



**SHING LING®**  
星菱牌工業用縫紉機  
INDUSTRIAL SEWING MACHINE



## VG-888S Series

細筒型三針五線雙面飾綑縫機

3-needle 5-thread Small Cylinder-bed Interlock Machine with  
Direct-drive Servo Motor (Electric or Pneumatic Type)



零件手冊&使用說明書  
Spare Parts book & Instruction



星菱縫機股份有限公司  
SHING LING SEWING MACHINE CO., LTD.  
CE ISO 9001 / CNS 12681





# VG-888-S

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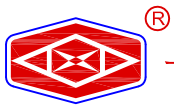
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# 一、使用說明:

# OPERATION GUIDE

## A. 安裝:

### INSTALLATION:

1. 請依本機器所附之各式桌板裁製圖，根據實際上之需求，裁製正確桌板。

Before installing machine, please refer to table cut-out drawing to cut out table correctly.

2. 再依序安裝防震膠墊，或支撐架及其他副件。

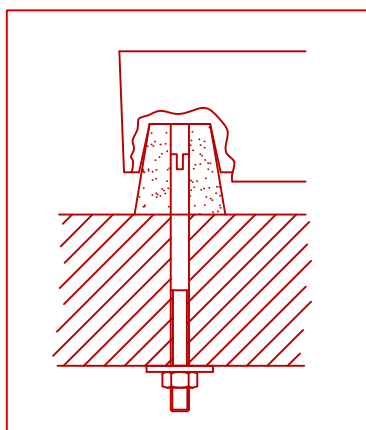
According to the sequence of installation, fix quake-proof, base-fixed plate and other attachments.

### \* 注意:

### Remarks:

- (1) 一般桌板 -  
請依下圖所示順序安裝膠墊支架及防震膠墊。(圖1)

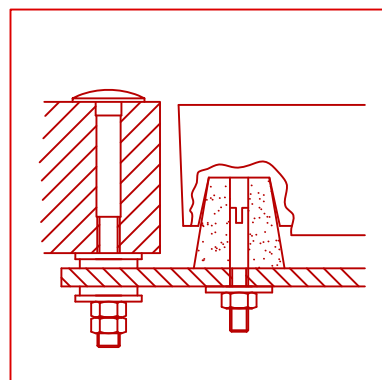
General table -  
According to the sequence of Fig.1, install quake-proof Rubber Cushion and the frame of the Cushion.( Fig. 1 )



(Fig. 1)

- (2) 下沉式桌板-  
請依下圖所示確實安裝機台支架，在安裝膠墊支架及防震膠墊。(圖2)

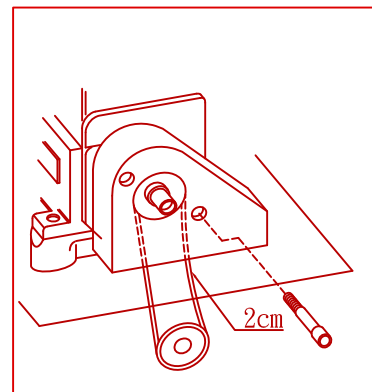
Sinking style table -  
According to Fig. 2 install the machine frame, and again to install the quake-proof Rubber Cushion and the frame of the Cushion. ( Fig. 2 )



(Fig. 2)

3. 馬達之轉向為順時鐘方向，皮帶之鬆緊度以用手指向內壓 2cm 為一般標準，同時為了安全起見，請將上、下皮帶蓋蓋上。(圖3)

Be sure that the Motor turning direction is clockwise, and the Motor Belt tension can be pressed with finger inward 2 cm. For safety reason, please fasten the Belt Cover. ( Fig. 3 )



(Fig. 3)

4. 皮帶輪相對轉速與皮帶尺寸請參照表1。

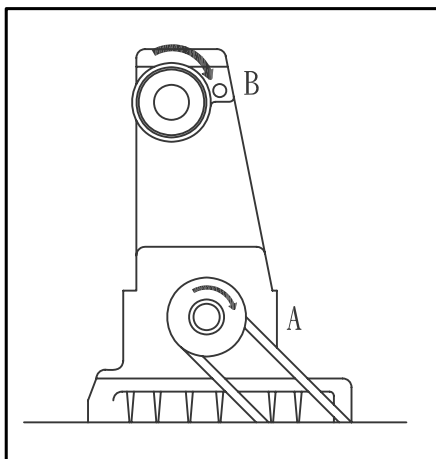
本機最高的車縫速度為每分鐘6,000轉，一般轉速為每分鐘5,500轉(於裝上皮帶輪後，最高轉速為4500轉，一般轉速為4000轉)。爲了提高機台使用壽命，新機於開始使用的前200小時(約1個月)內，其轉速切勿超過每分鐘5000轉。(圖4)驅動輪與皮帶軸之轉向皆爲順時鐘方向。

For machine's long-life and durable operation, it is recommended that the maximum speed shouldn't exceed 80% of the speed listed on Table 1. Make sure to choose the correct size of Motor Pulley and Belt.

The turning direction of Pulley (A) is clockwise like Handwheel (B). (Fig. 4)

Table 1(表1)

Machine speed (s.p.m.) 轉速/分	Motor pulley Outer Diameter(mm)		Motor Belt V-BELT, M-TYPE (CLUTCH MOTOR)
	60HZ	50HZ	
6,000	105	125	36 "
5,500	95	115	↑ 35 "
5,000	85	105	↓ 34 "
4,500	80	95	
4,000	70	85	



(Fig. 4)

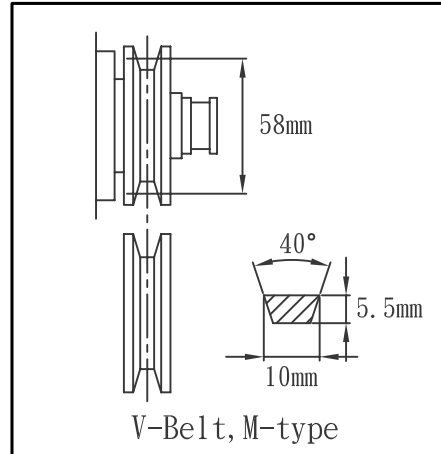
B.馬達與皮帶:

MOTOR AND BELT :

1. 請依照表1所指示之規格安裝馬達，並使用M番之V型皮帶。

安裝馬達時，馬達驅動輪與機器皮帶輪之中心點須呈一直線。而在使用離合器馬達時，所謂馬達驅動輪與機器皮帶輪之中心點呈一直線，是指離合器馬達驅動輪，因起動踏板下踩而向左靠列底的狀態下。(圖5)

Use Clutch Motor and V-Belt of M-type. Position Motor so that its center aligns with the center of machine's Pulley when the Pulley is shifted to the left by treading Pedal. (Fig. 5)



(Fig. 5)

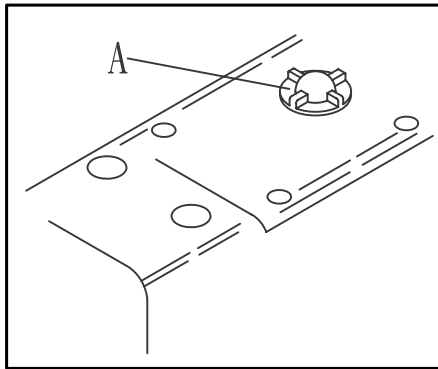
## C. 潤滑油:

### LUBRICATION OIL:

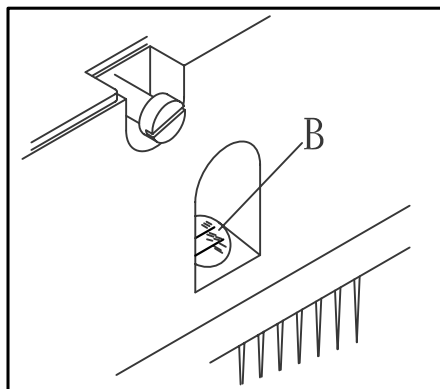
1. 請選用與 Mobil #10或 Esso #32 同級之潤滑油。  
Please use oil Mobil #10, Esso #32 or its equivalent.
2. 在新機使用前請先注入潤滑油。旋開頂蓋上的噴油檢視蓋(A)，將油緩緩注入機器中，待油滿至油量指示窗(B)上下線之間即可。(圖 6)

As the oil has been completely drained before shipment, please fill lubrication oil first before the new machine to be used.

To remove Oil Sight Window Plug A and fill the oil slowly until the oil level reach between lines H and L of Sight Gauge B. (Fig. 6)



(Fig. 6)



(Fig. 6)

3. 於每天開機操作時，請先檢查噴油狀態是否正常且注意油量是否低於指示窗之下限，若低於下限請隨時補充新油。

When you begin operating the machine everyday, please check whether all the lubricating system is in good condition.

If oil is lower under L line of Oil Sight Gauge B, please supply oil. (Fig. 6)

## D. 潤滑油的更換:

### CHANGE OF LUBRICATING OIL:

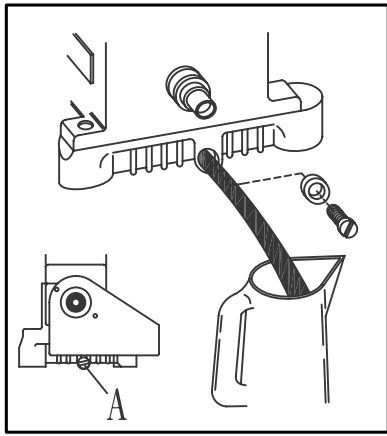
1. 為延長本機的使用壽命，請於開始使用後的一個月內更換第一次新油，以後約每六個月更換一次。

更換潤滑油時，請先取下V型皮帶，再將機器自工作檯取下。先卸下放油螺絲(A)，並倒乾油槽內之舊油，此時，注意勿污染V型皮帶。待舊油完全排出後，再將放油螺絲鎖緊，再依C-2的步驟注入新油。(圖7)

For machine long-life and durable performance, please replenish lubricating oil after one-month operation and it must be completely changed every six months thereafter.

Please remove V-belt from Pulley and remove machine from Table. After removing Screw A and draining all the used oil from the Reservoir.

