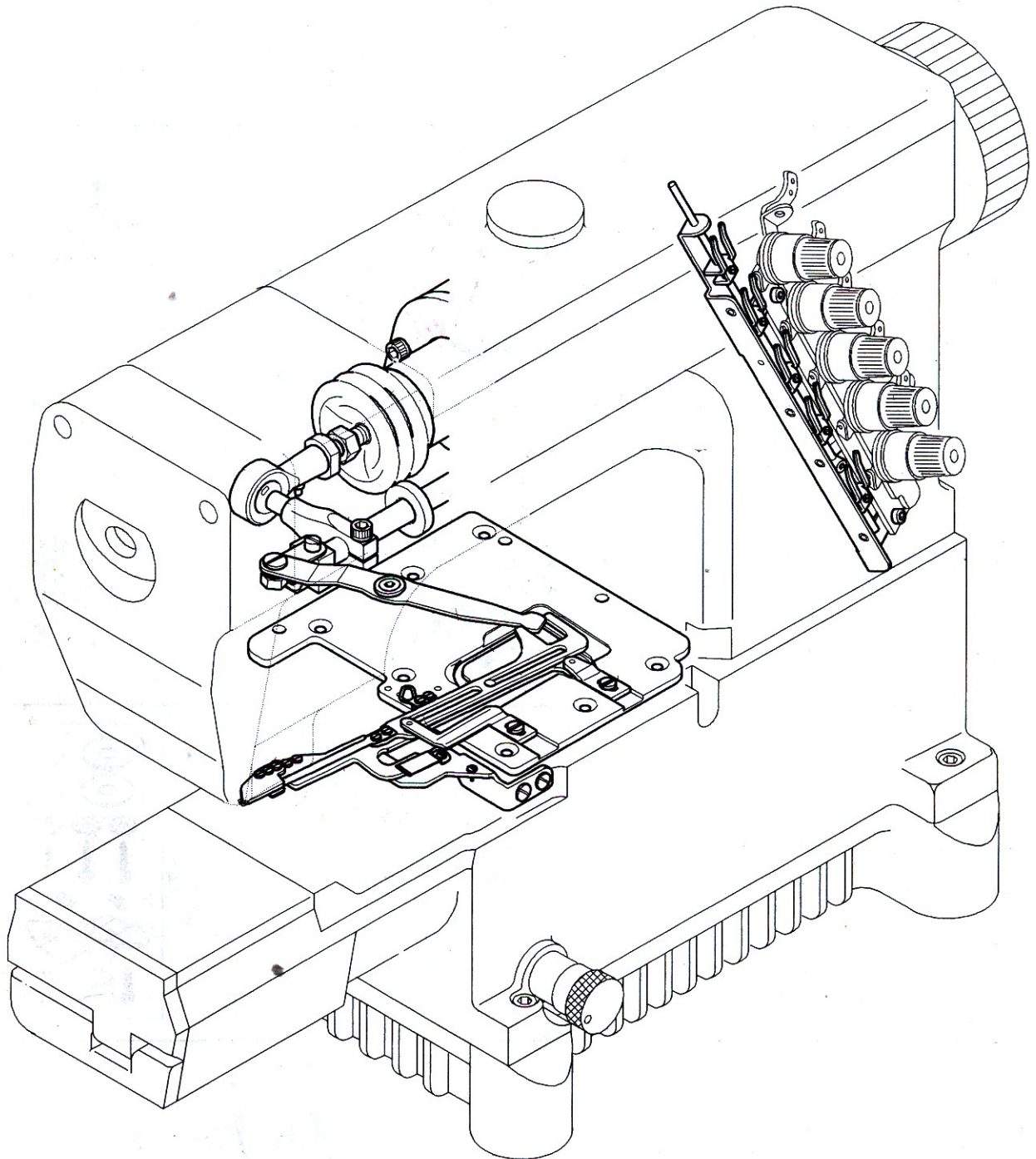


VC2700-E

安裝說明書
Installation Introduction

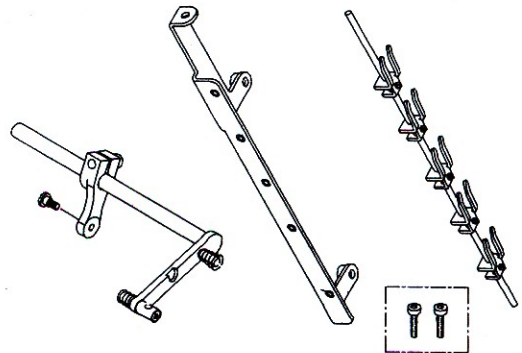


前言 PREFACE:

- 請依本說明書頁次按照順序安裝與調整，以確保您可以在最短時間內得到最佳運轉效果。
- Please follow this operation instruction to install & adjust according to the orders. You will get the best efficiency in the short time.

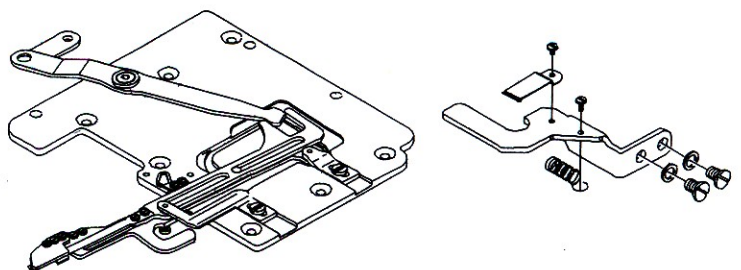
(一).安裝鬆線裝置

Installation description for slack wire device



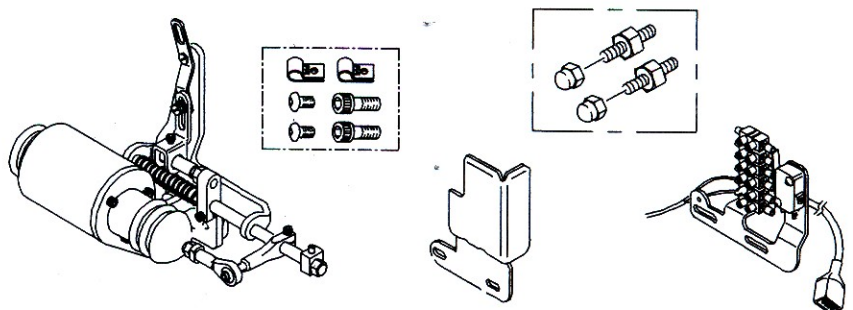
(二).安裝下刀組

Installation the lower blade set



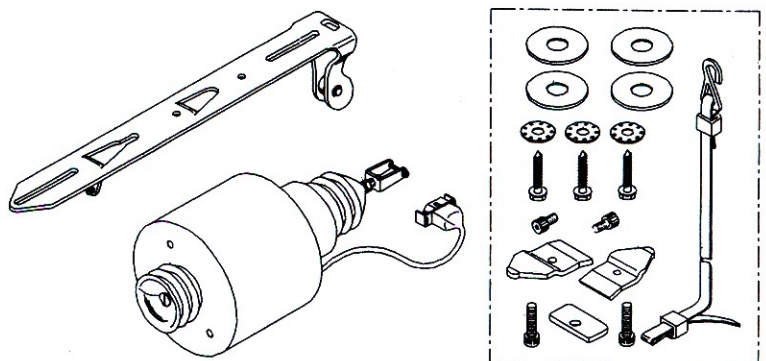
(三).安裝傳動裝置

Installation the gearing



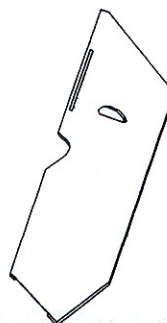
(四).提升壓腳裝置

Lifting foot press operation introduction



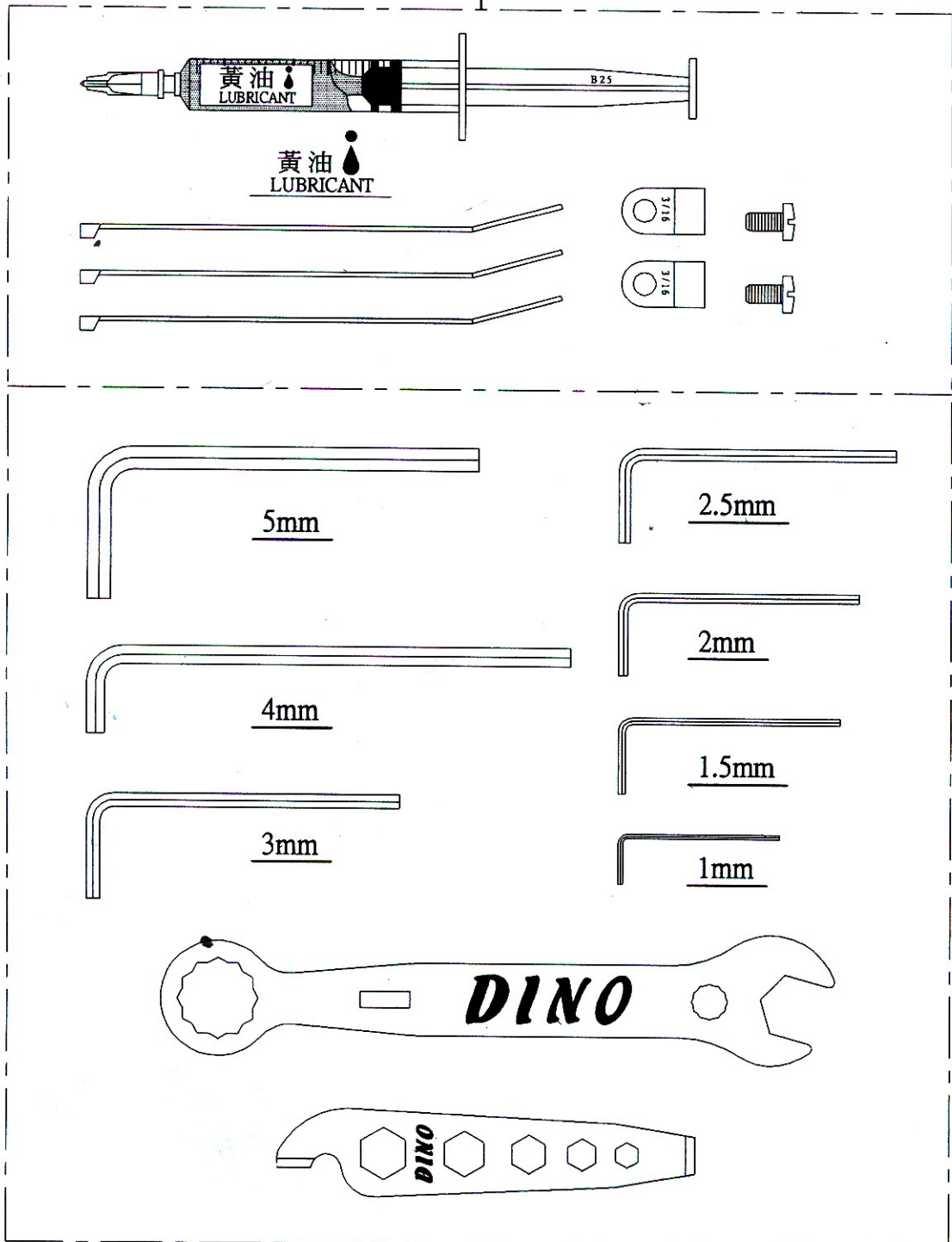
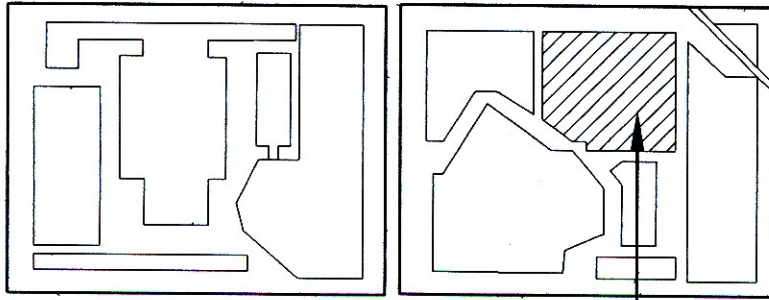
(五).更換活動保護片

Change movable protect piece

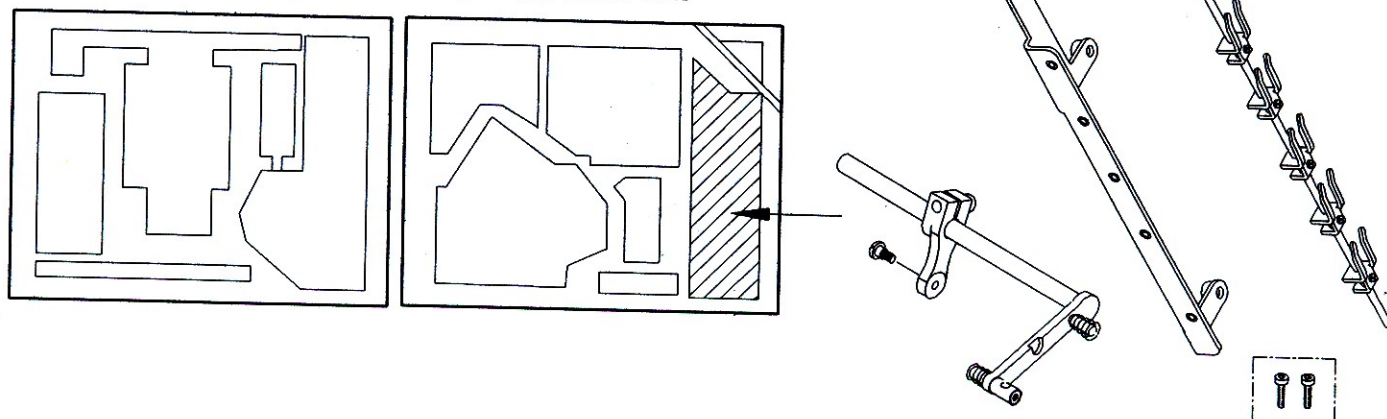


●工具包 Tool bag

●包裝盒內位置標示 The position in the box

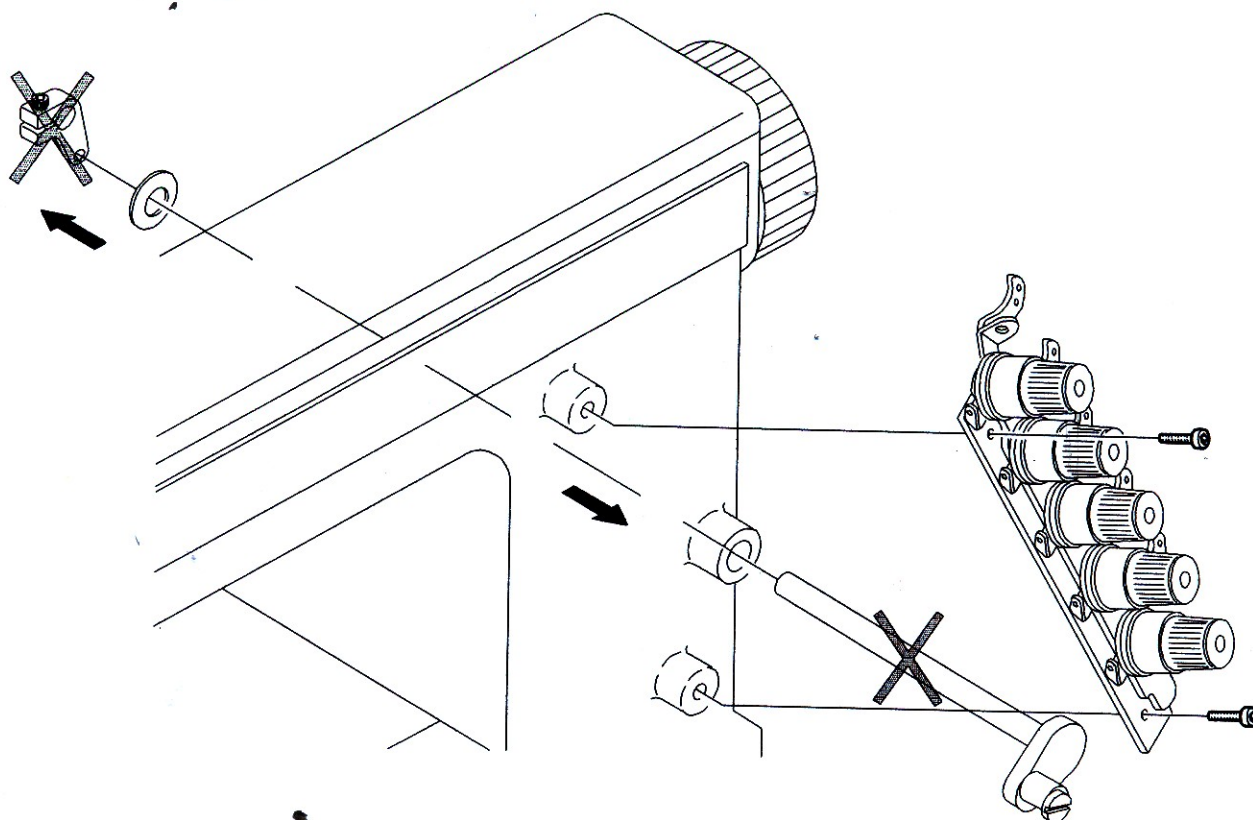


●包裝盒內位置標示 The position in the box



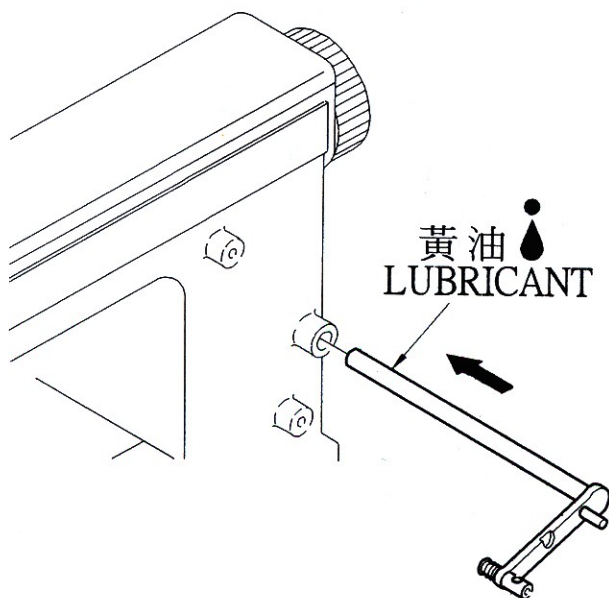
(A).取下原有鬆線張力調整組.

