	9588PF010	限位角支架/Limit Angle bracket	1
11	3880MPF-11	9588PF052	轴位螺钉/Stalk bolt	1
12	3880MPF-12	9588PF012	大同步轮嵌套/Nested	1
13	3880MPF-13	9588PF013	压紧轮嵌套/Pinch roller nested	1
14	3880MPF-14	9588PF014	气缸限位销嵌套/Limit pin cylinder nested	1
15	3880MPF-15	9588PF015	下过渡同步轮轴销/Shaft pin	1
16	3880MPF-16	9588PF016	压紧轮/Pinch roller	1
17	3880MPF-17	9588PF017	压紧轮垫圈/Pinch roller washer	1
18	3880MPF-18	9588PF018	压紧轮轴销/Pressure shaft pin	1
19	3880MPF-19	9588PF019	压紧轮连杆/Pinch roller connecting rod	1
20	3880MPF-20	9588PF020	气缸连接块/Cylinder connecting piece	1
21	3880MPF-21	9588PF021	气缸连接座/Cylinder connecting seat	1
22	3880MPF-22	9588PF022	小同步轮轴销/Shaft pin	1
23	3880MPF-23	9588PF023	大同步轮轴/Large synchronous shaft	1
24	3880MPF-24	DQ00064	平垫圈4/Washer 4	1
25	3880MPF-25	9588PF025	连接块销/Connection piece pin	1
26	3880MPF-26	9588PF026	气缸限位轴销/Shaft pin	1
27	3880MPF-27	9588PF027	皮带罩安装柱/Install the column	1
28	3880MPF-28	9588PF028	小同步轮摆动连杆/Swinging rod	1
29	3880MPF-29	LD00116	内六角圆柱头螺钉M4X12/Screw M4	2
30	3880MPF-30	9588PF030	扭簧轴销/Torsional spring shaft pin	1
31	3880MPF-31	LD00182	内六角圆柱头螺钉M4X6/Screw M4	1
32	3880MPF-32	TJQ00006	开口挡圈6/Open ring	1
33	3880MPF-33	9588PF033	压紧轮扭簧/Pinch roller torsional spring	1
34	3880MPF-34	ZC00024	带挡边深沟球轴承8/Bearing	8
35	3880MPF-35	ZC00025	带挡边深沟球轴承7/Bearing	2

# 19.AP 氣控拖輪裝置 AP Pneumatic Puller



## 19. AP-氣控拖輪裝置 Pneumatic Puller

序号/NO	代号/Assemble NO	件号/Part NO	名称/Description	数量/Num
36	3880MPF-36	LD00003	内六角紧定螺钉M6X6/Screw M6	1
37	3880MPF-37	LM00006	螺母M6/Nut M6	1
38	3880MPF-38	LD00269	内六角紧定螺钉M6X35/Screw M6	1
39	3880MPF-39	927Q.1.16	气缸SDA20X20/Cylinder SDA20X20	1
40	3880MPF-40	LD00227	螺钉M4-38/Screw M4	4
41	3880MPF-41	LD00074	内六角紧定螺钉M4X5/Screw M4	2
42	3880MPF-42	LD00272	一字螺钉M4X10/Screw M4	1
43	3880MPF-43	9588PF071	拖轮罩壳/Tug housings	1
44	3880MPF-44	9588PF068	挡板安装柱/Install the column	1
45	3880MPF-45	9588PF073	同步带210L/Synchronous belt	1
46	3880MPF-46	9588PF070	小同步轮挡板/Baffle	1
47	3880MPF-47	LD00271	一字螺钉M4/Screw M4	2
48	3880MPF-48	LM00037	尼龙盖形螺母M5/Nut M5	1





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The specification and/or appearances of the equipment described in this instruction book & parts list are subject to change because of modification which will without previous notice.

DL3880 Series.JUL.2022