When you replenish new oil, take care not to smear V-Belt with oil then tighten Screw without fail. (Fig. 7)



(Fig. 7)

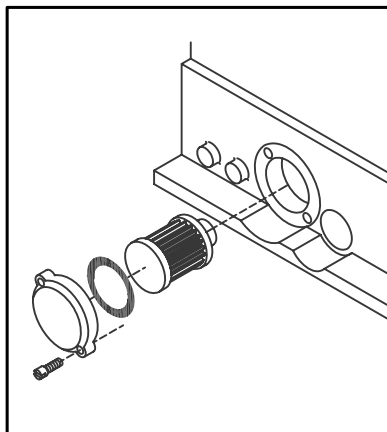
### E. 濾油器之更換:

#### REPLACING OIL FILTER :

本機裝有濾油器，新機使用一個月後必須更換新品。此後，約每6個月更換一次。(圖8)

The machine is equipped with an Oil Filter as Fig. 8, when Oil Filter gets clogged with dirt, the proper lubrication is impossible.

Therefore, please change Oil Filter after one month initial operation and please change Oil Filter every six months thereafter. (Fig. 8)



(Fig. 8)

### F. 擊針的選用及更換方式:

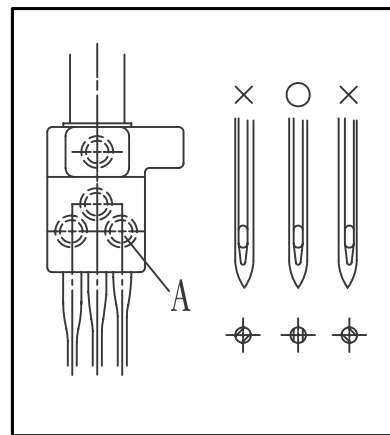
#### HOW TO REPLACE THE NEEDLES :

1. 本機使用編號UY/128GAS的各式大、小番號擊針或其他相同規格的产品。

Please use all kinds of the model number UY/128 GAS of Organ's needle or its equivalent.

2. 在更換擊針時，請先旋開鎖針螺絲(A)，並取下舊針，再依車縫布料厚薄、質料，選定最合適之擊針，將新針插至針鑿之最頂端，且使長溝面背向自己。(圖9)

When replacing new needles, loosen Screw A, then pull out the used needles, insert the new ones into the hole of Needle Holder as far as they can go and adjust the Needle Scarf facing rearwards from operator's view. (Fig. 9)



(Fig. 9)

3. 重新將鎖針螺絲鎖緊(A)。  
Fasten screw (A).

## G.穿線方式:

### THREADING :

- 1.請按照圖中所指示的穿線方式，正確穿線。若穿線方式錯誤，將會引起斷線，跳針或車縫不平坦等現象。(圖10)

Please refer to Fig. 10. for threading.  
Wrong threading may cause thread breakage, stitch skipping, puckering, uneven seam, ect.

2. A.B.C …… 擊針線，D …… 上裝飾線，E …… 下勾針線。(圖10)

A.B.C. are needle threads, D is top covering thread, E is looper thread.

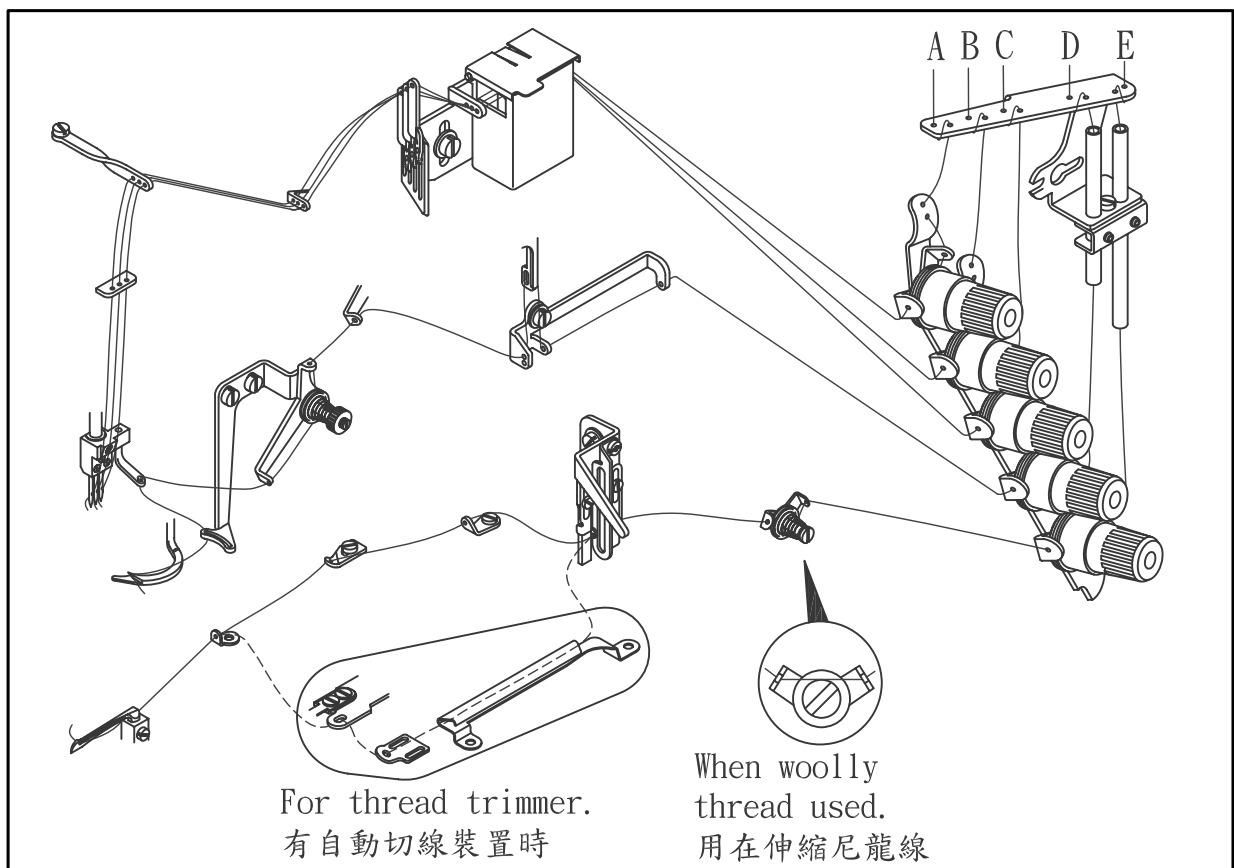
- 3.若用三針車縫，則穿線方式如圖所示。若用二針車縫，穿線方式亦相同，所不同者，僅是擊針線穿二針而已。(圖10)

The illustration Fig. 10 Shows the threading for 3-Needle Machine.

When cotton or nylon threads is used as looper thread, The thread should go through Fig. 10-a as shown.

- 4.當下勾針線使用棉線或伸縮尼龍線時，其穿線方法並不相同，請參照圖10 a 中的正確方式穿線。

When wooly, nylon or similar thread is used as Looper thread, please refer to Fig 10-a for threading.



(Fig. 10)



## H. 拉線鬆緊度的調整:

### ADJUSTING THREAD TENSION :

拉線的強弱必須根據車縫的布料、厚薄及線與針距的不同，而做調整，將針線控制鈕順時鐘方向旋轉時，線愈緊，反之則愈鬆。

The tension of the thread depends on

1. The material and the thickness of the fabric to be sewn;
2. The threads to be used.
3. The stitch width, stitch length, etc.

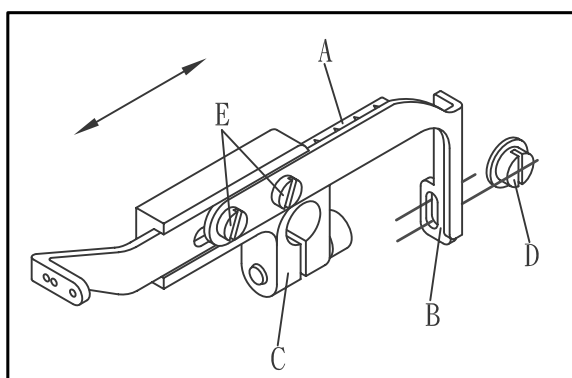
If you turn the Thread Tension Spring Cap clockwise, thread will be tighter, on contrary, it will be looser.

Make the thread tension as weak as possible according to the sewing condition as long as stable seam can be obtained.

## I. 針線過線桿的調整:

### ADJUSTING THE NEEDLE THREAD EYELET :

1. 當針棒降至最低時，針線提線過線桿 A 向左下方傾斜右端上飾線提線過線桿長溝的中心點 B，對準上飾提線過線桿固定螺絲的中心點，(圖11)必要時可放鬆螺絲調整之。



(Fig. 11)

2. 本機的針線提線過線桿 A 上有六個刻度，本機於出廠時皆將針線提線過線桿上由右至左算起的第四個刻度對準托架 C 右端，再連同上飾線提線過線桿一齊鎖在托架上。

3. 欲將針線調緊些，可將針線提線桿 C 向右方移動，反之則可將針線調鬆些，鬆開 2 個螺絲 E 做以上調整。

When the Needle Bar down to the lowest position, the center of groove hole B should centralize to the fixing screw of Top Cover Thread Eyelet D.

Or when the Needle Bar is up to the highest position, the top edge of Needle Thread Take-up and Top Cover Thread Take-Up should remain horizontal.

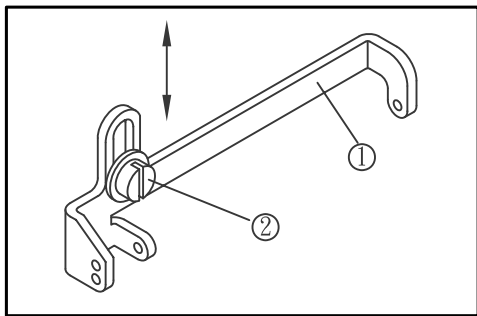
There are six graduations on the Needle Thread Take-Up, the fourth graduation should align with the right end of Bracket. To adjust it by loosening two Screws E . (Fig. 11)

## J. 上飾線控線桿的調整:

### ADJUSTING OF TOP COVER THREAD EYELET :

1. 除針線控制鈕可調整上飾線之張力外，上飾線過線桿 ① 亦可調整上飾線之鬆緊(圖12)，鬆開固定螺絲 ②，將上飾線過線桿往下移，可將上飾線放鬆，反之，則可將上飾線收緊。
2. 當針線控線桿向左下方傾斜大一點，則可將上飾線放鬆，反之則可將上線收緊。

The tension of top cover thread also can be adjusted by loosening Screw ② then moving Top Cover Thread Eyelet upward or downward. (Fig. 12)



(Fig. 12)

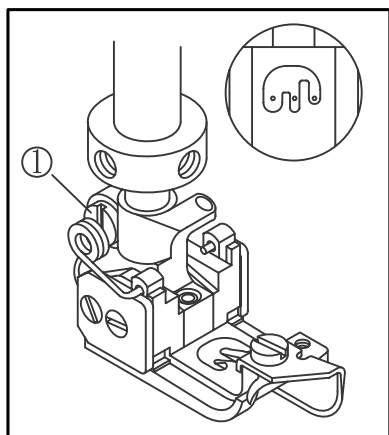
### K. 押腳的調整:

#### ADJUSTING PRESSER FOOT :

鬆開押腳固定螺絲①左右搖動，調整押腳，使針尖位於押腳針孔的正中央，調整好後，再將固定螺絲鎖緊。(圖13)

Loosne Screw①. and adjust Presser Foot left and right to a proper position where the needles can get into the center of Presser Foot eyelets.