Take off the original factory accessories.



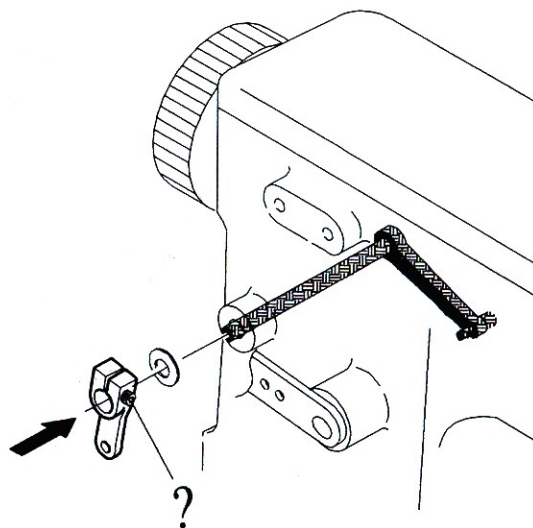
(B).將連軸置入通口。

Insert the coupling axle into the passageway.



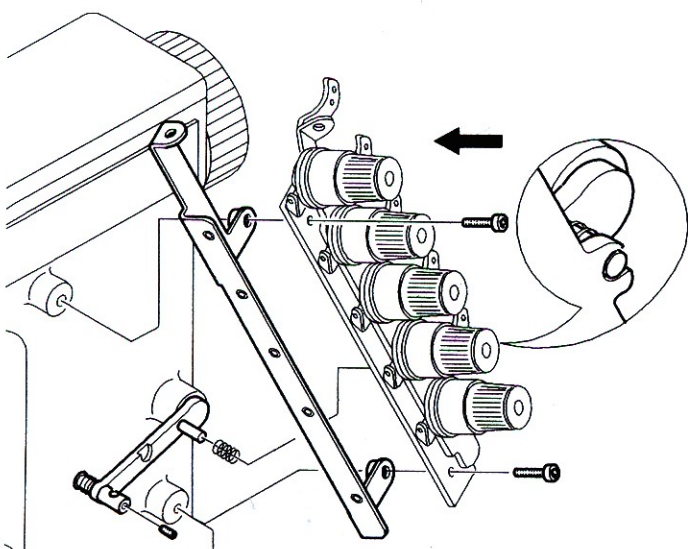
(C).將連軸尾端套上連桿,螺絲先不鎖緊,

Hitch the end of coupling axle by coupling rod, don't lock the screw now.



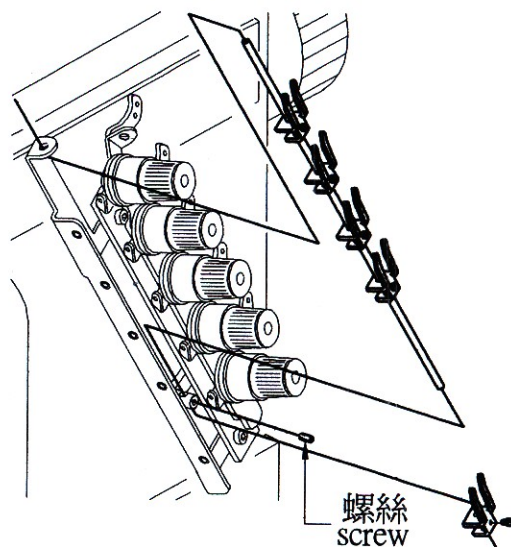
(D).裝上張力調整組及鬆線固定座。

Assemble the tension adj. set & slack thread fixed seat.



(E).放鬆螺絲，將提升軸穿過連軸及固定座。

Loosen the screw. Pass the lifting shaft through coupling axle & fixed seat.



(F).1.由連軸前端向下壓至最低。

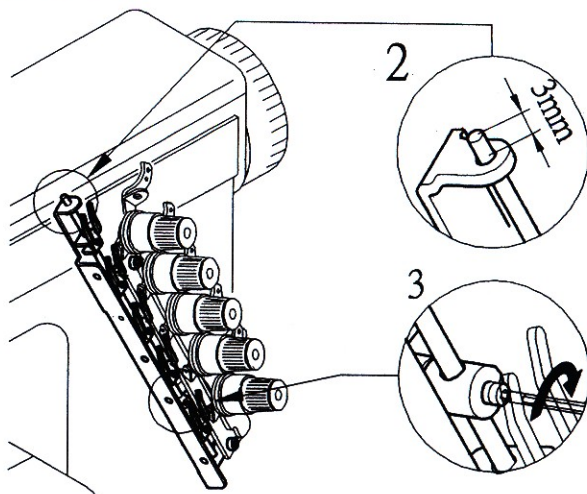
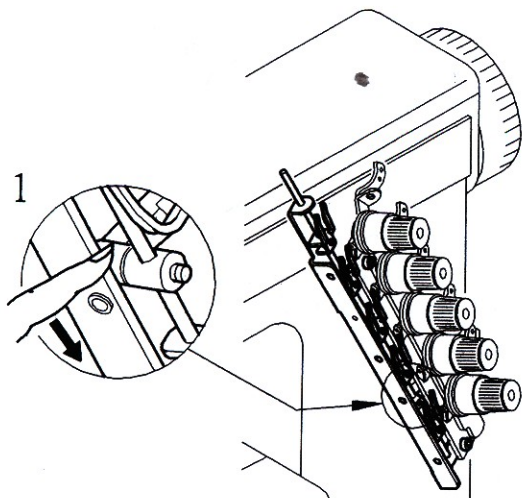
2.使提升軸突出固定座3mm。

3.螺絲鎖緊。

1. Press down the front of coupling axle to the lowest.

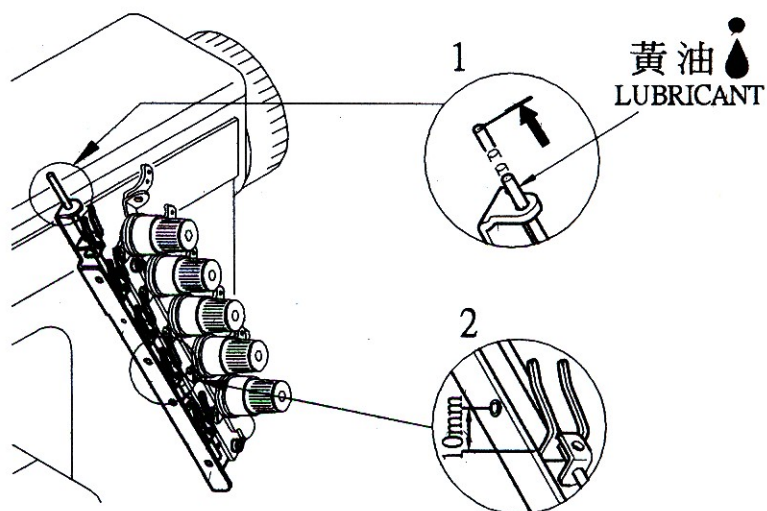
2. The lifting shaft should be over the fixed seat 3mm.

3. Tighten the screw.

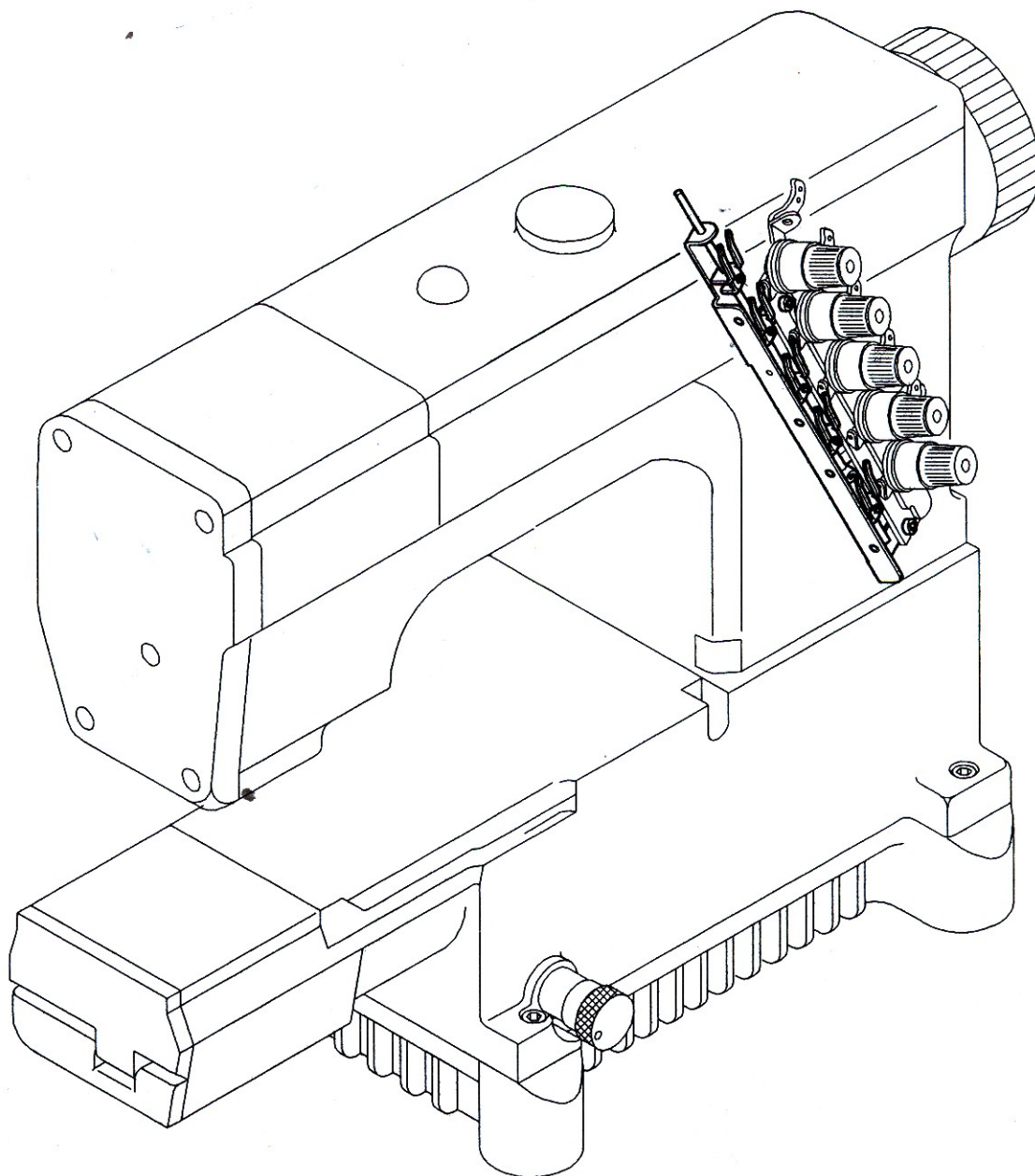


- (G).1.將提升軸推到最高點。
2.固定鬆線鉤距離旁邊的圓孔上方10mm。

- 1.Push the lifting shaft to the top position.
2.Fix the slack thread hook on top position of the hole 10mm distance.

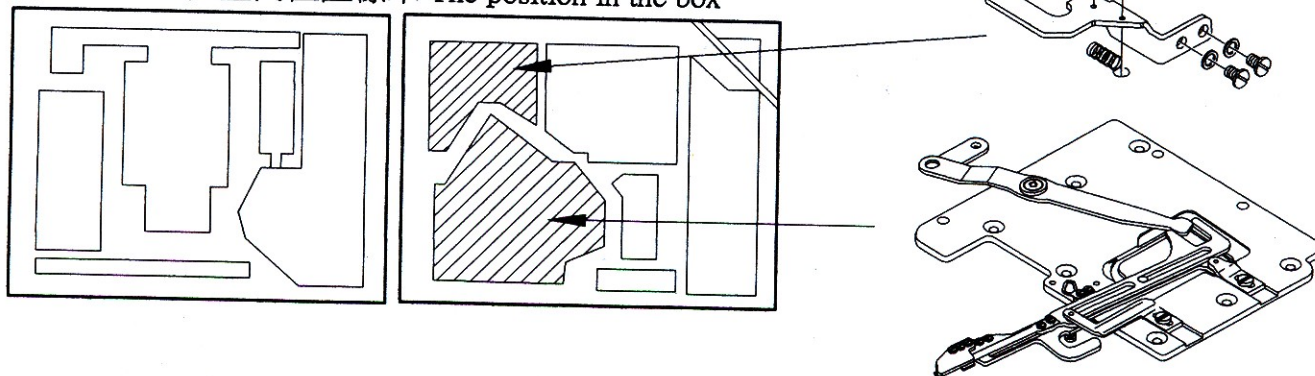


●安裝位置示意圖 Installation description chart.



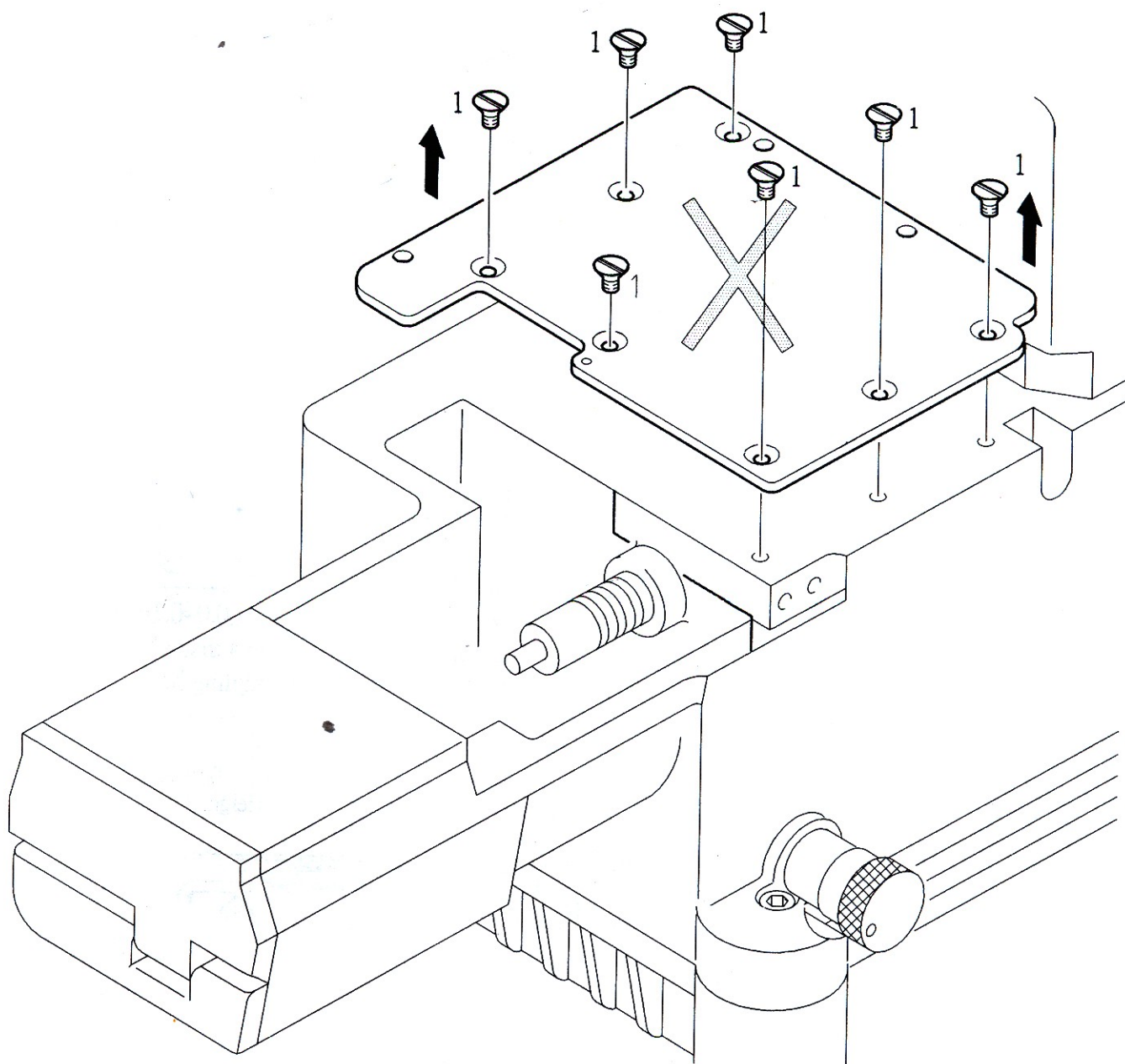
(二).安裝下刀組 Installation the lower blade set

●包裝盒內位置標示 The position in the box

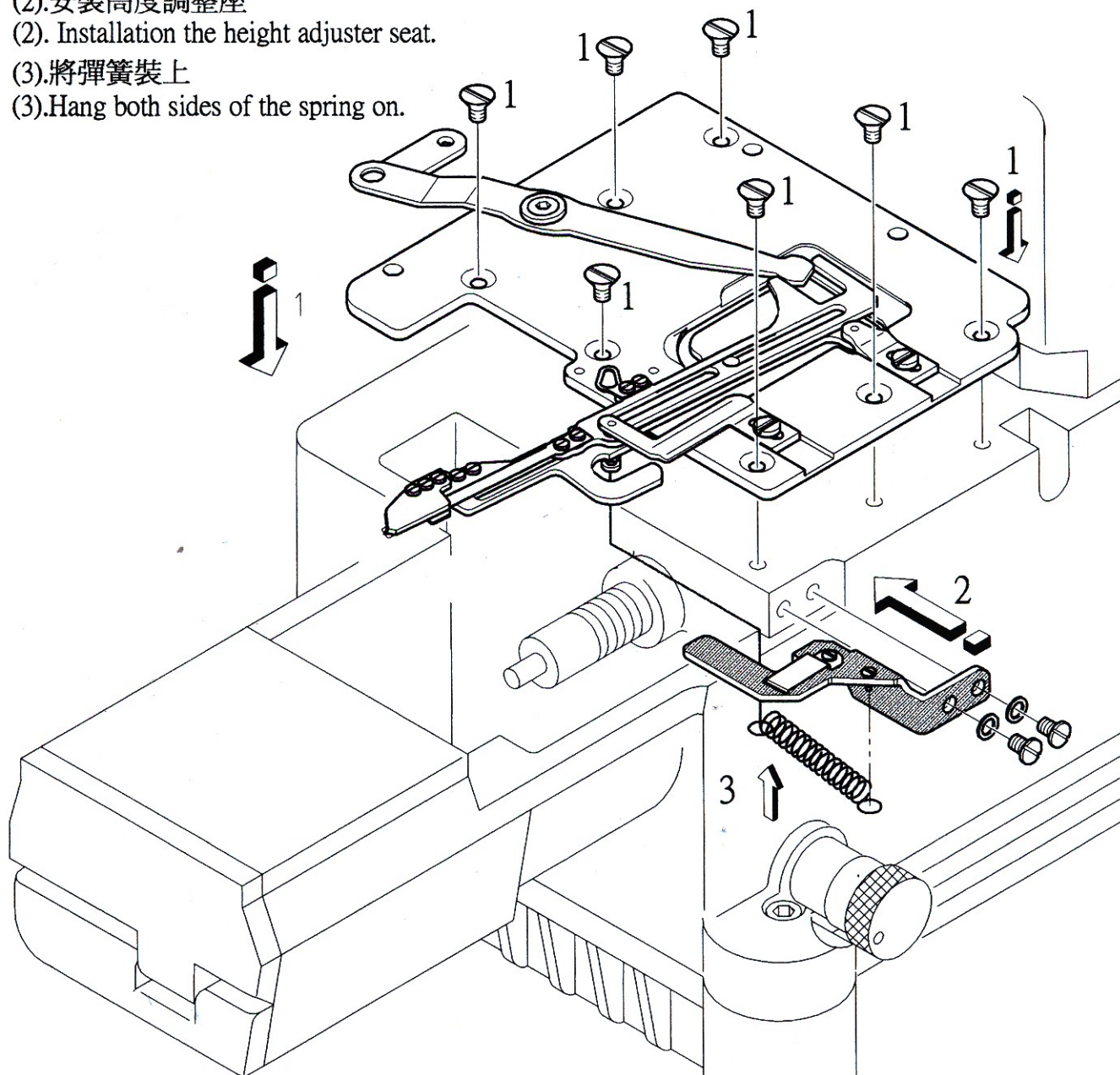


1.取下原有之下軸內蓋.後蓋

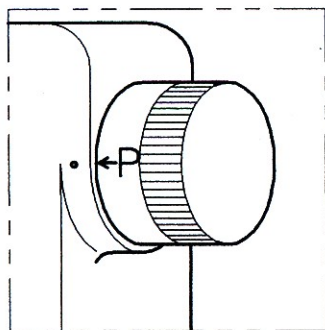
Remove the original axle cover and back cover.



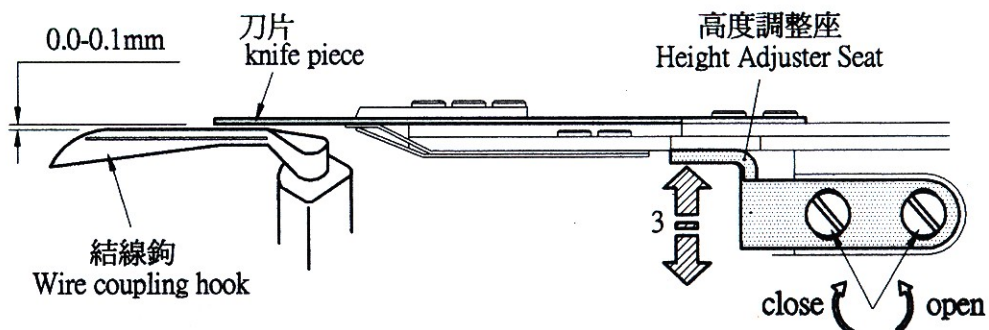
- 2 (1).安裝下刀組
(1). Installation the lower blade set
(2).安裝高度調整座
(2). Installation the height adjuster seat.
(3).將彈簧裝上
(3). Hang both sides of the spring on.



- 3.旋轉圓軸對準P點
3. Swivel the rotatory button on the point "P".



- 4.設定水平托架的高度:使刀片與結線鉤間隙在0.0~0.1mm之間
4. Adjusting the height of height adjuster seat: keep a distance of 0.0~0.1mm between the knife piece and wire coupling hook.

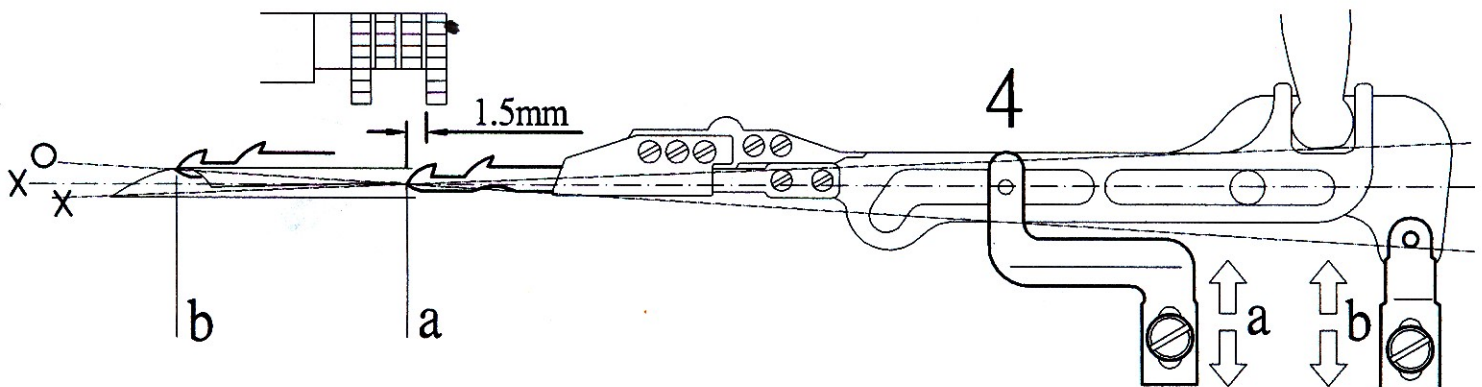
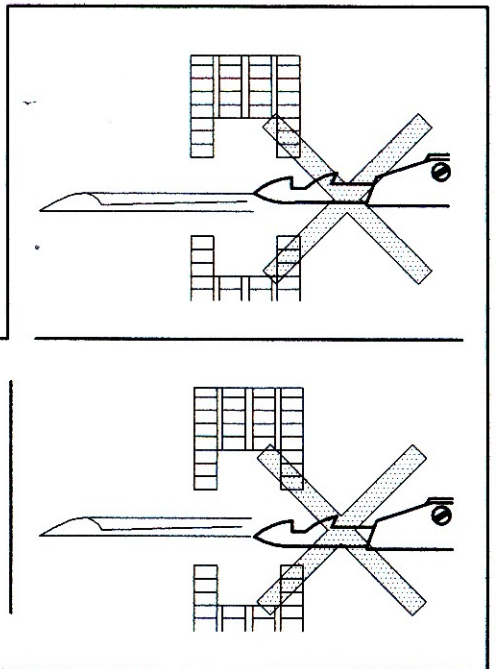
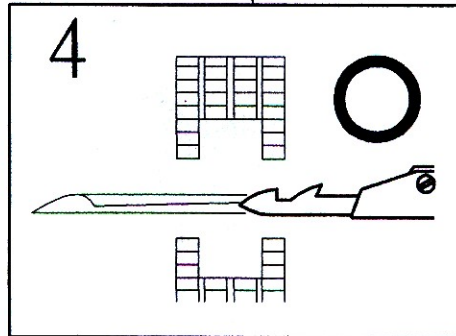
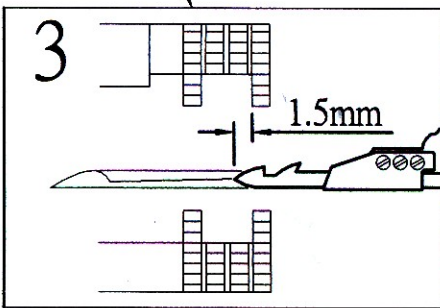
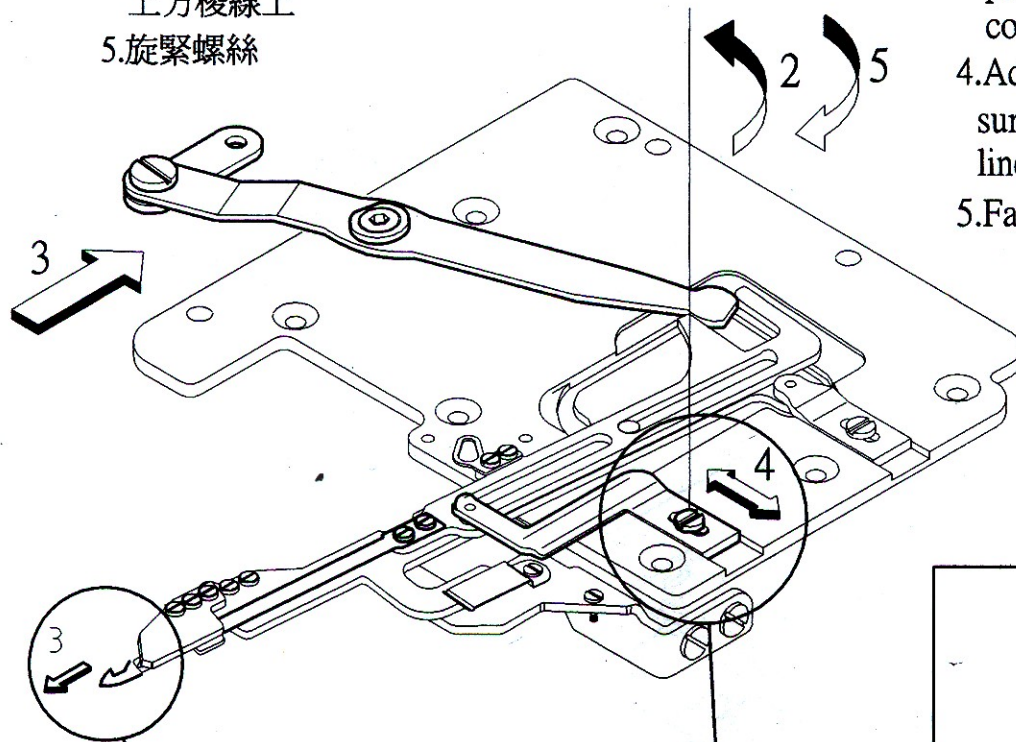


細部調整說明:

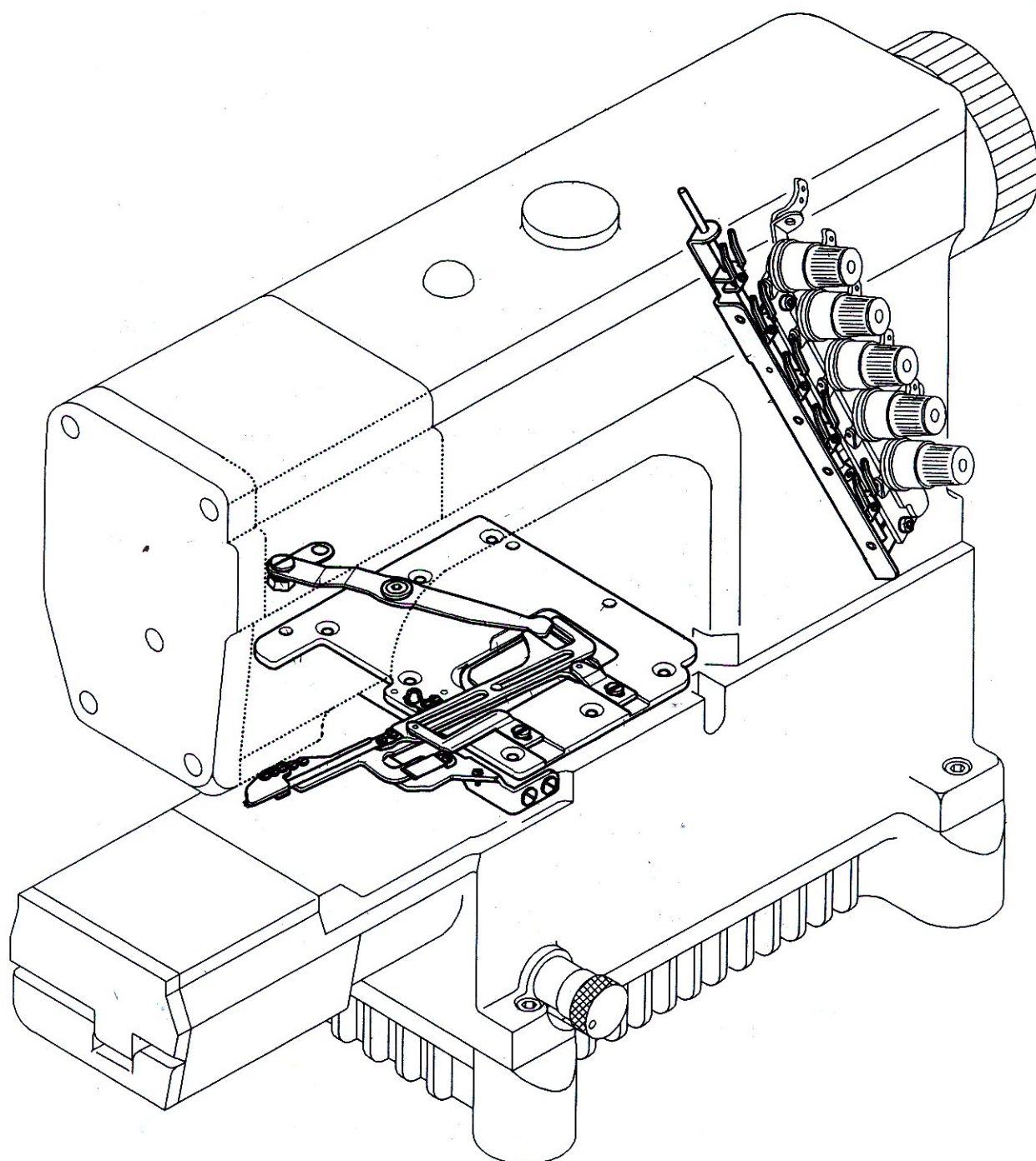
1. 將彈簧裝上
2. 放鬆螺絲
3. 控制汽缸連接把手使刀尖突出第一排送布齒約1.5mm
4. 調整位置使刀尖位於結線鉤上方稜線上
5. 旋緊螺絲

INSTRUCTION FOR DETAIL ADJUSTMENT

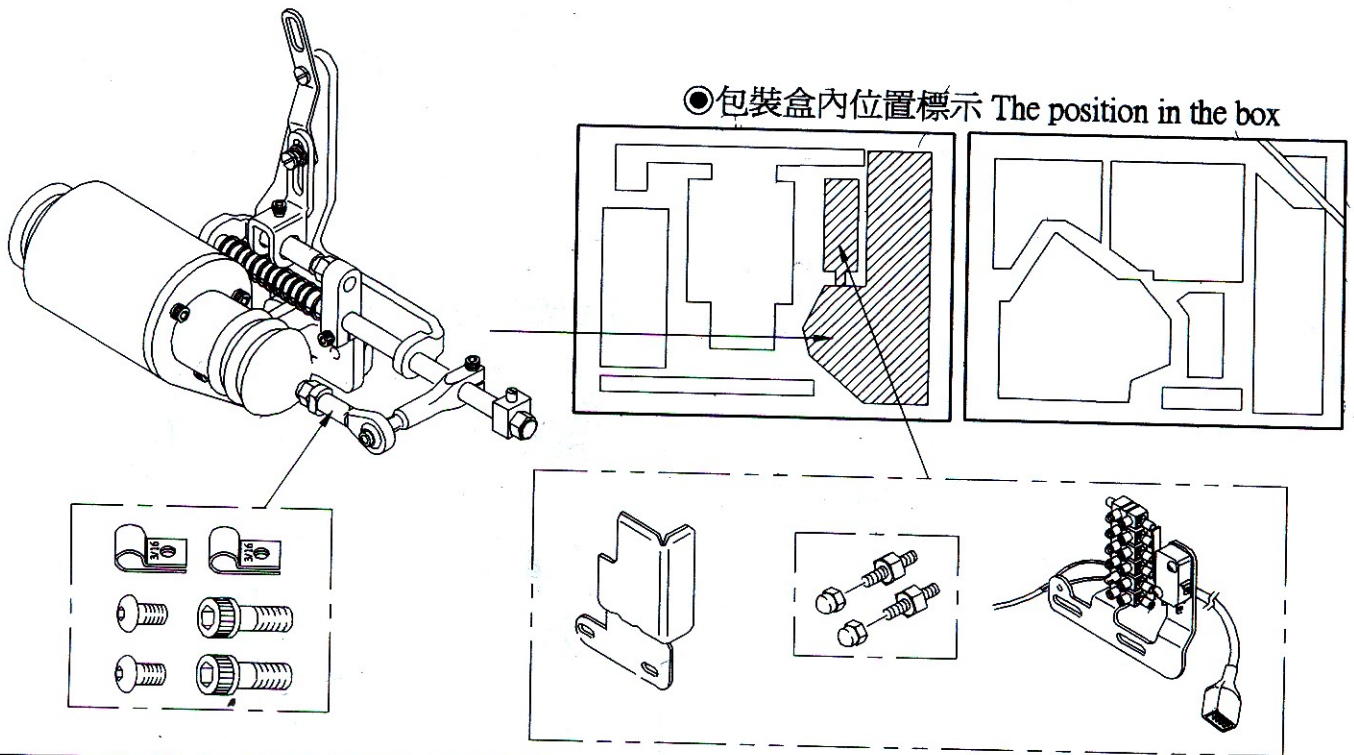
1. Hang both sides of the spring on.
2. Loosen the screw.
3. Control the driving lever and move the razor blade tip to the position of 1.5mm to wire coupling hook.
4. Adjust the position and make sure the razor blade on the peak line up the wire-coupling hook.
5. Fasten the screw.