After adjusting, tighten Screw①. (Fig. 13)



(Fig. 13)

### L. 押腳壓力強度的調整:

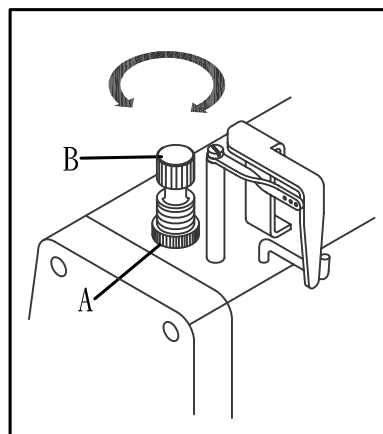
#### ADJUSTING PRESSURE OF PRESSER FOOT :

1.若要求布料車縫順暢且縫合完美，押腳壓力應盡量輕些。

Adjust Presser Foot pressure as weak as possible, so that cloth can be sewn smoothly.

2.鬆開螺帽(A)，轉動螺絲(B)，待其調整至適當壓力後再將螺帽(A)鎖緊。(圖14)

To adjust, loosen nut A, turn screw B to a proper pressure, then fasten nut A. (Fig. 14)



(Fig. 14)

### M. 縫目長度的調整:

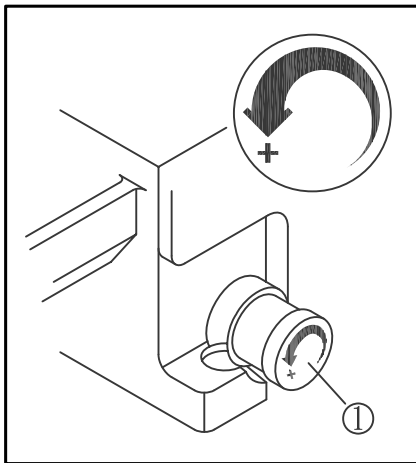
#### ADJUSTING STITCH LENGTH:

本機的標準縫目為最粗針1英吋約7針，最細針1英吋約15針，採用無階段式調整。

Stitch length can be adjusted in any range from 3.6mm~1.7mm or 7-15 stitches per inch.

1. 將針距調整鈕 順時鐘方向旋轉時，則縫目愈密，反之則縫目愈疏。  
(圖15)

Turn Knob ① clockwise, the stitch length becomes short, on contrary, it becomes long. (Fig. 15)



(Fig. 15)

2. 本機可於機器轉狀態下，旋轉針距調整鈕調整縫目長度，不須停機。

*You can adjust the stitch length at ease when machine is being operated. There is no need to stop the machine.*

#### N. 差動比的調整:

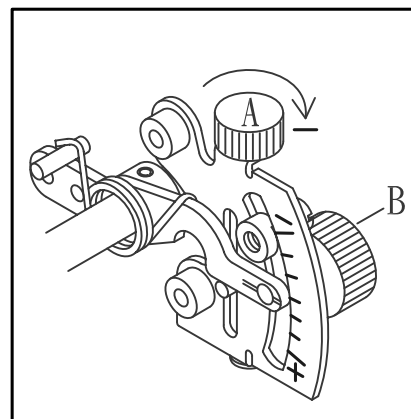
#### ADJUSTING DIFFERENTIAL FEED RATIO :

1. 本機之差動比可從1:1調整至1:5.6。

The differential feed ratio of this machine is adjustable from 1:1 to 1:5.6

2. 機台右方一螺桿(A)順時鐘調整時，則差動比小，反時鐘調整時則大。調整差動比前須先將螺母(B)鬆開，調整後再鎖緊。(圖16)  
當差動齒比主齒傳動速度快，可做摺景車縫，反之，當差動齒比主齒傳動速度慢，可做伸展布料車縫使用。

Loosen Knob B then turn Knob A clockwise to increase the feed ratio for gathering the fabric. On contrary, turn Knob A counter-clockwise to decrease the feed ratio for stretching the fabric. After the adjustment, fasten the Knob B.



(Fig. 16)

## 二、調整說明:

## ADJUSTMENT GUIDE

### A. 針棒高度的調整:

#### ADJUSTING THE HEIGHT OF NEEDLE BAR :

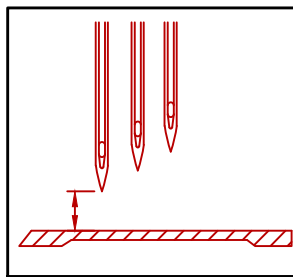
1. 當針棒移到最高點時，左針尖端與針板距離如附表 2，為針棒之標準高度。

When the Needle bar is on the top position, the distance between the Left Needle tip and Stitch Plate should be as table 2.

This is the standard height of Needle Bar.

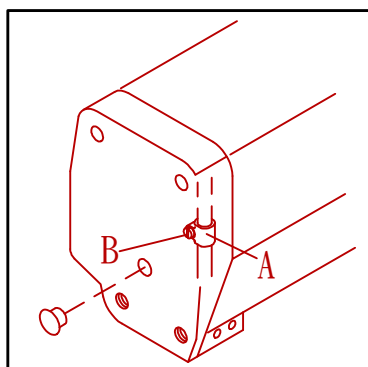
#33 (Table 2.)

規格種類 Needle Gauge	左針高度(MM) Height of Left Needle
240	9.7
248	9.2
356	8.8
364	8.2



2. 若要調整針棒高度，請取下止油膠蓋，放鬆針棒連桿(A)上的螺絲(B)，上下調整針棒的高度後在固定之。(圖17)

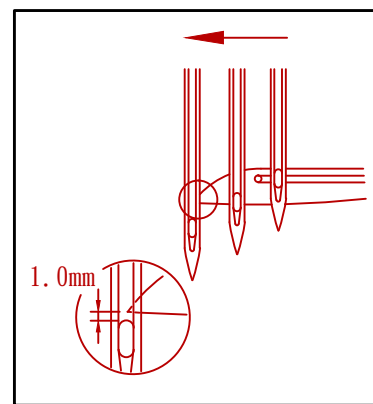
To adjust the height of Needle Bar, remove the Rubber Seal Plug and loosen the Screw B of Needle Bar A, adjust the Needle Bar up or down to the required height and fix the Screw B. (Fig. 17)



(Fig. 17)

3. 當下勾針向左前進與最長針(左針)對齊時，勾針針尖底部與針孔上沿距離 1 mm，此一相對位置即為本機針棒之標準高度。(圖18)

When the Loper goes through the Left Needle, the Loper tip is 1.0 mm above the upper end of the Left Needle hole. (Fig. 18)



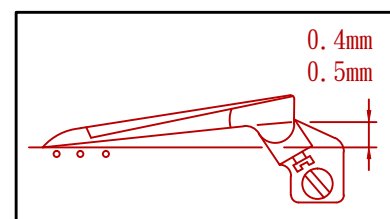
(Fig. 18)

### B. 針與勾針位置的說明:

#### POSITION OF NEEDLE AND LOOPER :

1. 將勾針固定於勾針座上，勾針約向前(向操作者方向)偏0.4mm~0.5mm。(圖19)

Insert the Loper into the Loper Holder as far as it can go and deflect the Loper to the front about 0.4mm~0.5mm. (Fig. 19)

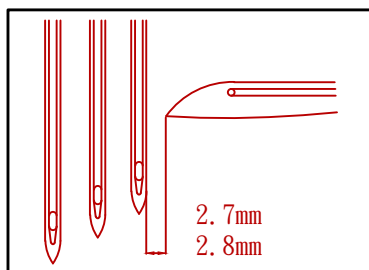


(Fig. 19)

2. 再將針棒降至最低，且下勾針退至右孔點，此時最短針(右針)與下勾針針尖的距離為2.7mm~2.8mm、不同針距，請參照表3做調整。(圖20)

To move the Needle Bar to the lowest position, at the same time, the Loper retruns to the extreme right end, the distance between Right Needle and the Loper tip is 2.7mm~2.8mm . (Fig. 20)

Please refer Table 3 for other Needle gauge's adjustment



(Fig. 20)

Table 3

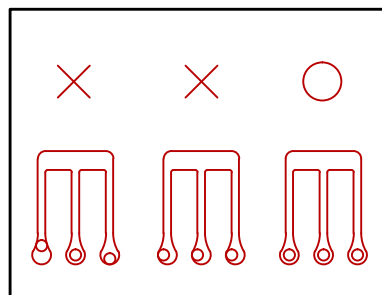
Needle Gauge	Movement of Loper to the Right
4. 0mm (A)	3. 6mm
4. 8mm (B)	3. 2mm
5. 6mm (C)	2. 7~2. 8mm
6. 4mm (D)	2. 6mm

\* 注意:

NOTE :

- (1). 針必須完全插入針鑄孔中。  
經過調整後，必須確定每一根針是通過針板針孔的正中央。(圖21)

Insert the Needles into the Holder as far as they can go.  
After the adjustment, make sure the needles can get into the center of the Needle Plate holes, and the gaps are even. (Fig. 21)



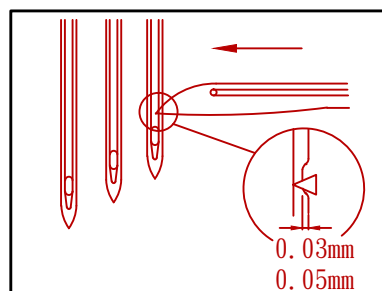
(Fig. 21)

### C.針與勾針的時位關係調整:

#### ADJUSTING TIMING RELATION BETWEEN NEEDLES AND LOOPER :

1. 當勾針向左前進通過右針時，勾針針尖與針應輕微接觸0.03mm~0.05mm。(圖22)