●安裝位置示意圖 Installation description chart.

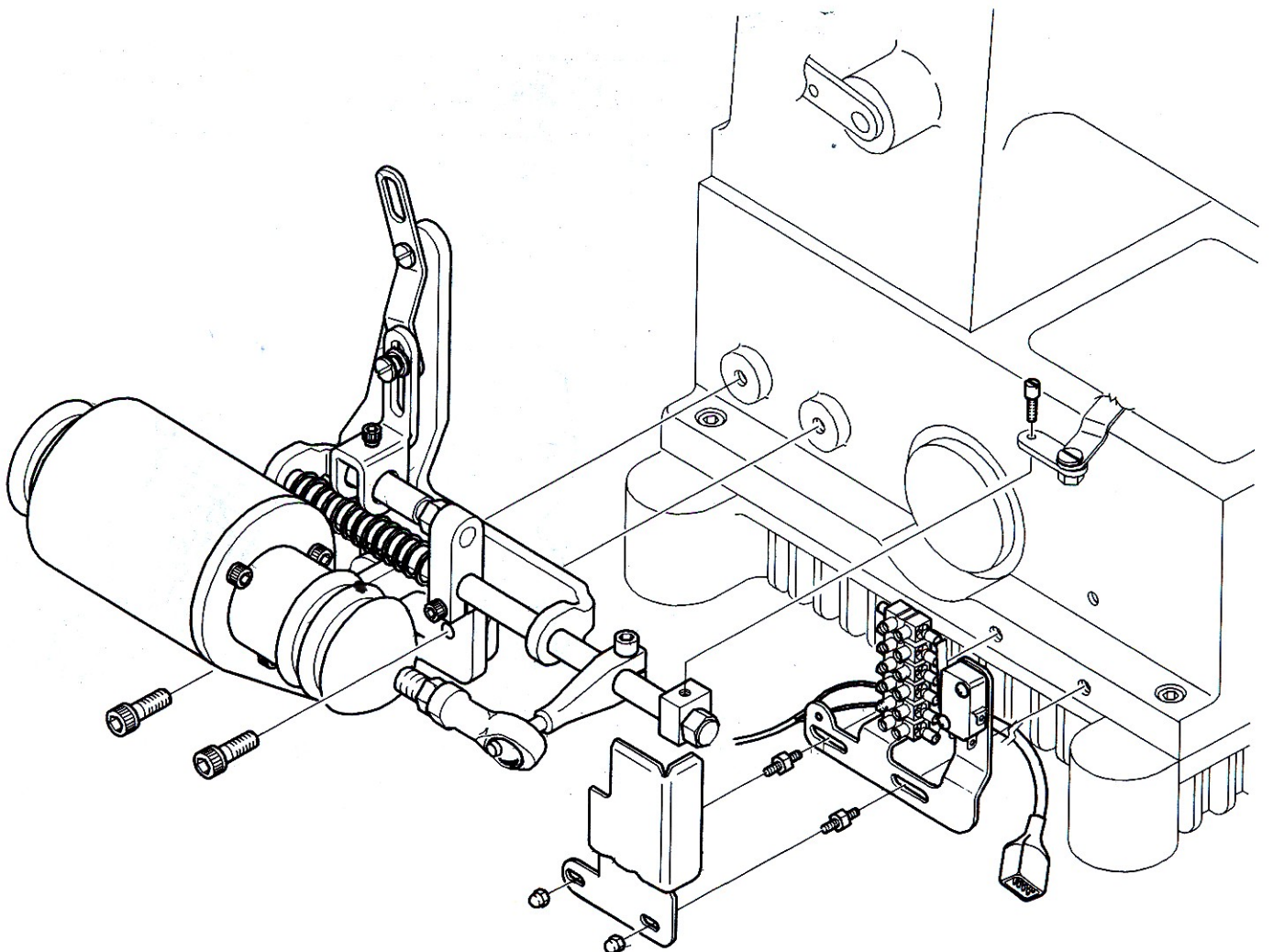


(三).安裝傳動裝置 Installation the gearing

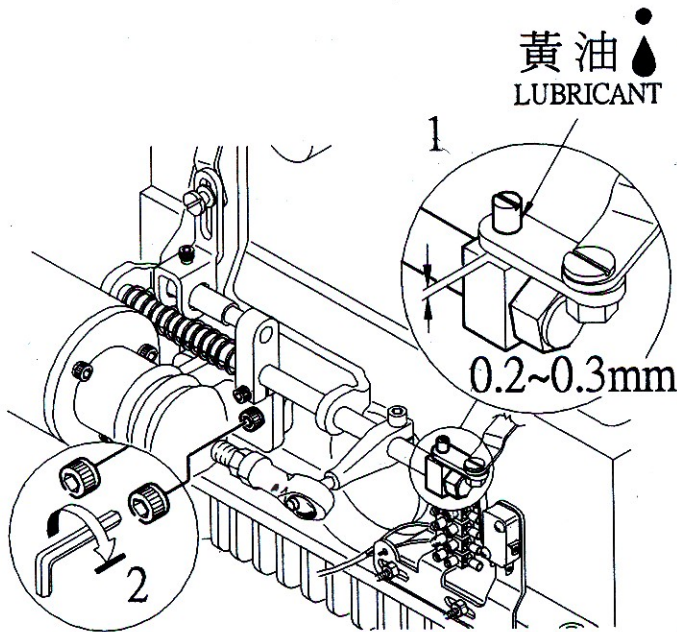


(A).將傳動座固定在車台上並套上下刀連接片。

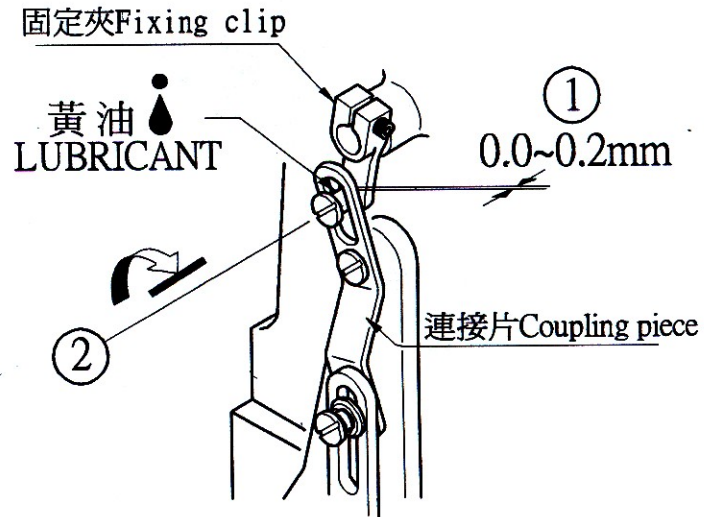
Fix the transmission power seat on machine and hitch the lower knife connection piece.



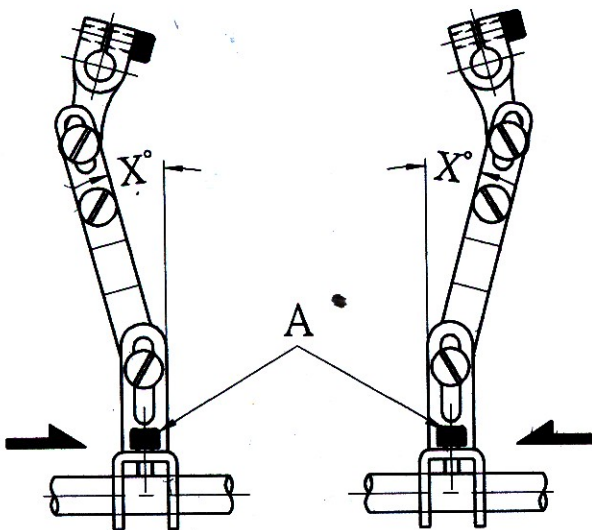
- (B) 1. 確認軸心平面與連接片間隙約0.2~0.3mm
 2. 鎖緊螺絲
 1. Remain the distance of 0.2~0.3mm between the plate surface of the core shaft and the coupling piece.
 2. Fasten the screw.



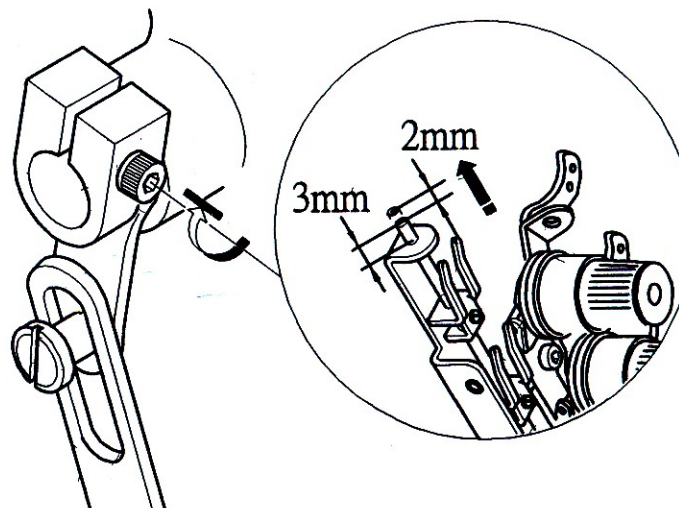
- (C) 1. 裝入連接片調整與固定夾間隙0.0~0.2mm
 2. 鎖緊螺絲
 1. Insert the coupling piece and adjust the position about 0.0~0.2mm with the fixing lip.
 2. Fasten the screw.



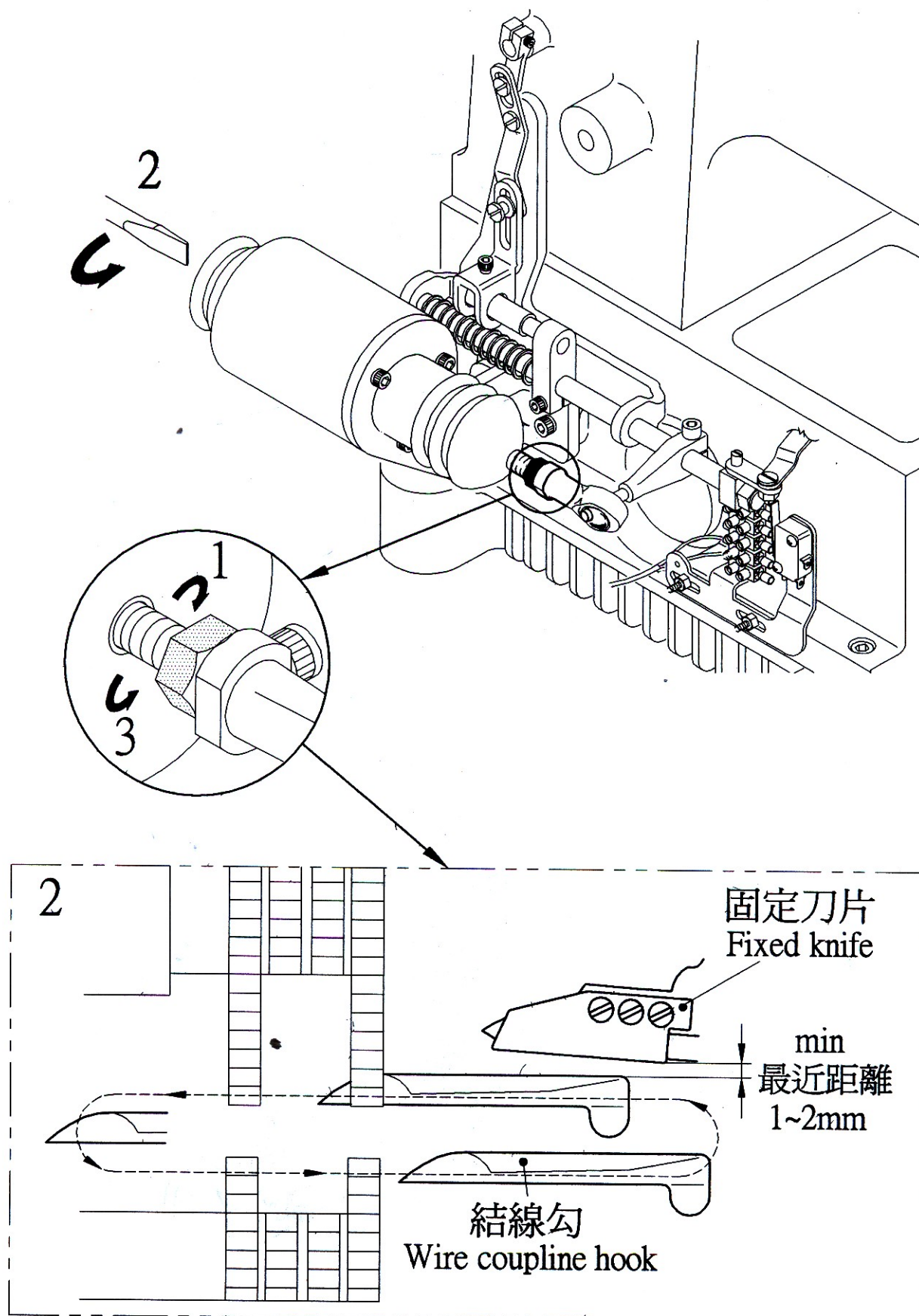
- (D) 放鬆"A"螺絲調整定位座,使角度X°相等
 Loosen screw "A" and adjust positioning seat to make same angle(see X°)



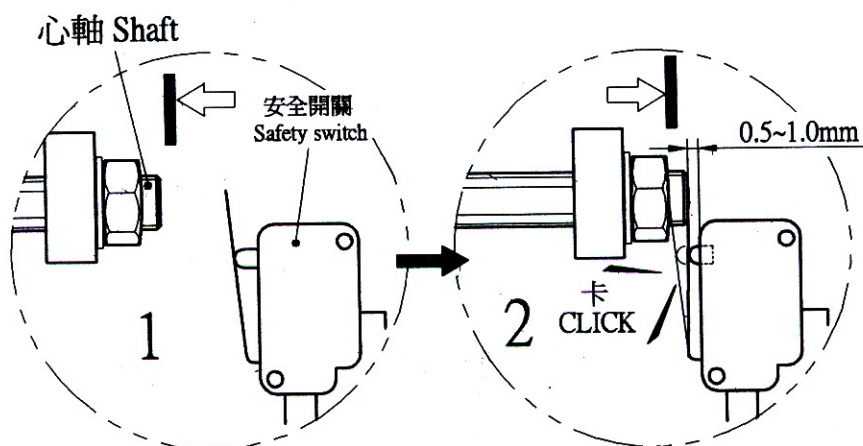
- (E) 將鬆線導桿推到底再回推2mm後鎖緊螺絲
 Push the slack wire lifting shaft until to end and then push back 2mm and fasten the screw.



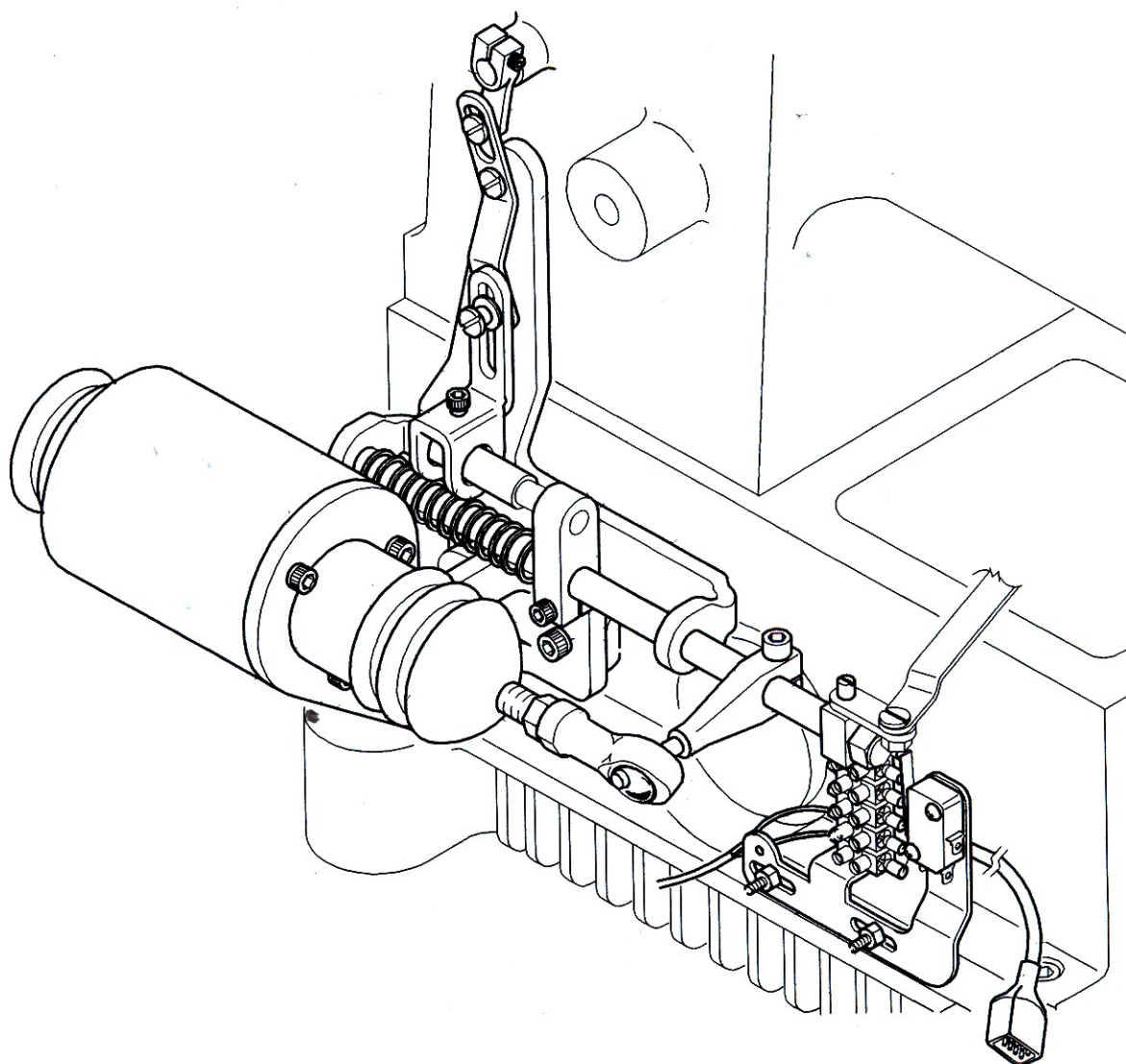
- (1).放鬆螺帽 (2).以一字起子旋轉心軸調整所需之間距:以固定刀片與結線勾之間距1~2mm為最佳 (3).鎖緊螺帽
 (1). Loosen the screw. (2).Adjust the lower thread trimmer position by swirling the core shaft within the slotted screw drive:
 The distance (1~2mm) between fixed knife and wire coupling hook is the best. (3). Fasten the screw.



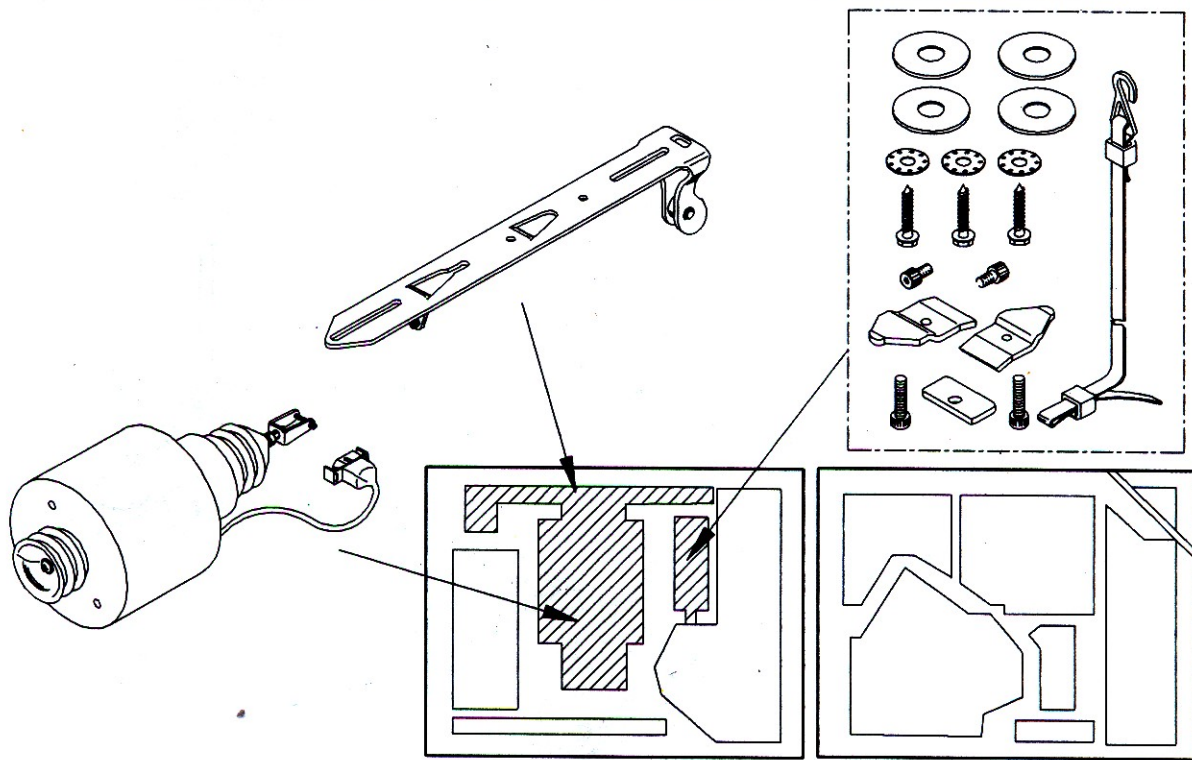
- (F) 1.將軸心往外拉到底 2.確認軸心撞擊安全開關後馬達為關閉的狀態
 1. Move the core shaft to the strofse terminal 2.Touch to the strike piece of close remote safety switch , to make sure the motor close remote safety switch is closed.



●安裝位置示意圖 Installation description chart.



(四).提升壓腳裝置 Lifting foot press operation introduction

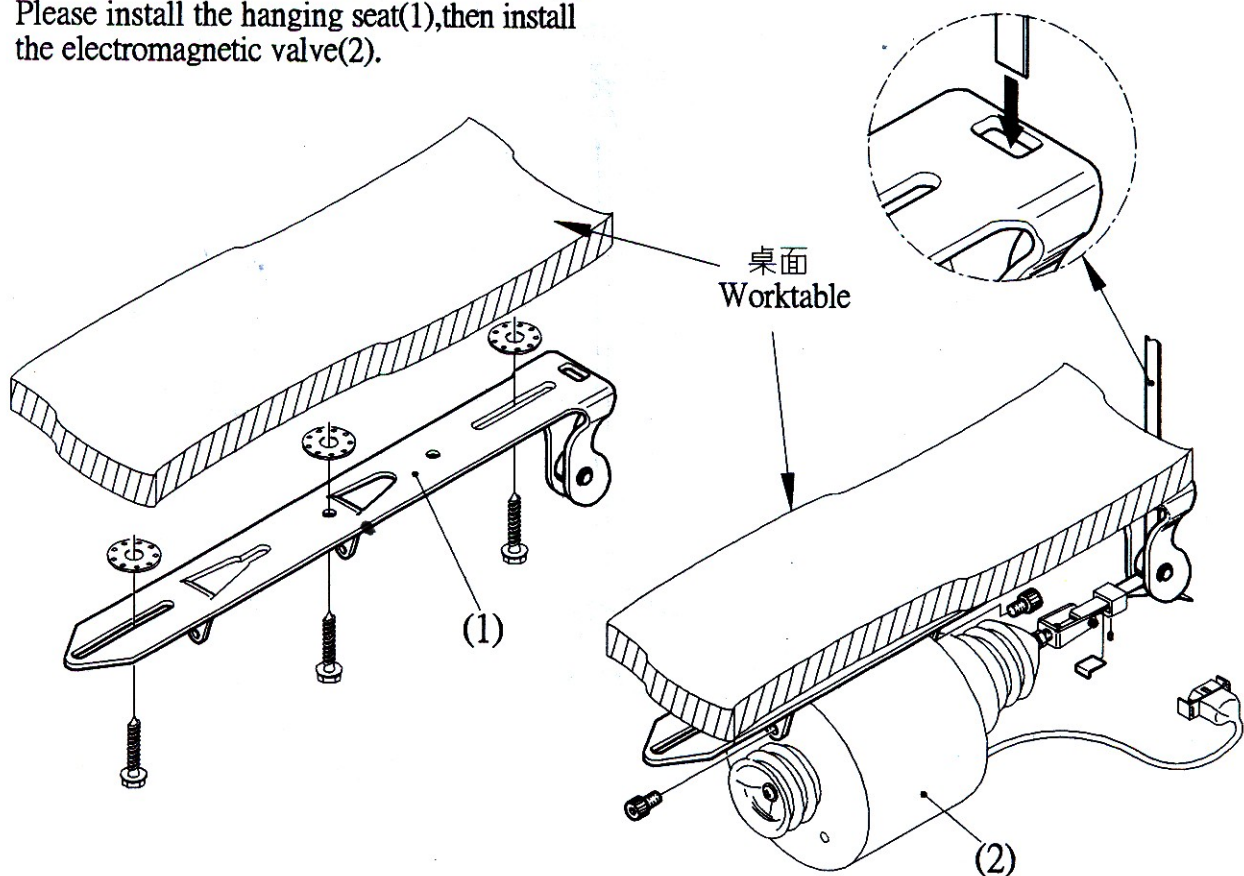


●包裝盒內位置標示 The position in the box

●安裝位置示意圖 Installation description chart

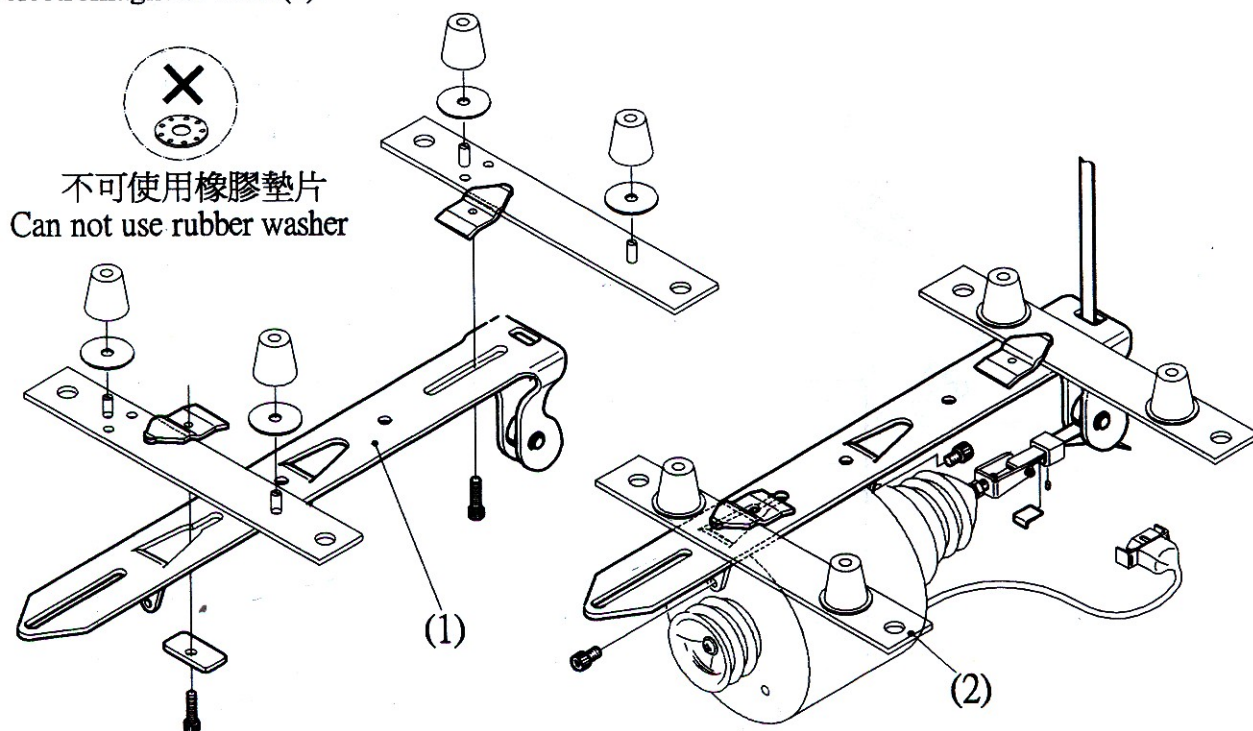
A.上載式Top dress type

請先安裝掛座(1)後再安裝壓腳電磁閥(2)
Please install the hanging seat(1), then install the electromagnetic valve(2).

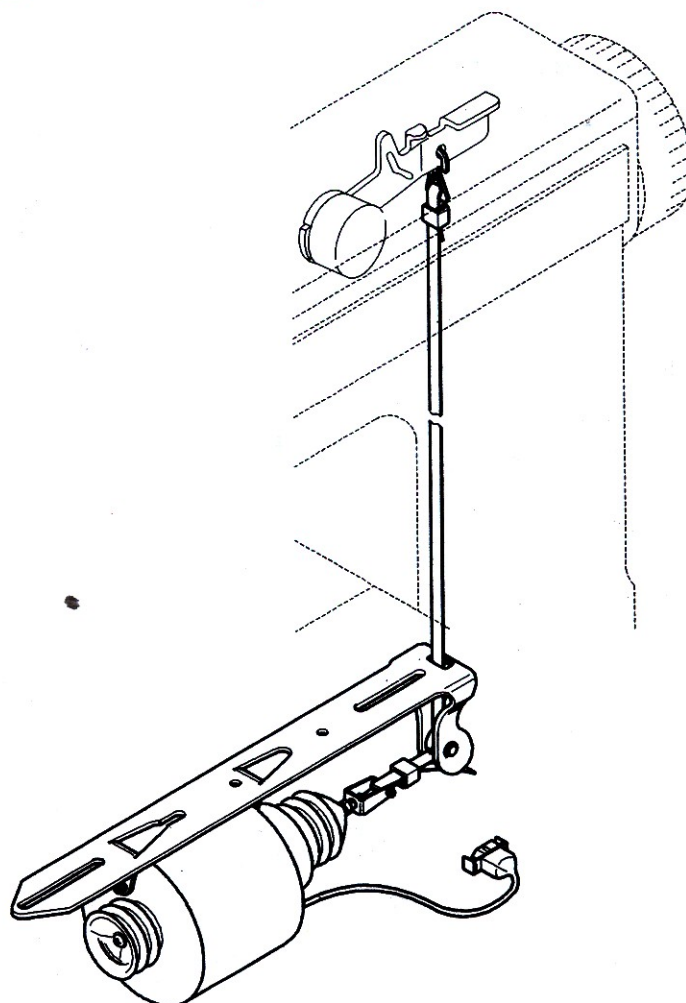


B. 下沉式Diving type

請先安裝掛座(1)後再安裝壓腳電磁閥(2)
Please install the hanging seat(1), then install the
electromagnetic valve(2)



●安裝位置示意圖Installation description chart.