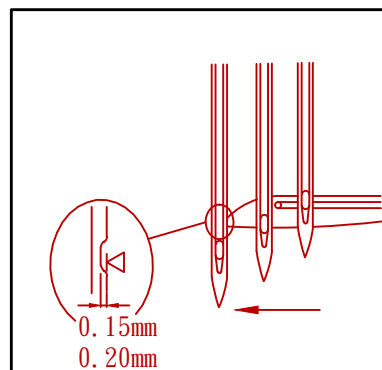
When the Loper moves from extreme right and forward to the Right Needle, the Loper tip shall slightly contact the Needle by 0.03 mm~0.05 mm. (Fig. 22)



(Fig. 22)

2. 當勾針向左前進通過左針時，勾針針尖與針的距離為0.15~0.20mm。(圖23)

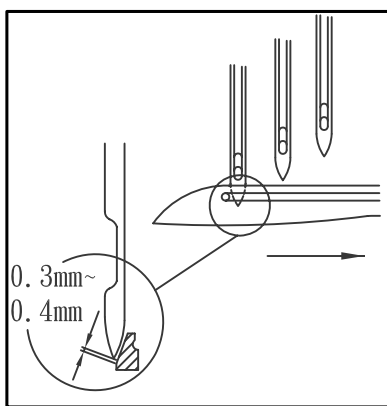
When the Loper moves to the Left Needle, the clearance is about 0.15mm~0.20 mm. (Fig. 23)



(Fig. 23)

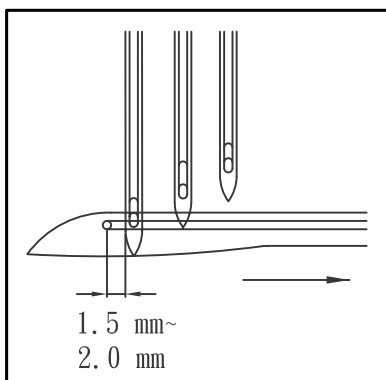
- 3.當勾針向右退後，左針必須插到勾針斜面積線往上0.3mm~0.4mm (如圖24) 且當最長針針尖與勾針底部平齊時，勾針針孔中心到左針的距離為 1.5mm~2.0mm。(圖25)

When the Loper moves backward to Left Needle, the Left Needle tip should stick on the slant edge of the Loper by 0.3mm~0.4mm. (Fig. 24)



(Fig. 24)

When bottom surface of the Loper aligns with the tip of Left Needle, the distance from the center of Loper hole to Left Needle edge is about 1.5mm~2.0mm. (Fig. 25)



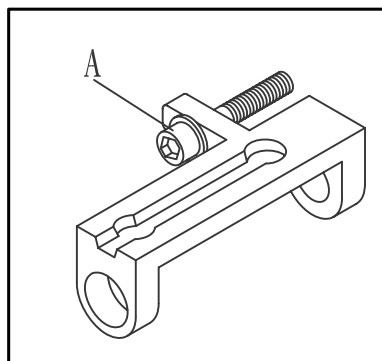
(Fig. 25)

\* 注意：  
Note :

若欲調整擊針插到勾針斜面之厚、薄，請先將縫製平台，曲軸室上蓋及曲軸室製墊片取下，再放鬆下勾針驅動軸導槽旁的搖臂調整銷鎖上的螺絲 (A)，將螺絲往前 (操作者方向) 推動鎖緊，則擊針插到斜面之厚度減少，反之 (圖25)則愈來愈厚。

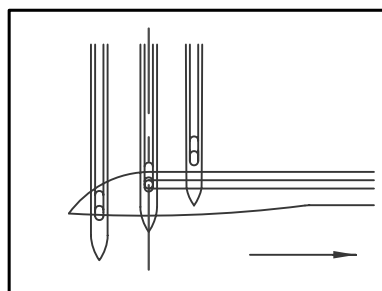
To adjust feeding amount of the needle sticking on the looper slant edge (Fig. 24), please take off Crank Chamber Cover and Crank Chamber Gasket from the Cloth Plate by adjusting the Screw of Loper Bar Guide A.

Turn screw A to operator's direction to fasten, the feeding amount will be less on contrary, it becomes more.



- 4.當勾針向右退後經過中針時，此時勾針之針孔與中針的針孔成一直線。(圖26)

When the Loper goes backward to the Middle Needle, the hole of the Loper shall align with the hole of the Middle Needle. (Fig. 26)

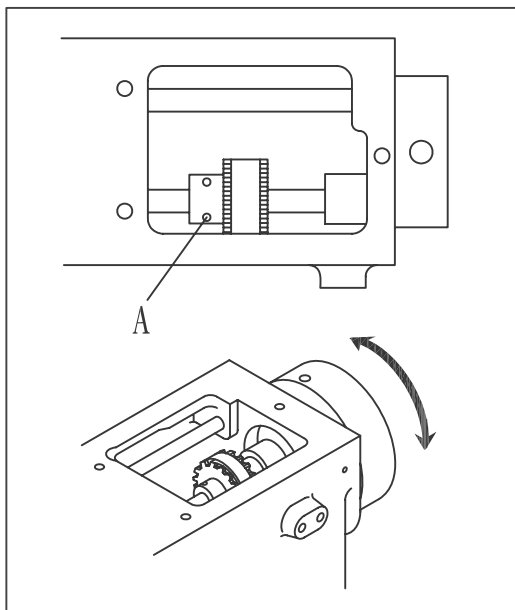


(Fig. 26)

**\* 注意:**  
**NOTE :**

若欲調整勾針運轉時間，請先將上蓋取下，放鬆上主軸鏈輪上的螺絲(A)，另一手握住手推輪使其不動，此時將主軸鏈輪往前(操作者方向)推動，則勾針運轉時間延後，反之，則勾針時間提早。(圖27)

To adjust the Loper's orbit movement, please open Top Cover and loosen the 4 Screws of Upper Shaft Sprocket (A) then hold Hand Wheel still. When slightly turn Shaft Sprocket to operator's direction, the Loper's movement will be delay, on the contrary, it will be expedised. (Fig. 27)



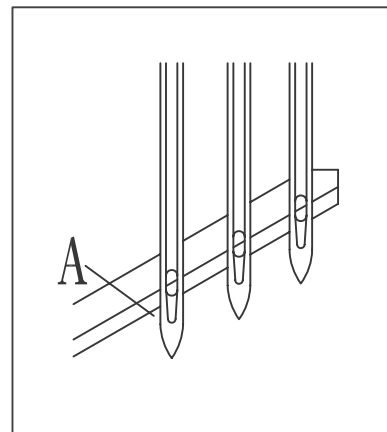
(Fig. 27)

**D.頂針片高度之調整:**

**ADJUSTING THE HEIGHT OF REAR NEEDLE GUARD :**

- 1.當針棒降至最低時，後頂針片上之稜線(A)與之跟針之針孔成一直線。(圖28)

When the Needle Bar goes down to the lowest position, the line A of the Rear Needle Guard should be at the center of needles holes. (Fig. 28)

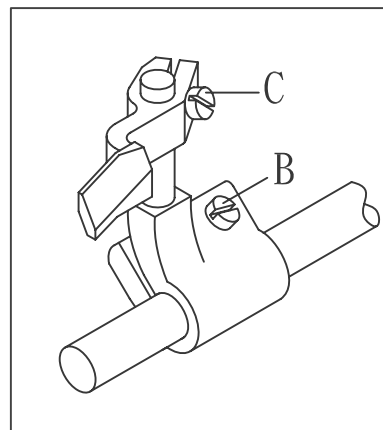


(Fig. 28)

- 2.若欲調整頂針片的高度，請放鬆螺絲(B)、(C)調整之，但切勿調得太高，以免撞及送料具。(圖29)

Loosen screw B and C for above adjustment.

*Caution : Never adjust the Needle Guard too high to contact Feeding Device. (Fig. 29).*



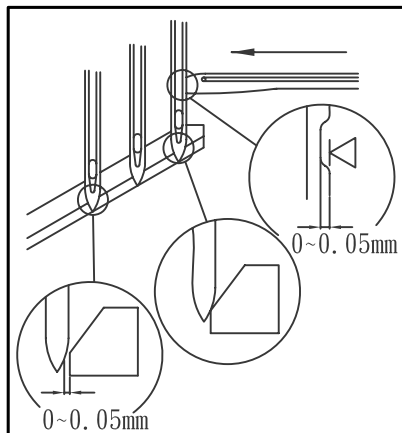
(Fig. 29)

## E.前後頂針片之調整:

### ADJUSTING FRONT AND REAR NEEDLE GUARD :

- 1.當勾針針尖向左前進，針尖到達右針中心時，此時後頂針片與右針之距離為0~0.05mm。而當勾針針尖到達左針中心時，後頂針片與左針之距離亦為0~0.05mm。(圖30)

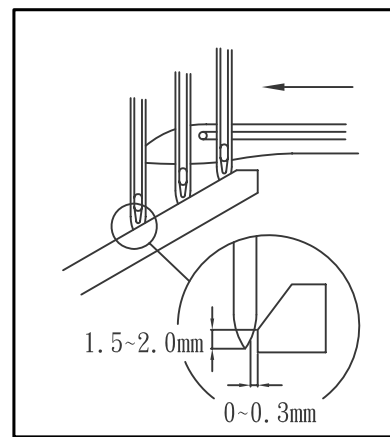
When Looper tip comes near to the center of Right Needle, make a clearance between Right Needle and Looper 0~0.05 mm by actuating Needle Guard (rear), and adjust a clearance between Left Needle and Guard (rear) 0~0.05mm. (Fig. 30)



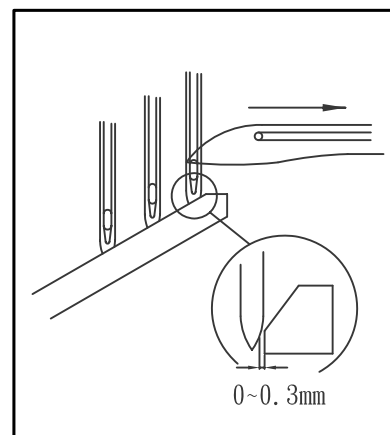
(Fig. 30)

- 2.當勾針針尖向前進，針尖到達左針中心點時，前頂針片約高於右針1.5mm~2.0mm (圖31)，且左針與前頂針片的距離為0~0.3mm，當勾針針尖退後針尖到達右針中心點時，前頂針片與右針之距離為0~0.3mm。(圖32)

When Looper tip shifts to the center of Left Needle, set the Front Needle Guard 1.5 mm~2.0 mm higher than the Left Needle tip. The clearance is 0~0.3 mm between Left Needle, Right Needle and Front Needle Guard. (Fig. 31 & Fig. 32)



(Fig. 31)



(Fig. 32)



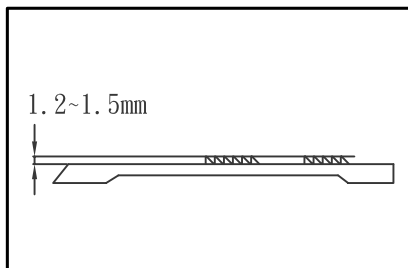
## F. 送布齒高度調整:

### ADJUSTING THE HEIGHT OF FEED DOG :

1. 當送布齒在最高位置時，送布齒齒尖面與針板面平行，此時主送布齒A.與差動送布齒B.高度相同且齒面與針版面差1.2~1.5mm。

When Feed Dog are at the highest position, the surface of Feed Dog and the surface of Stitch Plate becomes parallel with each other.

At this time, make differential feed dog (A) and main feed dog (B) to be at the same height and adjust the distance from surface of Stitch Plate to the surface of Feed Dog to be 1.2~1.5 mm. (Fig. 33)



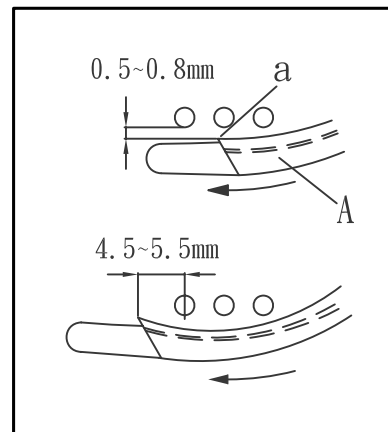
(Fig. 33)

## G. 上叉位置的設定:

### ADJUSTING THE POSITION OF THE SPREADER :

1. 當勾線針(A)向左游走時，其上(a)點之位置與最左車針間之間隙應為0.5mm~0.8mm，且當勾線針(A)游走至最左位置時，其上(a)點與最左邊車針之間隙一定得在4.5mm至5.5mm之間。

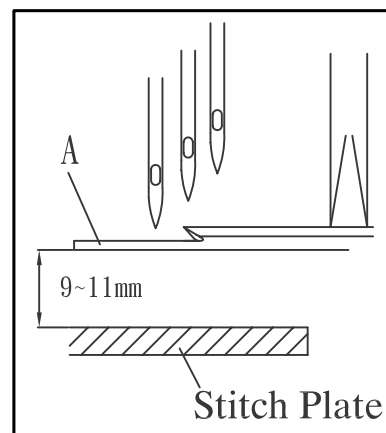
When Spreader (A) moves from right to left, provide a clearance of 0.5~0.8 mm. between Left Needle and the tip (a) of thread hooking point, and when it comes to the extreme left, the clearance between the center of Left Needle and tip (a) of thread hooking point must be 4.5~5.5mm. (Fig. 34)



(Fig. 34)

2. 勾線針下緣之高度應保持在針板面之上9mm~11mm。

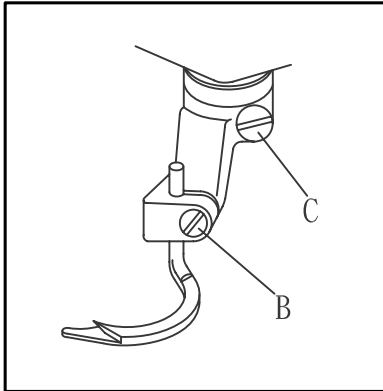
Adjust the height of undersurface of Spreader (A) above the top surface of Stitch Plate to be 9~11mm. (Fig. 35)



(Fig. 35)

3. 上述之調整動作可藉由放鬆螺絲(B)與(C)來取得。

Above adjustment is made by loosening Screw (B) of Spreader and Screw (C) of Spreader Holder. (Fig. 36)



(Fig. 36)

4. 根據所使用之線的不同，必須將車針其勾線針的間隙作以上正確之調整。

The above adjustments should be made properly according to the thread to be used.

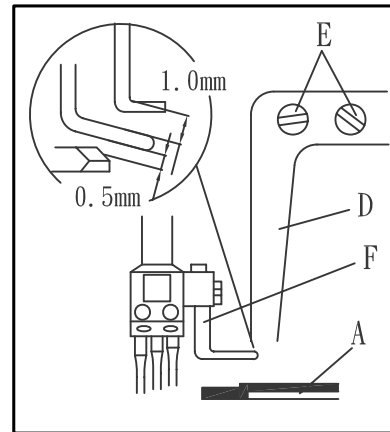
#### H. 上飾線之導線器的固定:

#### FIXING OF TOP COVER THREAD GUIDE & TOP COVER THREAD EYELET:

1. 當勾線針退至最右位置而能平穩的勾住線時，上飾線之導線器 (D) 的下緣與彎針 (A) 的上緣之間間隙應為 0.5 mm。調整完畢後，鎖緊螺絲 (E)。

Provide a clearance of 0.5mm. between undersurface to Top Cover Thread Guide (D) and the top surface of Spreader (A).

At the position, the thread is caught smoothly by thread hooking part when spreader comes to extreme right, tighten screw (E). (Fig. 37)

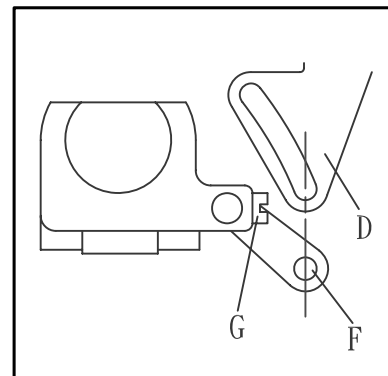


(Fig. 37)

2. 上飾線導線器 (D) 之上緣與上飾線穿線孔器 (F) 之下緣間之隙應為 1.0mm；同時穿線孔器 (F) 之線孔應與導線器 (D) 之長形孔延伸部份在一直線上。調整完畢後，鎖緊螺絲 (G)。

Provide a clearance of 1.0mm. between top surface of Top Cover Thread Guide (D) and undersurface of Top Cover Thread Eyelet (F). (Fig. 37)

Set the hole of Top Cover Thread Eyelet on the extension line of slot for Top Cover Thread Guide, then tighten screw (G). (Fig. 38)



(Fig. 38)

※根據所使用之線的不同，而必須將上飾線導線器，穿孔器位置作以上正確之調整。

※ The above (1), (2) should be adjusted properly according as the thread to be used.

## I. 勾針控制線桿的位置

### THE POSITION OF LOOPER THREAD TAKE-UP:

1. (圖40)是從操作員左側觀察勾針控線凸輪。

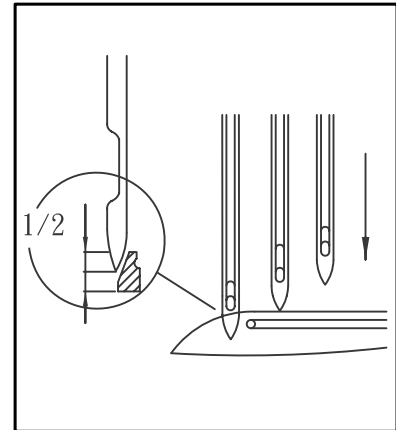
(Fig. 40) is viewed from left side of operator.

2. 當針從最高處下降時，左針大約位於勾針後面之一半的位置時 (圖39) 勾針針線必須脫離凸輪之最高位置 (P)。(圖40)

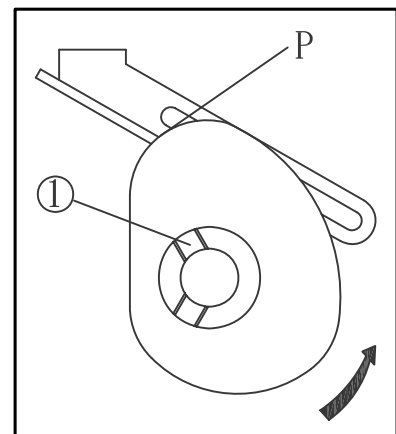
When Needle comes down from the highest position and the Left Needle tip reaches around 1/2 position of the looper, (Fig. 39) The looper thread should come over the highest position P of the Cam. (Fig. 40)

3. 調整螺絲 (1) 並調整之。

Turn the screw (1) for above adjustment.



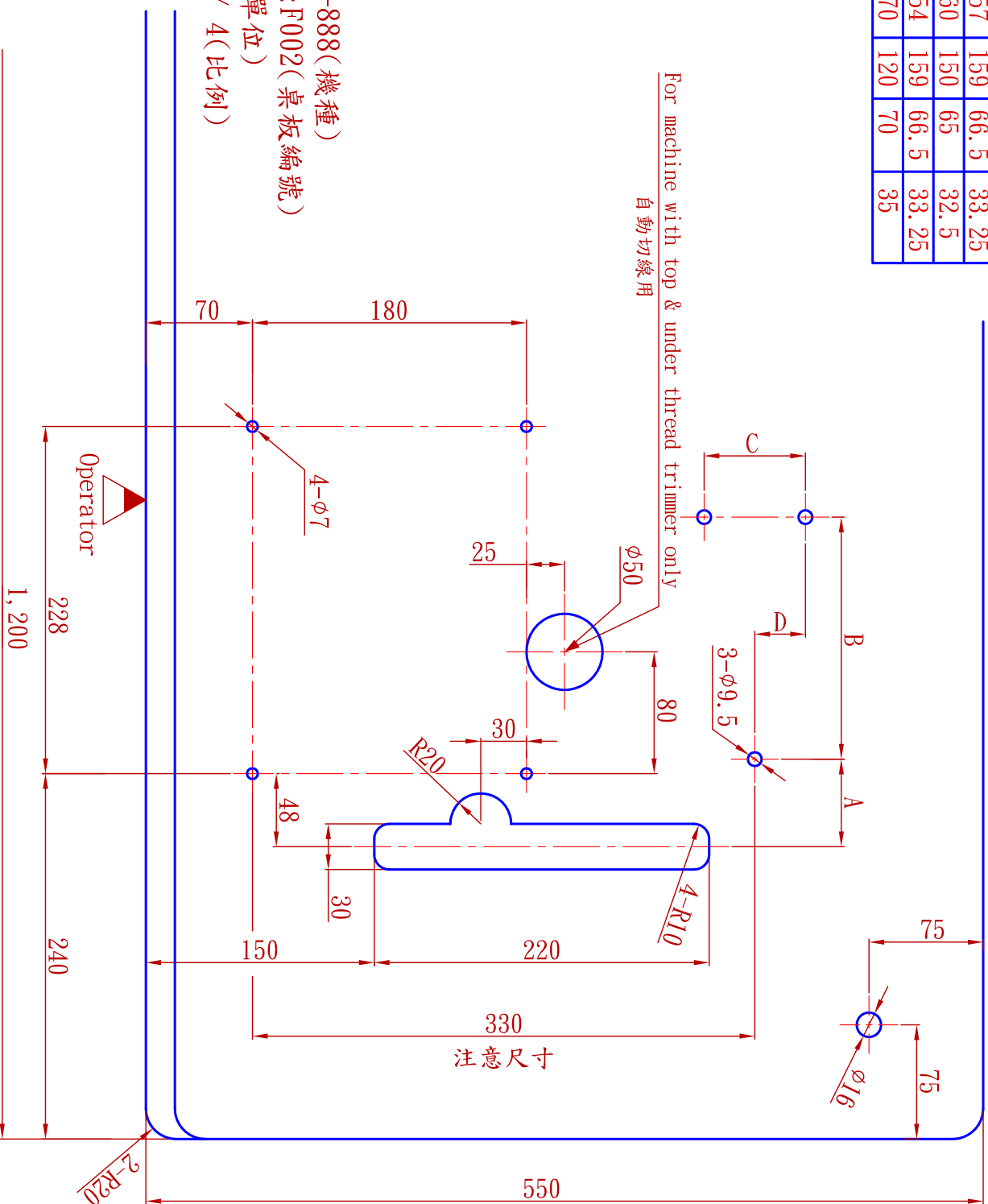
(Fig. 39)