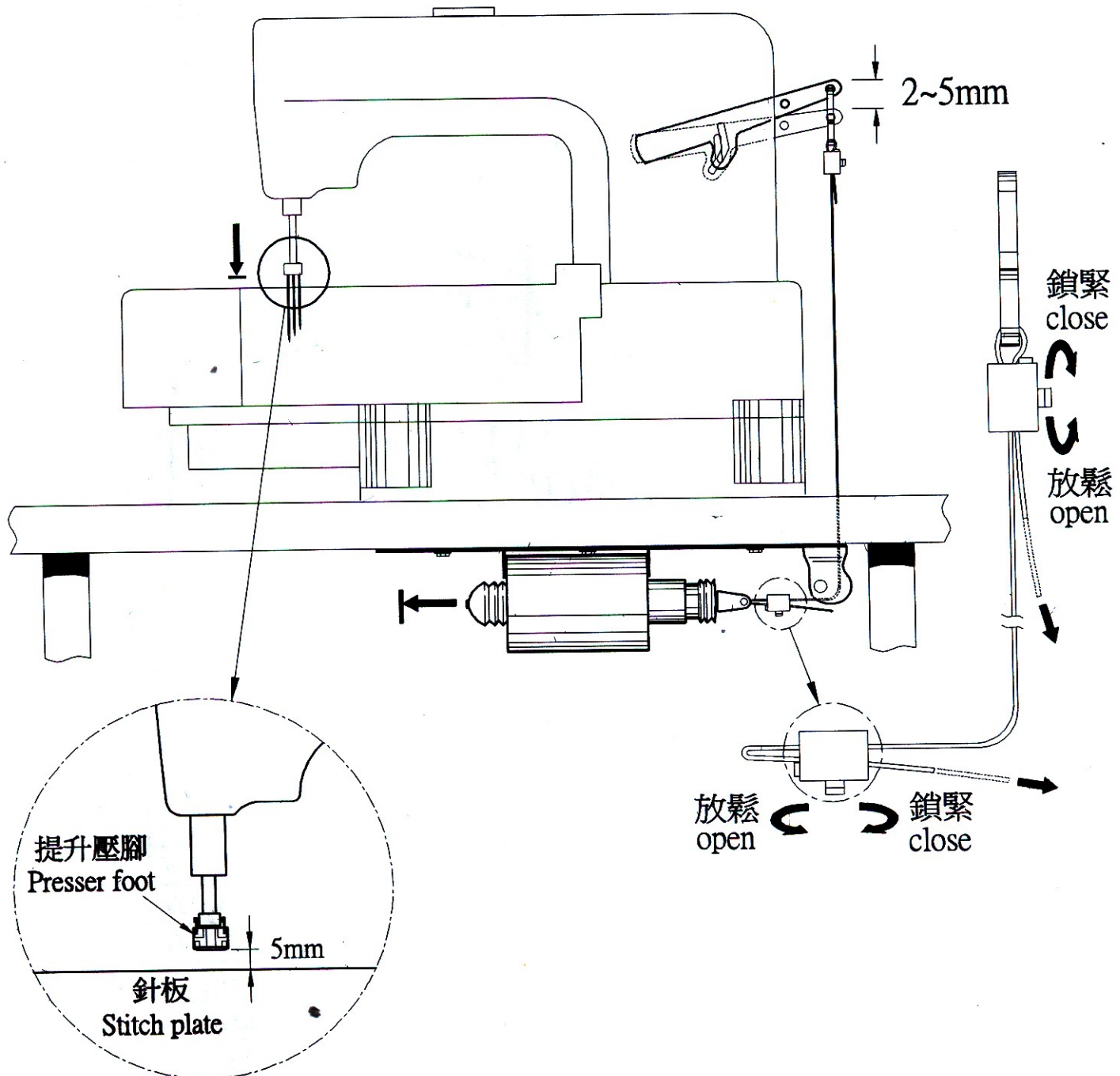
●安裝注意事項：Instruction of installation

1. 皮帶拉直時需與板面成垂直狀態,不可與車頭板發生摩擦。

Although the belt is pulled straight, should keep a vertical position with the plate plane & don't interrupt with the carriage head plate.

2. 調整皮帶長度:當針的位置行駛到最底部時,押腳板仍有約2~5mm的緩衝空間。

Adjust the belt length: when the needle work to the bottom, the lever still have space for 2~5mm.

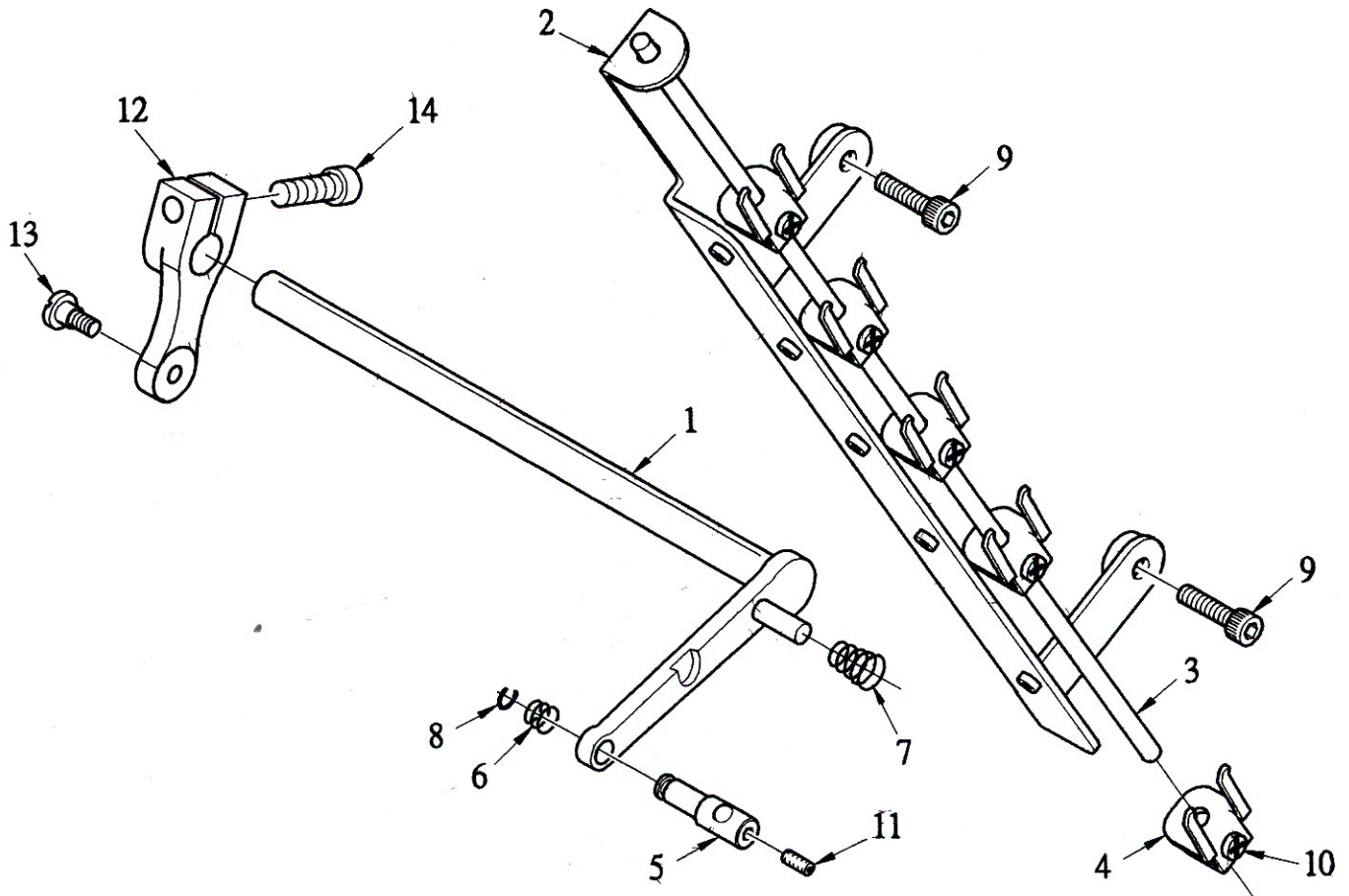


第二部 SECOND PART

零件分析圖表
COMPONENT ANALYSIS CHART

TT-鬆線裝置分析圖

TT-Detail drawing of the slack thread device



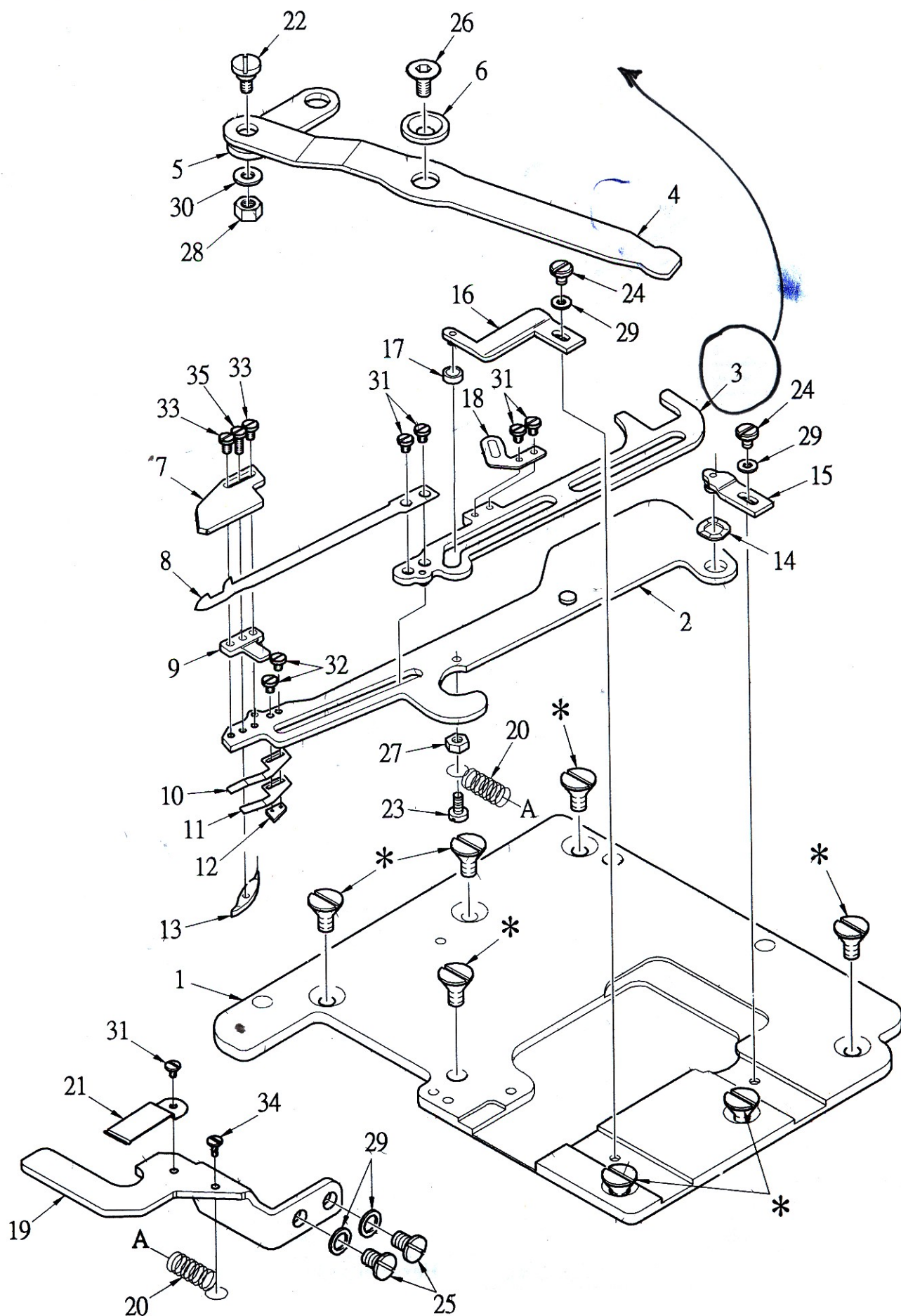
TT-鬆線裝置分析表

TT-The section list for the slack thread device

序 號 Ref.No.	物料編號 Part.No.	名 稱 Description	單位用量 Amt.Req.
1	VC2700E-TT01	連桿 Coupling rod	1
2	VC2700E-TT02	固定座 Fixed seat	1
3	VC2700E-TT03	鬆線提升軸 Slack wire lifting shaft L:230	1
4	VC2700E-TT04	鬆線勾 Thread guide hook unit	5
5	VC2700E-TT05	活動軸 Movable shaft	1
6	VC2700E-TT06	彈簧(短) Spring (Short)	1
7	VC2700E-TT07	彈簧(長) Spring (Long)	1
8	E-4	扣環 Retaining ring	1
9	SW0109	六角承窩螺絲 Hexagon socket screw M4x16	2
10	SW1001	十字平頭螺絲 Crossed flat head screw M3x6	5
11	SW0502	六角承窩固定螺絲 Hexagon socket grub screw M3x3	1
12	VC2700E-UTE06	連桿 Coupling rod	1
13	CB003-3	一字平頭螺絲 Flat head slot screw M4x5-L2.5	1
14	SW0108	六角承窩螺絲 Hexagon socket screw M4x14	1

UT--下刀切線機構零件分析圖

UT--DETAIL DRAWING OF UNDER TRIMMER COMPONENTS



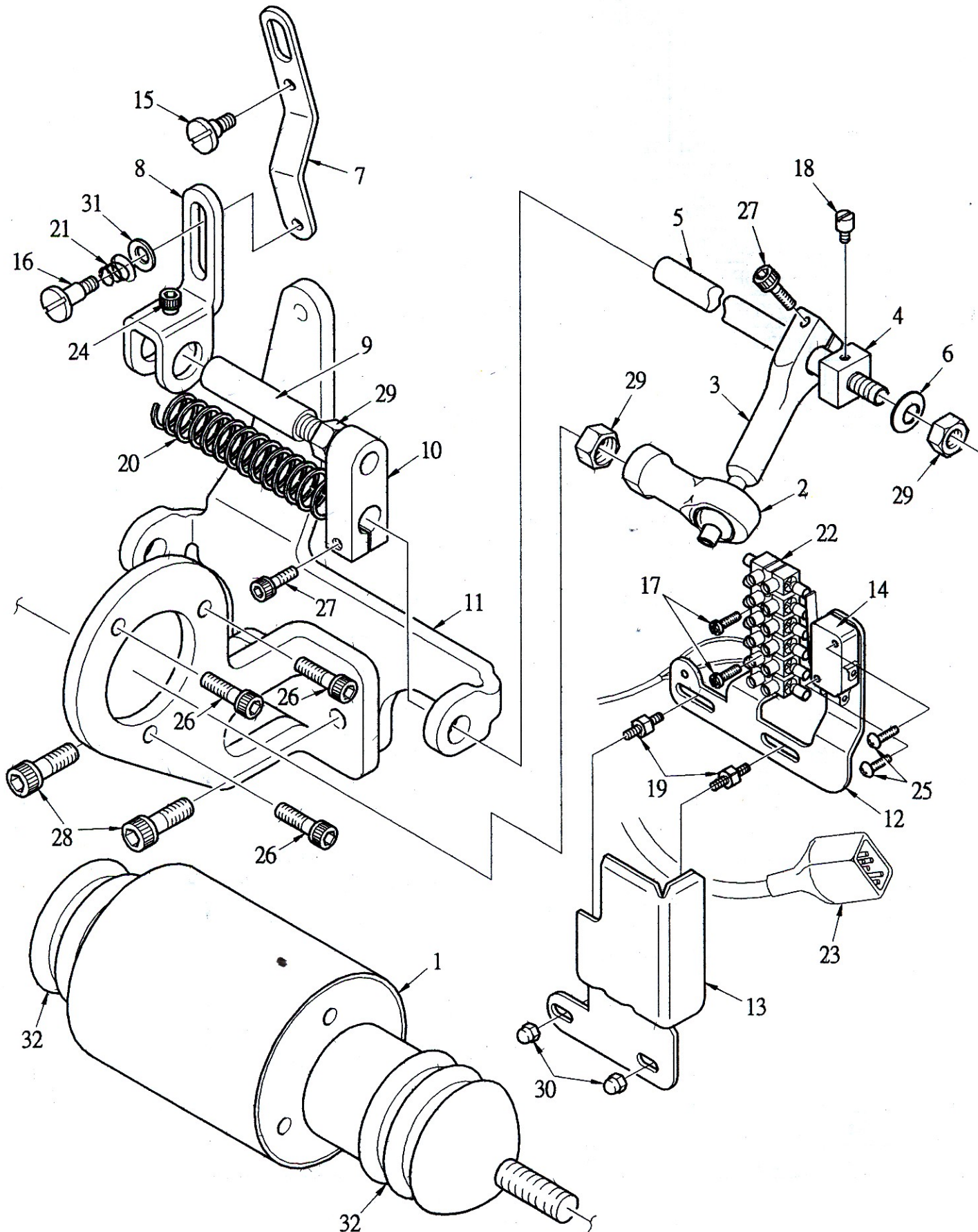
UT-下刀切線機構零件分析表

UT-Section list of the under trimmer components

序 號 Ref.No.	物料編號 Part.No.	名 稱 Description	單位用量 Amt.Req.
*	*	盤頭螺絲 Dish screw	7
1	VC2700E-UT01	下軸內蓋 Crank chamber cover	1
2	VC2700E-UT02	固定刀座 Lower knife holder	1
3	VC2700E-UT03	活動刀座 Movable lower knife holder	1
4	VC2700E-UT04	驅動臂 Driving lever	1
5	VC2700E-UT05	連接片 Coupling piece	1
6	VC2700E-UT06	隔環 Ring	1
7	VC2700E-UT07	固定刀片 Fixed knife	1
8	VC2700E-UT08	活動刀片 Lower movable knife	1
9	VC2700E-UT09	滑道 Lower movable knife guide	1
10	VC2700E-UT10	簧片(一) Clamp spring piece(1)	1
11	VC2700E-UT11	簧片(二) Clamp spring piece(2)	1
12	VC2700E-UT12	簧片固定座 Clamp spring piece fix seat	1
13	VC2700E-UT13	壓力調整片 Pressure adjusting piece	1
14	VC2700E-UT14	波浪墊圈 Wave washer	1
15	VC2700E-UT15	固定片 Fixed piece	1
16	VC2700E-UT16	定位座 Positioning seat	1
17	VC2700E-UT17	套環 Bush	1
18	VC2700E-UT18	鬆線片 Slack thread piece	1
19	VC2700E-UT19	高度調整座 Height Adjuster Seat	1
20	FD-025-05	拉伸彈簧 Spring $\phi 0.4 \times L13$	1
21	KU06-1	壓緊簧片 Impacting spring	1
22	CB003-2	一字平頭螺絲 Flat head slot screw (M5)	1
23	SW0301	一字平頭螺絲 Slotted flat head screw M3x5	1
24	SW0302	一字平頭螺絲 Slotted flat head screw M4x4	2
25	SW0304	一字平頭螺絲 Slotted flat head screw M4x6	2
26	SW0403	盤頭螺絲 Dish screw M4x6	1
27	SW0601	六角螺帽 Hexagon nut M3	1
28	SW0603	六角螺帽 Hexagon nut M5	1
29	SW0702	盤形墊圈 Dish washer M4	2
30	SW0703	盤形墊圈 Dish washer M5	1
31	SW0801	一字平頭螺絲 Slotted flat head screw 3/32-56x2	5
32	SW0802	一字平頭螺絲 Slotted flat head screw 3/32-56x4	2
33	SW0803	一字平頭螺絲 Slotted flat head screw 3/32-56x5	2
34	SW0804	一字平頭螺絲 Slotted flat head screw 3/32-56x6	1
35	SW0805	一字平頭螺絲 Slotted flat head screw 3/32-56x8	1