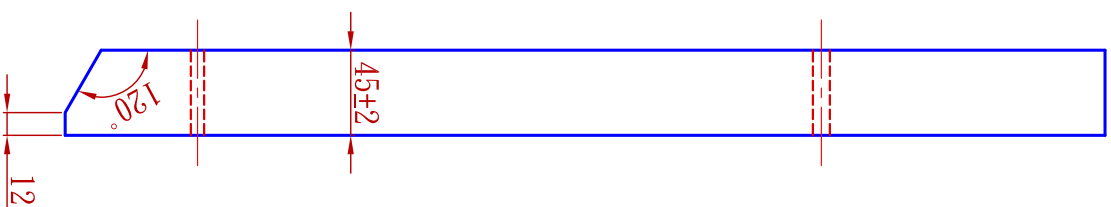
(Fig. 40)

Maker	A	B	C	D
Panasonic	57	159	66.5	33.25
Mitsubishi	60	150	65	32.5
Hitachi	54	159	66.5	33.25
Wang sing	70	120	70	35

For machine with top & under thread trimmer only  
自動切線用

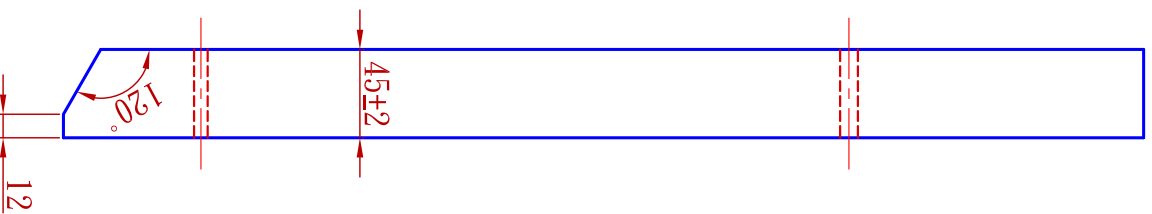
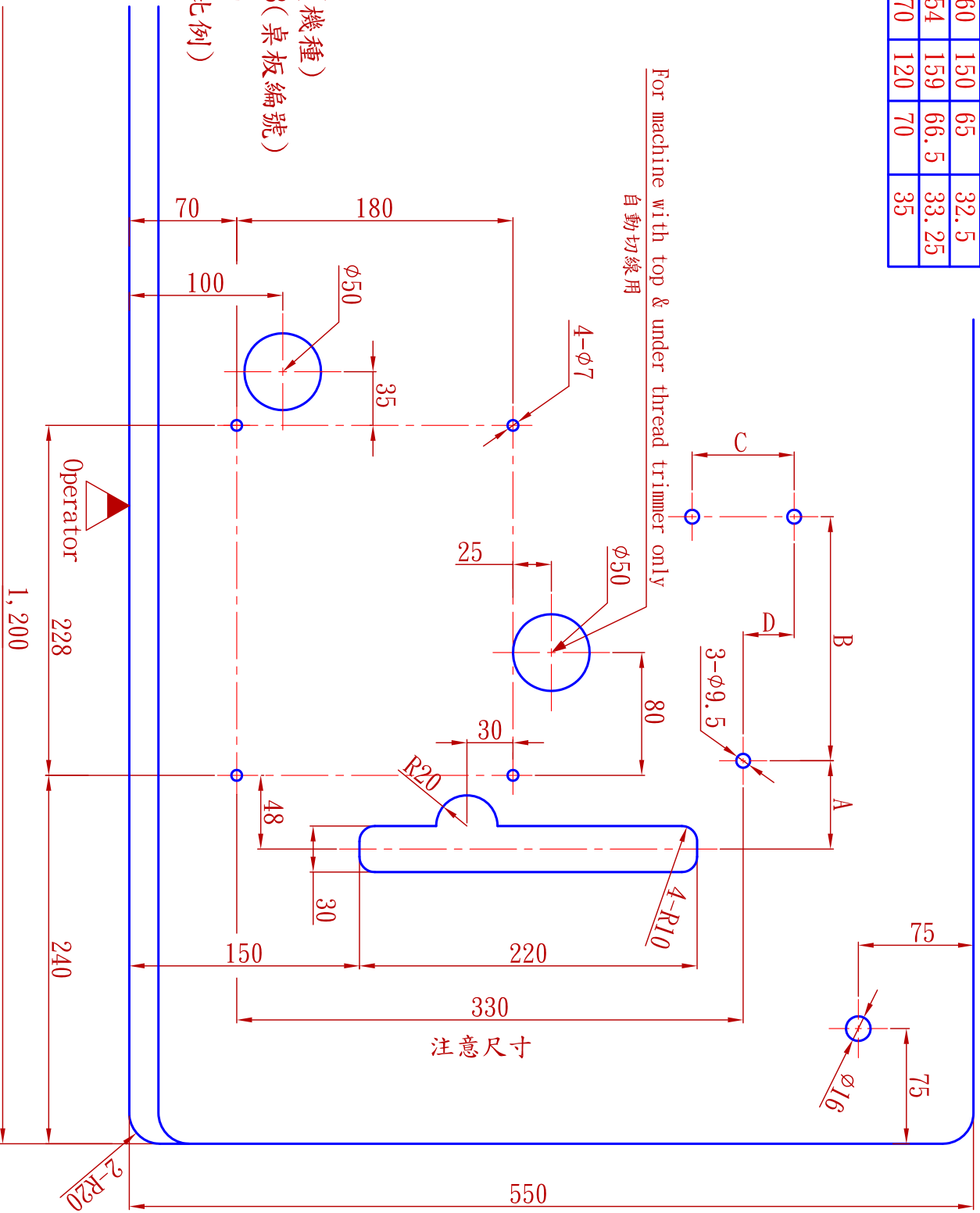


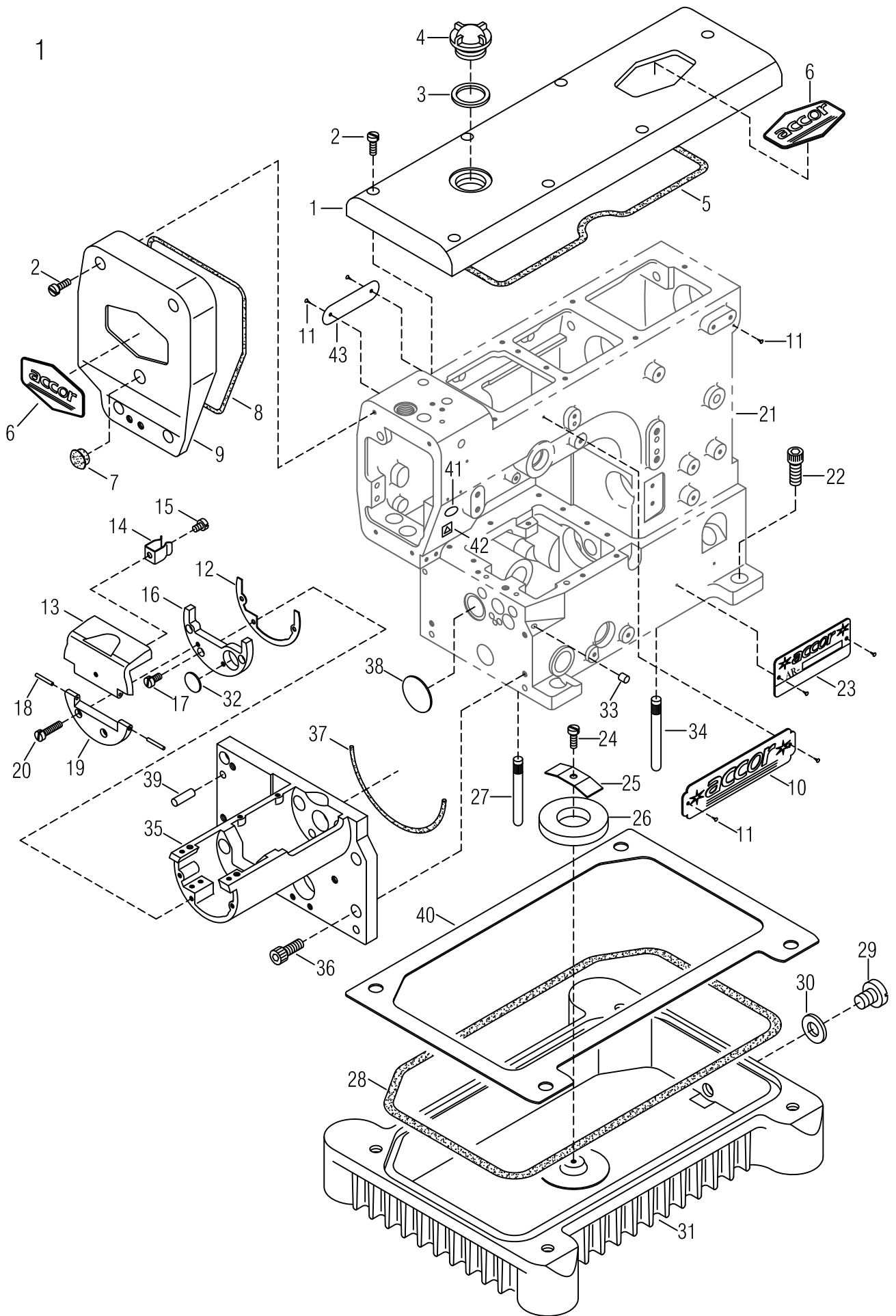
Model: VG-888 (機種)  
Table No: F002 (桌板編號)  
Unit: mm (單位)  
Scale: 1 / 4 (比例)



Maker	A	B	C	D
Panasonic	57	159	66.5	33.25
Mitsubishi	60	150	65	32.5
Hitachi	54	159	66.5	33.25
Wang sing	70	120	70	35

Model: VG-888 (機種)  
 Table No: F003 (桌板編號)  
 Unit: mm (單位)  
 Scale: 1 / 4 (比例)



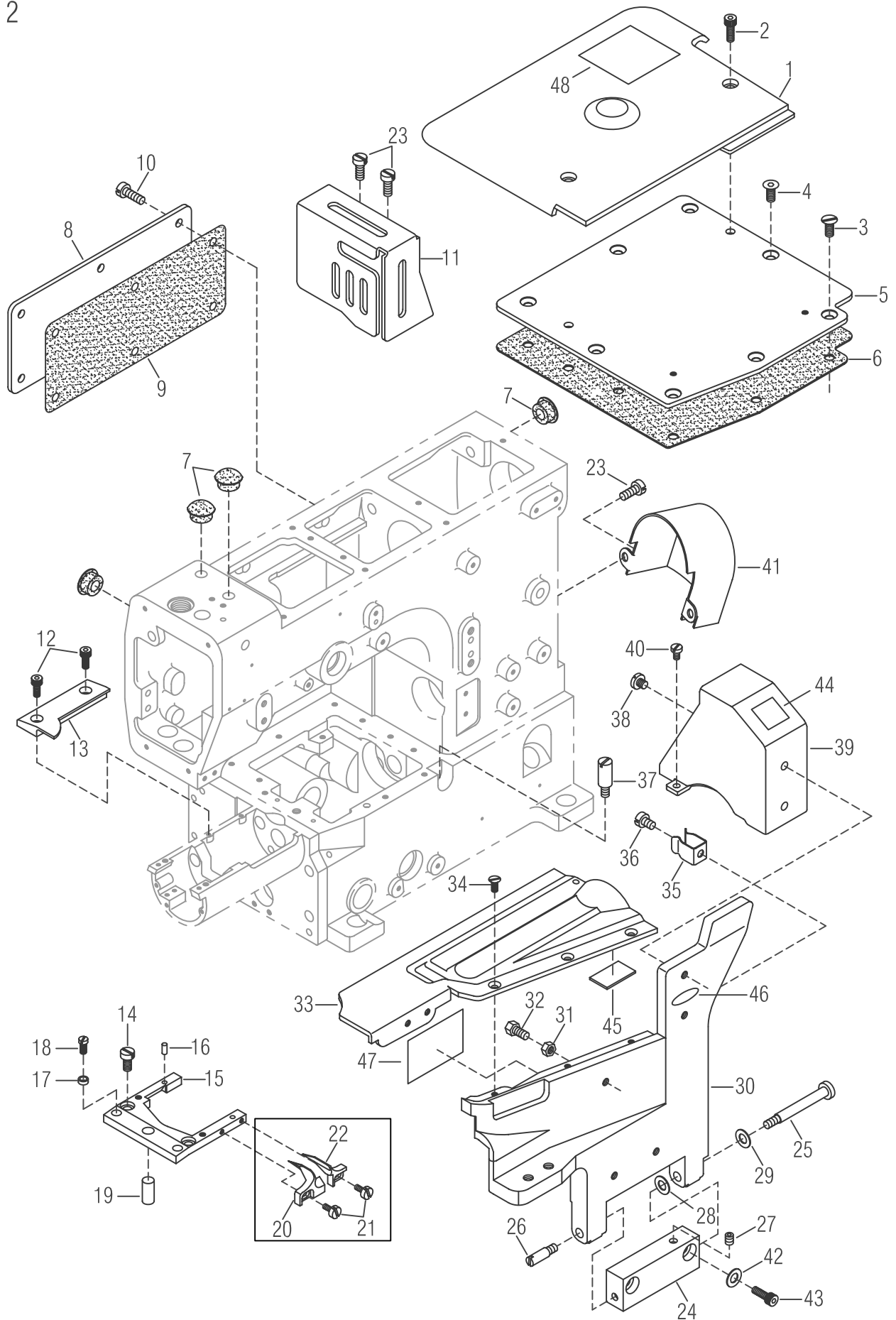


## MISCELLANEOUS COVERS ( 1 )

## 機殼及外蓋( 1 )

Ref. No.	Parts No.	Description	產 品 名 稱	Amt. Req.
1	VA01	Top Cover	上蓋	1
2	SV241	Screw ( M4 - 0.7 × 14 )	螺絲	11
3	FA22	Oil Ring	上油鏡O型油環	1
4	FA21	Oil Sight Window	上油鏡	1
5	VA05-1	Top Cover Gasket	上蓋方形油環	1
6		Emblem	銘牌	2
7	RV09-1	Head Cover Seal Plug	膠塞	1
8	VA08-1	Head Cover Gasket	上側蓋菱形油環	1
9	VA09-2	Head Cover	上側蓋	1
10		Brand Name Plate	公司銘牌	1
11	FA11	Rivet ( 2 × 5 )	鉚釘	6
12	H0112-1	Cylinder Side Cover Casket	圓筒下側蓋墊片	1
13	H0113	Cylinder Side Cover ( Upper )	圓筒上側蓋	1
14	H0114	Cover Latch Spring	夾簧	1
15	SV208	Screw ( M3 - 0.5 × 4.5 )	螺絲	1
16	H0116	Cylinder Side Cover ( Lower )	圓筒下側蓋	1
17	MDA080	Screw ( M3 - 0.5 × 8 )	螺絲	3
18	VA18	Side Cover Hinge Pin	樞鈕插銷	2
19	H0119	Cylinder Side Cover Hinge	圓筒側蓋樞鈕	1
20	SV217	Screw ( M3 - 0.5 × 8 )	螺絲	2
21	H0121	Machine Frame Unit	機殼	1
22	SF251	Screw ( M8 - 1.25 × 20 )	螺絲	4
23		Model Plate ( See the below )	型號銘牌	1
24	SV232	Screw ( M4 - 0.7 × 10 )	螺絲	1
25	VA26	Fixed Plate	磁鐵固定壓板	1
26	VA27	Magnet Holder	磁鐵	1
27	VA28	Machine Frame Supporting Bar	機體腳樁(短)	3
28	VA29-2	Oil Reservoir Gasket	油槽止油環	1
29	SF160-1	Screw ( SM 3/8 - 24 × 12 )	螺絲	1
30	RF25	Oil Ring	排油螺絲O形油環	1
31	VA32	Oil Reservoir	油槽	1
32	H0132	Plug	圓鋁塞片	1
33	H0133	Seal Plug	鋁塞	1
34	H0134	Seal Plug	機體腳樁(長)	1
35	H0135-2	Lower Cylinder Bed	圓筒下巴	1
36	SF231NI	Screw ( M5 - 0.8 × 14 )	螺絲	4
37	H0137	Oil Reservoir Gasket	止油橡膠條	1
38	H0138-1	Seal Plug	圓止油墊片	1
39	H0139	Knock Pin	軸承軸	2
40	VA40	Oil Reservoir Gasket	油槽止油片	1
41	VB42-4	Sticker	貼紙(VY128)	1
42	VB42-1	Sticker	貼紙(敬請注意)	1
43		Brand Name Plate	公司銘牌	1

2





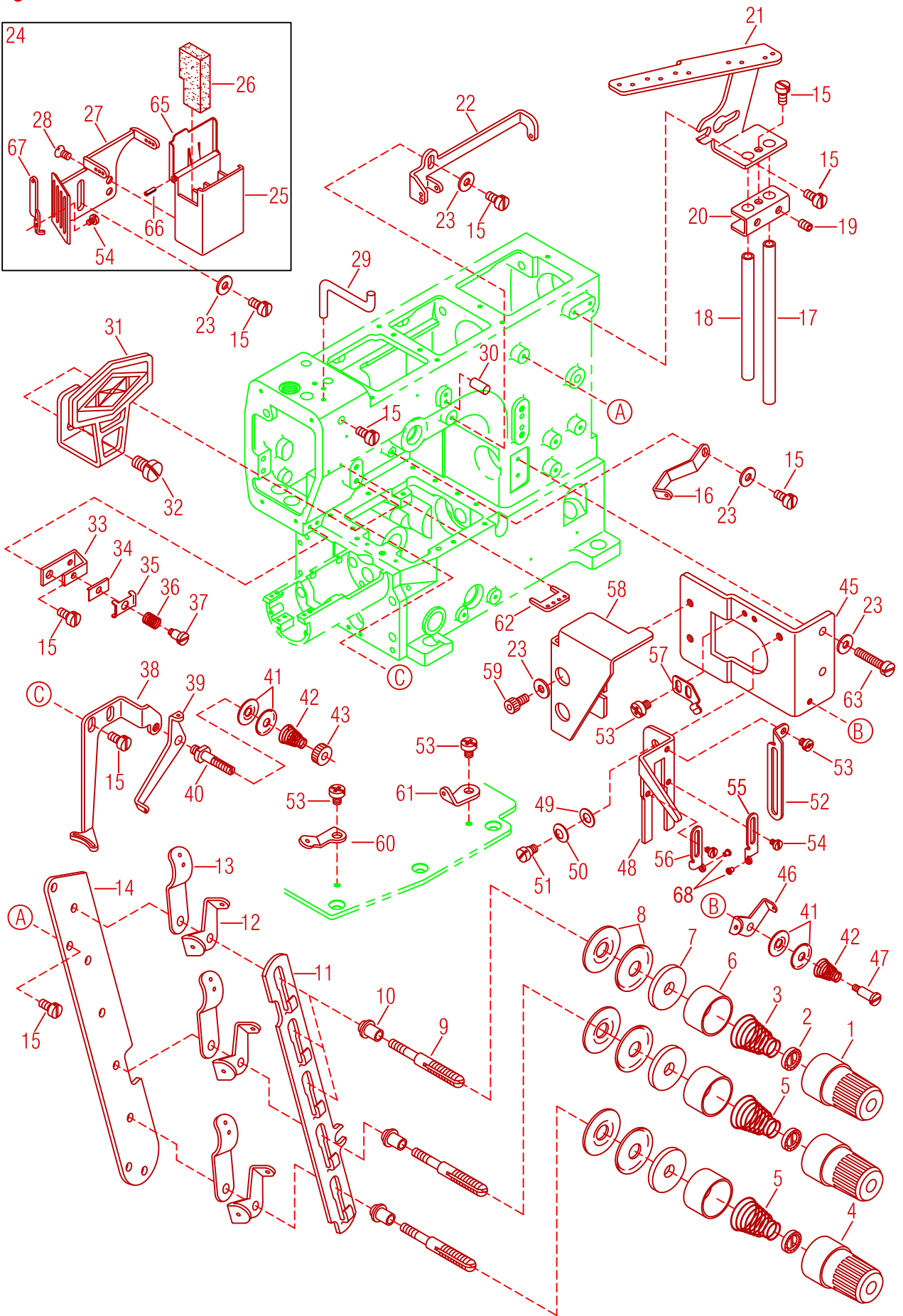
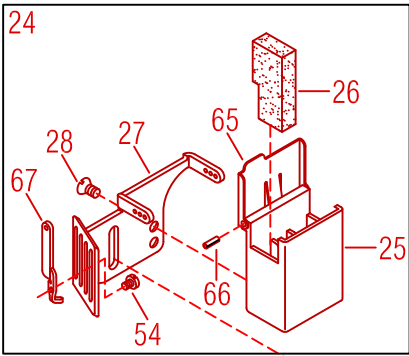
## MISCELLANEOUS COVERS (2.)