UTE-傳動裝置分析圖

UTE-Detail drawing of the gearing



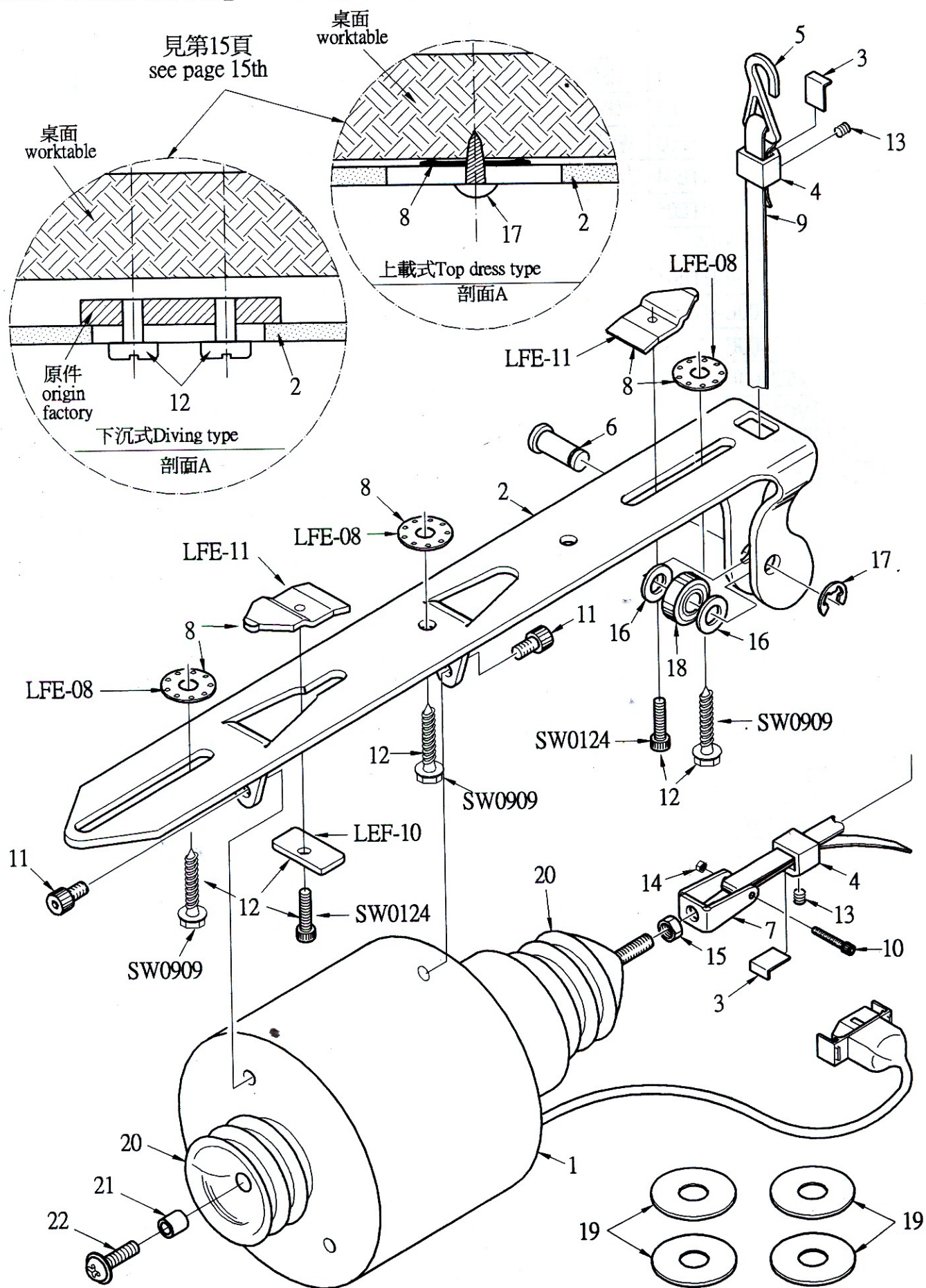
UTE-傳動裝置分析表

UTE-The section list for gearing

序 號 Ref.No.	物料編號 Part.No.	名 稱 Description	單位用量 Amt.Req.
1	VC2700E-UTE01	電磁閥 Electromagnetic valve	1
2	VC2700E-UTE02	連桿端軸承 Coupling rod end bearing	1
3	VC2700E-UTE03	傳動桿固定夾 Drive link positioning clip	1
4	VC2700E-UTE04	方塊連接片 Square connection slice	1
5	VC2700E-UTE05	長軸 Long shaft	1
6	SW0705	墊片 Washer M8	1
7	VC2700E-UTE07	連接片 Connecting plate	1
8	VC2700E-UTE08	定位座 Positioning seat	1
9	VC2700E-UTE09	短軸 Shaft	1
10	VC2700E-UTE10	定位夾 Positioning clip	1
11	VC2700E-UTE11	固定座 Fixed seat	1
12	VC2700E-UTE12	安全開關固定座 Safety switch bracket	1
13	VC2700E-UTE13	保護蓋 Protective cover	1
14	VC2700E-UTE14	安全開關 Safety switch	1
15	CB003-3	一字平頭螺絲 Flat head slot screw M4x5-L2.5	1
16	CB003-4	一字平頭螺絲 Flat head slot screw M4x5-L7	1
17	SW0901	螺絲 Screw M3x10	2
18	W5031	柱栓 Slot screw	1
19	FE928	特製螺絲 Special screw	2
20	SUN-01	壓縮彈簧 Compression spring ϕ 1.2	1
21	W5025	錐形彈簧 Cone spring ϕ 0.5(短)	1
22	EP-6P	配電盤 Electrical panel	1
23	EW-6P	六角電線 6 Connection Electric Wire	1
24	SW0106	六角承窩螺絲 Hexagon socket screw M4x10頭車平	1
25	SW0902	螺絲 Screw M3x14	2
26	SW0114	六角承窩螺絲 Hexagon socket screw M5x12	3
27	SW0115	六角承窩螺絲 Hexagon socket screw M5x14	2
28	SW0119	六角承窩螺絲 Hexagon socket screw M6x16	2
29	SW0605	六角螺帽 Hexagon nut M8	3
30	SW0605	六角螺帽 Hexagon nut M4 白鐵	2
31	SW0703	墊片 Washer M5	1
32	PO-168	防塵套 Dust cover	2

LFE-提升壓腳分析圖

LFE-Detail drawing of lifting foot press



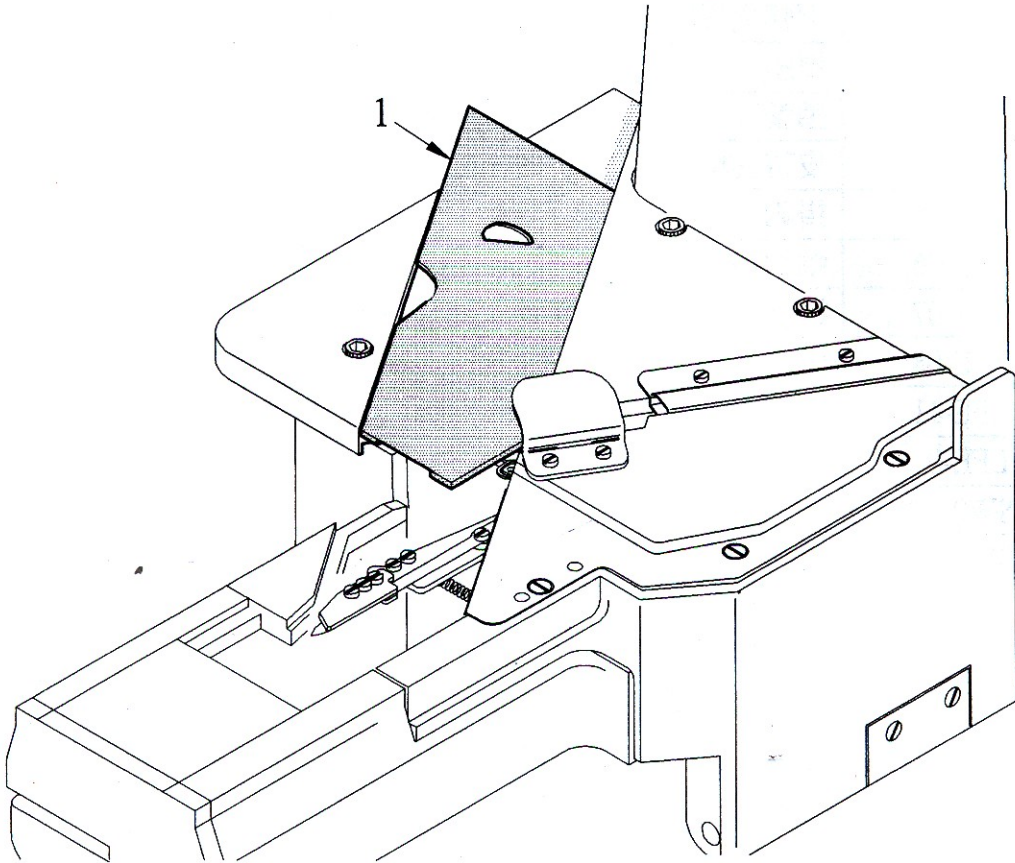
LFE-提升壓腳分析表

LFE-The section list for lifting foot press

序 號 Ref.No.	物料編號 Part.No.	名 稱 Description	單位用量 Amt.Req.
1	LFE-01	壓腳電磁閥 Electromagnetic valve	1
2	LFE-02A	掛座 Hanging seat	1
3	LFE-03	鎖緊片 Lock piece	2
4	LFE-04	皮帶套環 Belt ring	2
5	LFE-05	掛鉤 Hook	1
6	LFE-06	軸承軸 Bearing shaft	1
7	LFE-07	連接片 Connecting plate	1
8	LFE-08	橡皮墊圈 Rubber washer	3
	LFE-11	固定片 Fixed piece	2
9	LFE-09	皮帶 Belt	1
10	SW0103	六角承窩螺絲 Hexagon socket screw M3x20	1
11	SW0113	六角承窩螺絲 Hexagon socket screw M5x10	2
12	SW0124	六角承窩螺絲 Hexagon socket screw M5x16	2
	LEF-10	方形墊片 Square washer	1
	SW0909	六角頭木螺釘 Hexagon wooden screw 10#x1	3
13	SW0503	無頭承窩螺絲 Headless socket screw M4x6	2
14	SW0601	六角螺帽 Hexagon nut M3	1
15	SW0605	六角螺帽 Hexagon nut M8	1
16	SW0708	平墊圈 Machine washer M8	2
17	E-7	E型扣環 E shape retaining $\phi 7$	1
18	NBK-608	軸承 Bearing	1
19	LFE-12	墊片 Washer	4
20	PO-168	防塵套 Dust cover	2
21	LFE-13	墊片 Washer	1
22	SW0103	十字半圓頭螺絲 Crossed semi circle head screw M4x8	1

7.更換活動保護片

Change movable protect piece



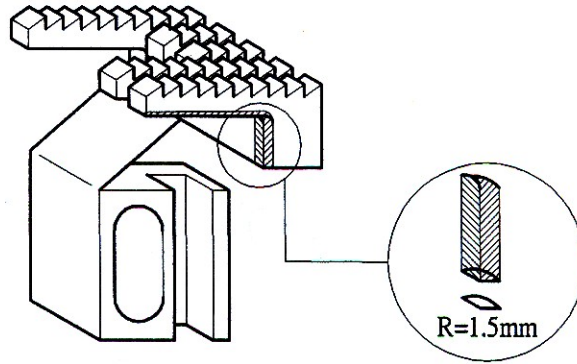
序 號 Ref.No.	物料編號 Part.No.	名 稱 Description	單位用量 Amt.Req.
1	VC2700E-UC01	活動保護片 Movable protect piece	1

※注意事項 CAUTION:

●修正送布齒：Adjust the feed-dog.

將送布齒及活動保護片如圖示磨掉斜線部份

Move out part with black shadow on the feed-dog & movable protect piece must be followed.



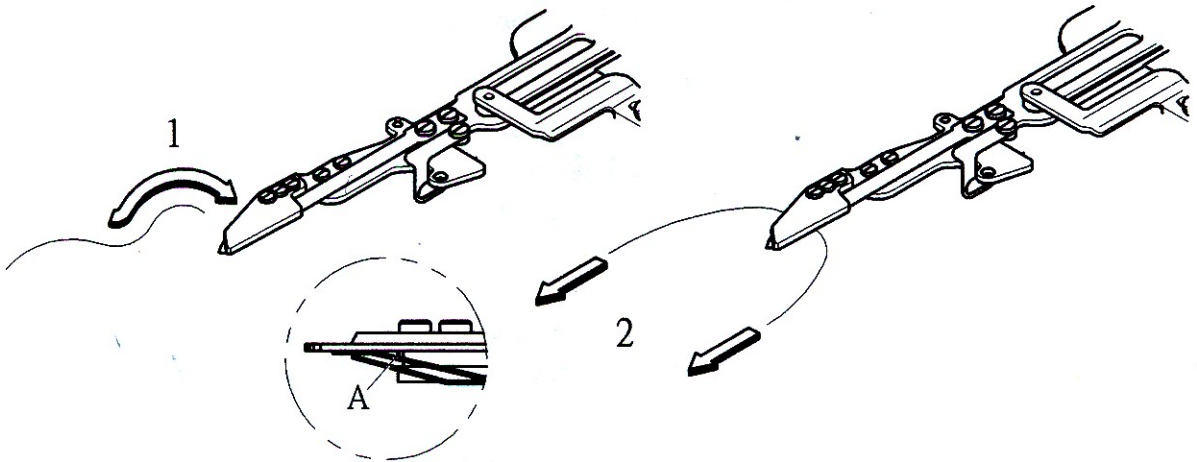
●切刀組線渣清除：Cleaning thread trimmer.

1.取一線段由下圖中之(a)點穿入。

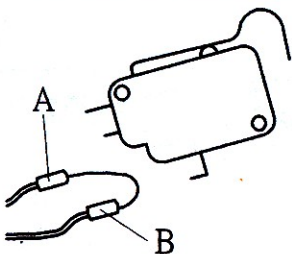
Pass thread through point (a).

2.將線段兩端輕輕向外拉出即可。

Pull the thread slightly back & forth to remove residual.



●狀況Condition----- 馬達不轉Motor stop.



當左圖"A""B"兩線段相接時,若馬達會轉表示安全開關故障;
若馬達仍不動表示馬達故障。

Link up the "A" & "B" wires shown on the left figure, if the motor runs that means the safety switch is out of order, whereas the motor still die that it is broken down.

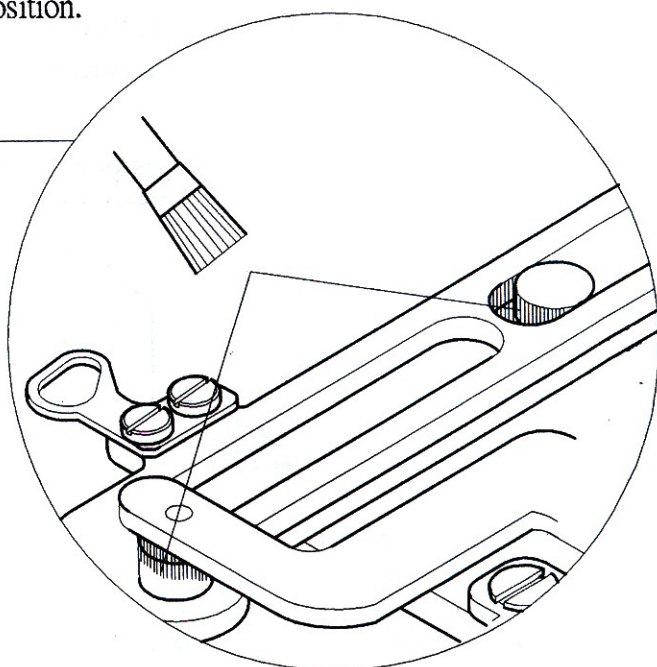
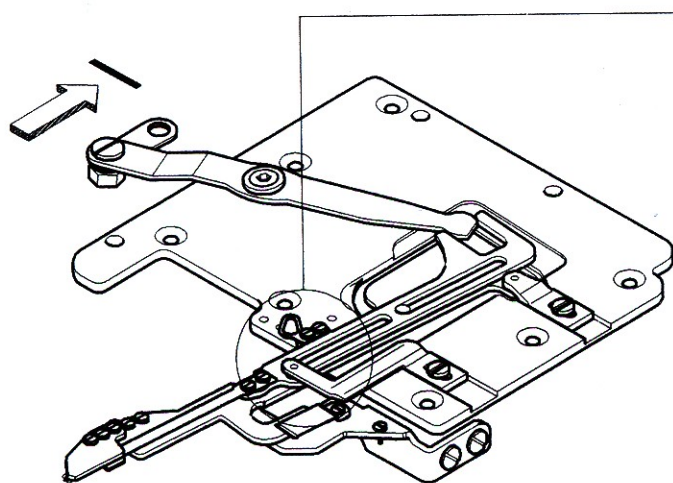
●重要注意事項---下刀棉絮的清理：CAUTION-Cleaning the thread piece

1.移動板手使刀片走到行程一半。

Move the driving lever and make the knife to the half position.

2.清除棉絮。

Clean the thread piece.



※如果發現下刀行程無法完全跑完，就必須清除螺絲下方的棉絮。建議最少3天檢查一次。

※If the lower thread trimmer can't work completely, please clean the thread piece under the screw.

SUGGESTION: Checking one time for three days at least.

●更換下刀組刀片及調整鬆緊度：

Changing the lower thread trimmer and adjusting the tension and relaxation.

1.取下刀組。

2.鬆開螺絲。

3.取下原有刀片。

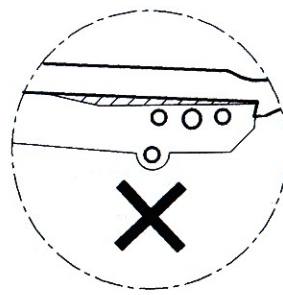
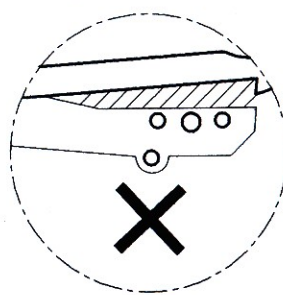
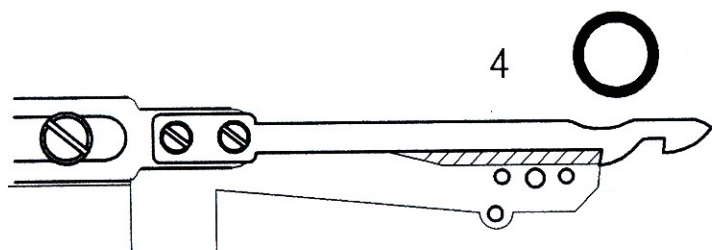
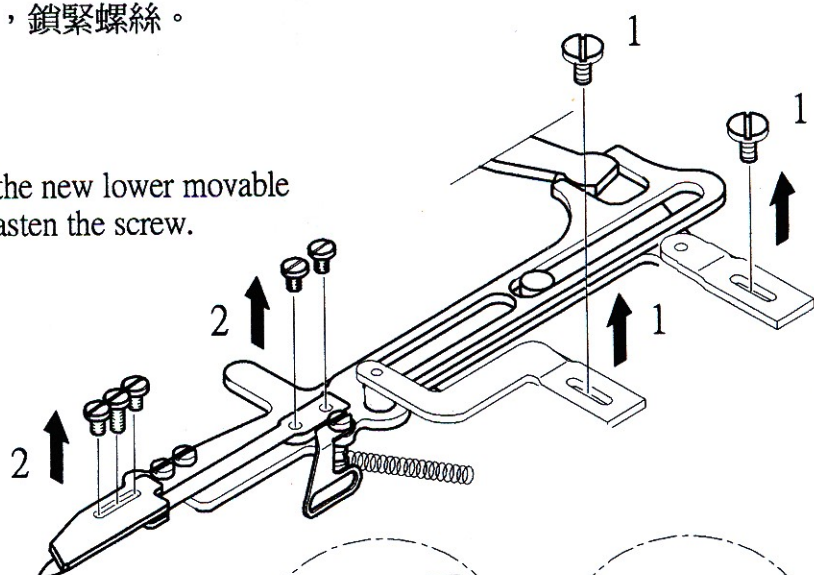
4.將上刀片保持與刀座邊緣呈水平後，鎖緊螺絲。

1.Take off the lower thread trimmer.

2.Loosen the screw.

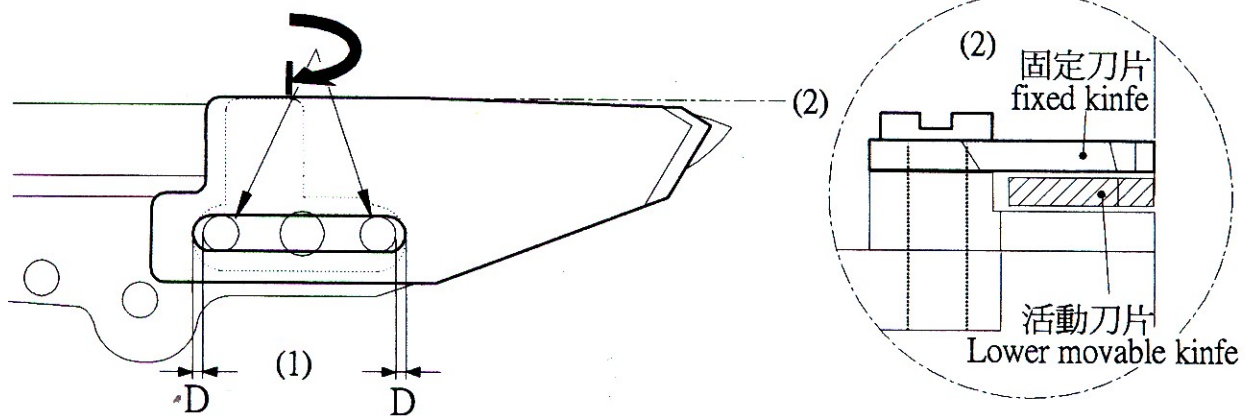
3.Take away the upper and lower knife.

4.Keep the horizontal condition between the new lower movable knife and the new knife carrier. Then fasten the screw.



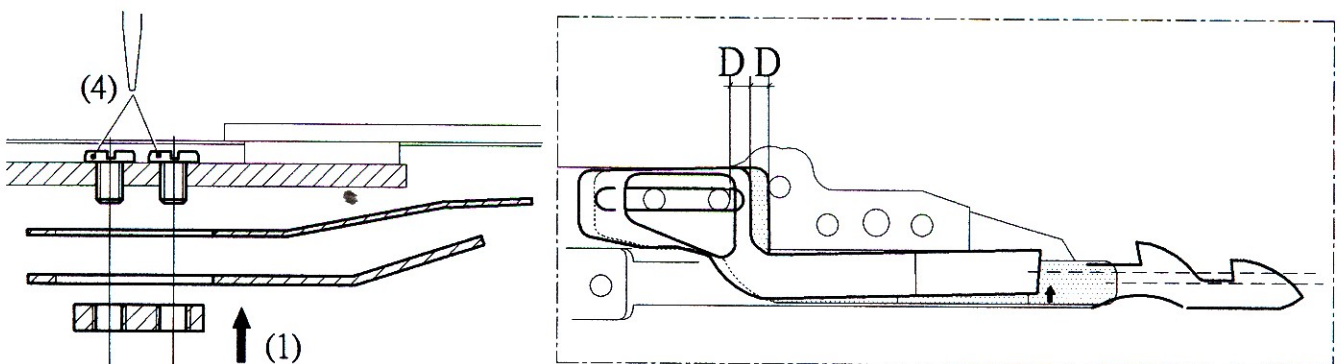
- 5.(1).固定刀片的位置以下圖D值相同為準。
- (2).上下刀片的刀背對齊。
- (3).鎖緊螺絲。

- (1).Make the position of the fixed knife just like the "D" position as the following chart.
- (2).Adjust the back of the lower and upper thread trimmer to let it been a line.
- (3).Then fasten the screw.



- 6.(1).將物件依序裝上。
- (2).二片簧片位置以D值相同為準。
- (3).刀組翻面後將厚的簧片往內推,使其中心線偏離活動刀片中線。
- (4).鎖緊螺絲。

- (1).Install the accessories by sequence as the following.
- (2).The position of both springs is likes the "D" position as the following chart.
- (3).Turn the thread trimmer outside down and then pushing the spring inside to make the center-line deviating from the lower movable knife.
- (4).Fasten the screw.



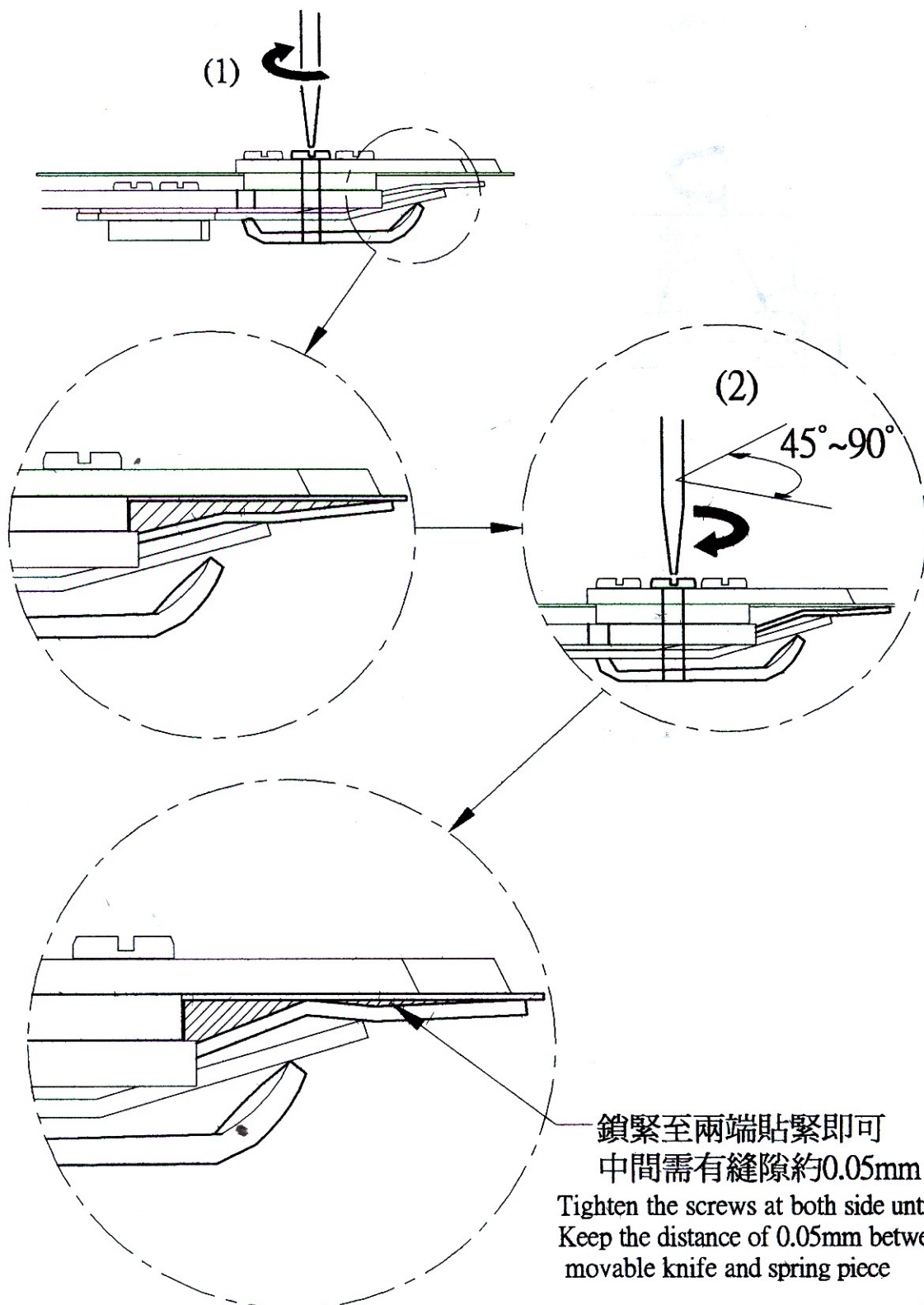
7.裝置簧片並調整夾線緊度 : Installing the spring & Adjust the tension

(1).旋轉螺絲使第一片簧片慢慢與刀片貼齊。

(2).之後再繼續將螺絲旋緊 $45^{\circ}\sim 90^{\circ}$ 。

(1).Swivel the screw and let the first spring keep closing to the knife.

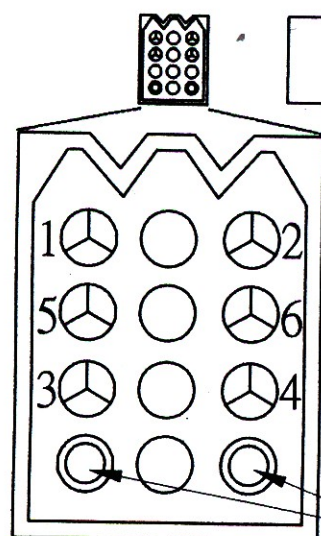
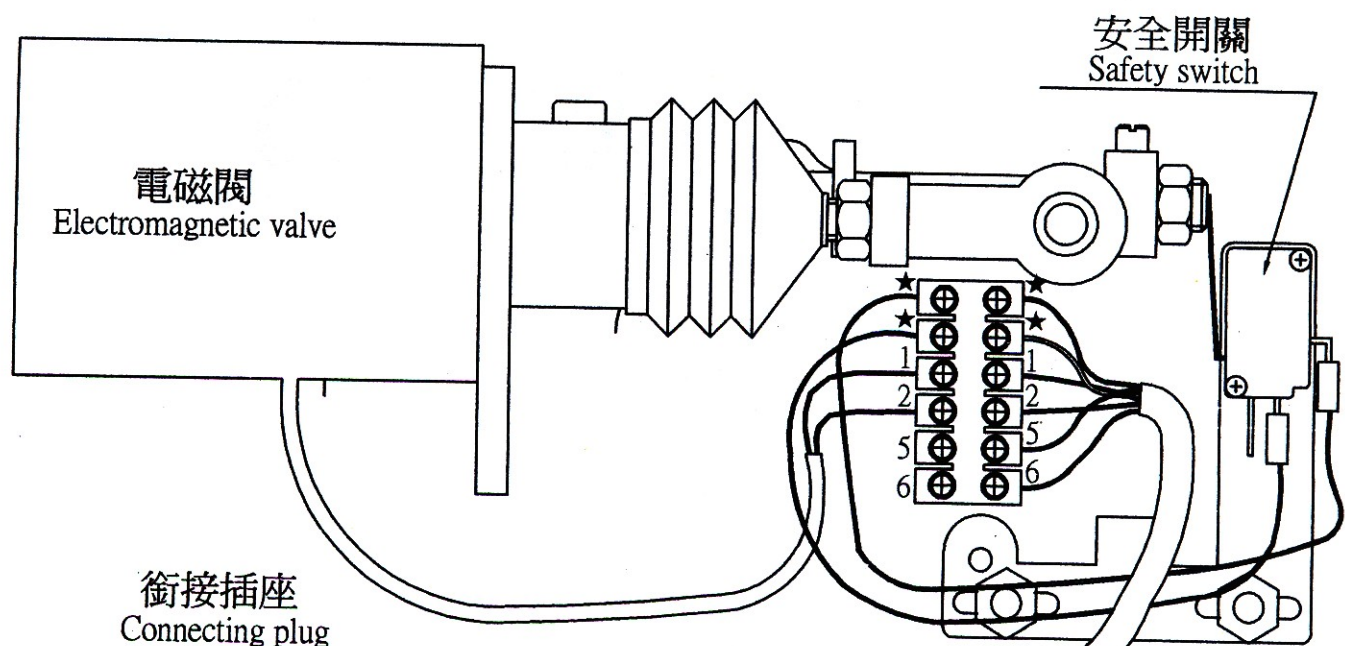
(2).And then fast the screw slowly about $45^{\circ}\sim 90^{\circ}$.



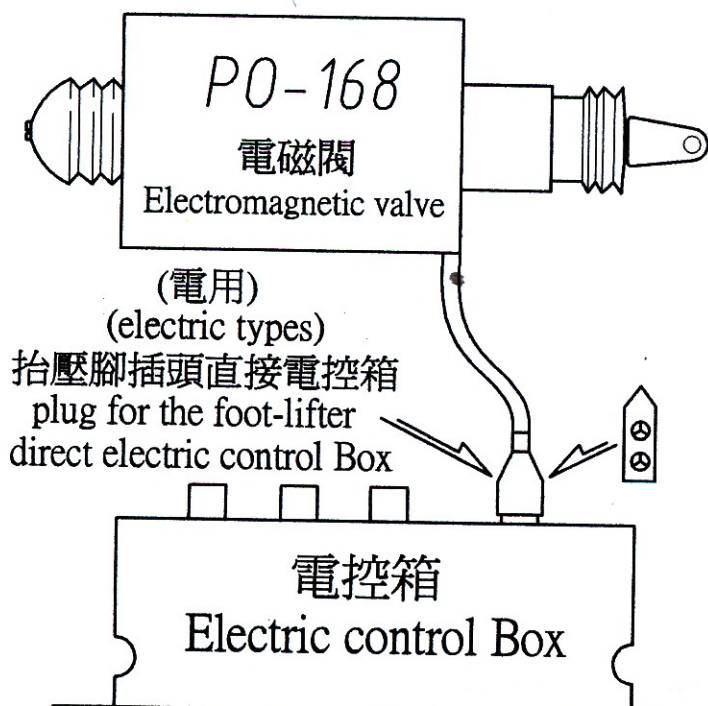
※第二片簧片的位置若放的太前面，將使夾線變的很緊。

※The clip thread will be very tight, if the position of the 2nd spring keeps too front.

<附錄一>線路連接圖示 CIRCUIT CONNECTING DRAWING



- 1,2為UT線路插頭 1,2 are the plugs to UT circuits
- 5,6為WP線路插頭 5,6 are the plugs to EP circuits
- 3,4為氣用氣動抬壓腳用 (不屬於電用) 3,4 are pneumatic types for the foot-lifter (not for electric types)
- ★此符號為安全開關線路 this symbol indicates safety switch circuits



	狀況 Condition 馬達不轉 Motor stop
	將左圖兩電線相接,若馬達會轉表示安全開關故障.若馬達仍不動表示馬達已故障. Link up the two wires shown on the left figure, if the motor runs that means the safety switch is out of order, when the motor is still not working, it is broken down.