## 機殼及外蓋(2.)

2

Ref. No.	Parts No.	Description	產品名稱	Amt. Req.
1	H0201-1	Cloth Plate( Large )	縫製平台	1
2	SF225	Screw ( M4 - 0.7 × 10 )	螺絲	2
3	SV224	Screw ( M4 - 0.7 × 7 )	螺絲	6
4	MFS080	Screw ( M4 - 0.7 × 8 )	螺絲	2
5	H0205	Crank Chamber Cover	曲軸室上蓋	1
6	H0206NBR	Crank Chamber Cover Gasket	曲軸室墊片	1
7	RV09-1	Seal Plug	膠塞	4
8	VB08	Rear Cover	後蓋	1
9	N0209	Rear Cover Gasket	後蓋墊片	1
10	SV232	Screw ( M4 - 0.7 × 10 )	螺絲	6
11	VB11	Needle Bar Guard	針柱護罩	1
12	MDP080	Screw ( M3 - 0.5 × 8 )	螺絲	2
13	H0213	Supplementary Slide Cover	滑件補助蓋	1
14	H0214	Screw ( M4 - 0.7 × 7 )	螺絲	2
15	H0215-1	Stitch Plate Support	針板支架	1
16	VB16	Knock Pin	定出銷	2
17	H0217	Positioning Bushing	定位襯套	1
18	MDB060	Screw ( M3 - 0.5 × 6 )	螺絲	2
19	H0219	Knock Pin	固定銷	1
20	VB23	Fabric Guide ( Left )	導布器(左)	1
21	SF205	Screw ( M2.6 - 0.4 × 5 )	螺絲	2
22	VB22	Fabric Guide ( Right )	導布器(右)	1
23	SV221	Screw ( M4 - 0.7 × 8 )	螺絲	4
24	GB41	Front Cover Hinge	前蓋鉸鏈	1
25	SV225	Screw ( M4 - 0.7 × 8 )	螺絲	1
26	SV226	Screw ( M4 - 0.7 × 6 )	螺絲	1
27	SV227	Screw ( M4 - 0.7 × 5 )	螺絲	1
28	VB29	Conical Spring Washer	錐形彈簧墊圈	1
29	VB29-1	Conical Spring Washer	錐形彈簧墊圈	2
30	H0230	Front Cover ( Lower )	前蓋底座	1
31	NF27	Nut	螺帽	1
32	MFZ100	Screw ( M4 - 0.7 × 10 )	橡膠螺絲	1
33	H0233-1	Front Cover ( Upper )	前蓋頂座	1
34	SV211	Screw ( M3 - 0.5 × 6 )	螺絲	3
35	VA14	Cover Latch Spring	夾簧	1
36	MFL080	Screw ( M4 - 0.7 × 8 )	螺絲	1
37	GA22	Screw ( M4 - 0.7 × 6 )	螺絲	1
38	SV239-1	Screw ( M4 - 0.7 × 8 )	螺絲	2
39	F0239	Thread Take-up Cover ( Front )	提線護蓋	1
40	SV215	Screw ( M3 - 0.5 × 5 )	螺絲	1
41	F0241-1	Shaft Sprocket Cover	齒輪護蓋	1
42	VB28-0	Washer	墊片	2
43	SV231	Screw ( M4 - 0.7 × 18 )	螺絲	2
44	VB42-1	Sticker	貼紙 (敬請注意)	1
45	VB42-5	Sticker	貼紙 (海棉貼紙)	1
46	VB42-6	Sticker	貼紙 (請每日檢查油量)	1
47	124064A	Sticker	貼紙 (穿線圖)	1
48	VB42-9	Sticker	貼紙 (注意)	1

3



MISCELLANEOUS THREAD EYELETS

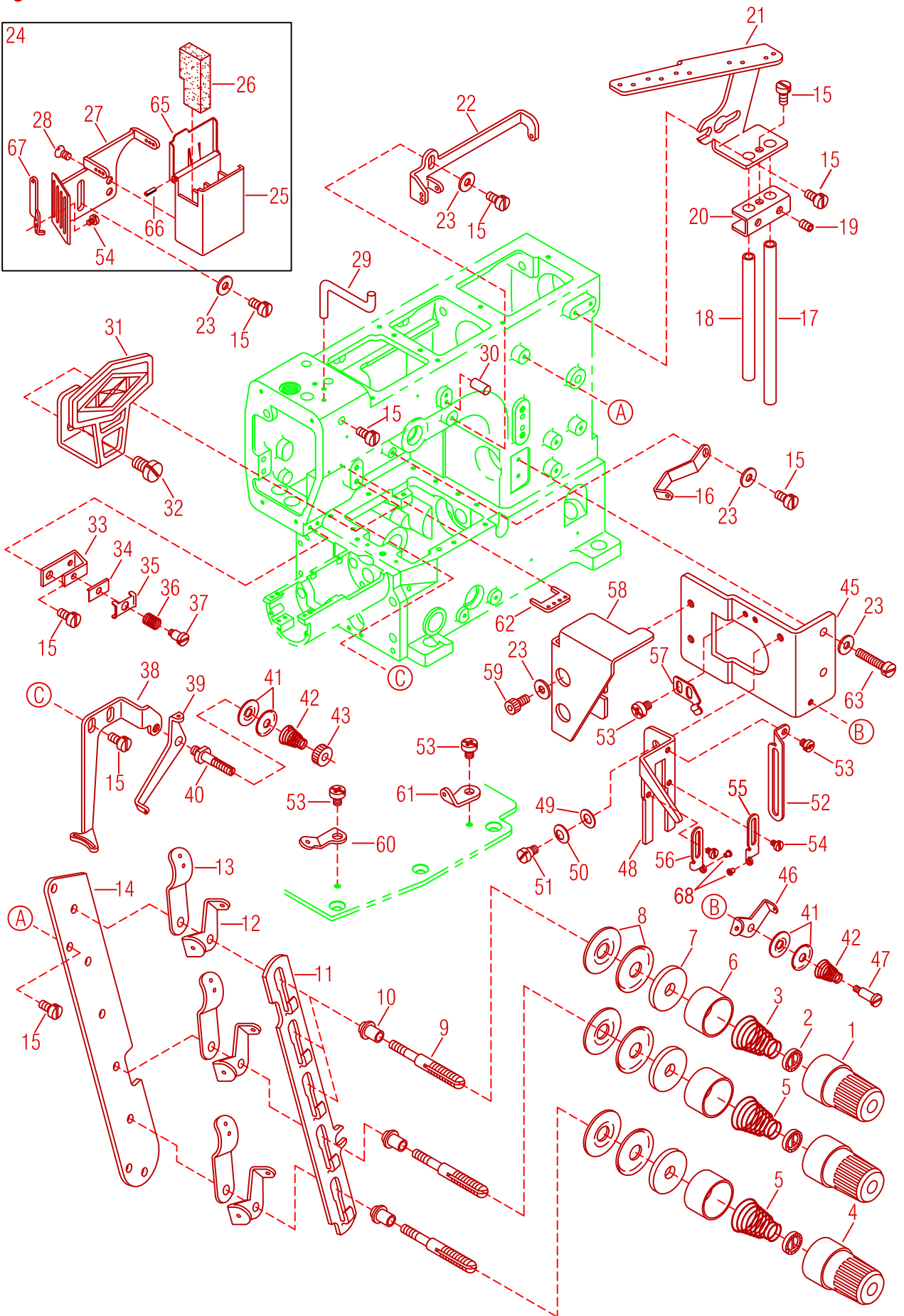
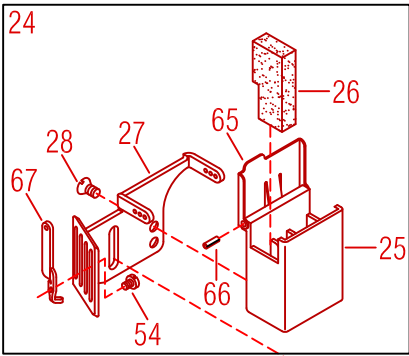
過線裝置及附件

3

Ref. No.	Parts No.	Description	產品名稱	Amt. Req.
1	FK20	Thread Tension Spring Cap ( R )	上線張力調整鈕 ( 紅 )	2
2	FK19	Tension Spring Disc Support	張力調整圓盤	5
3	VC03	Needle Thread Tension Spring	針線張力彈簧	3
4	FK20-1	Thread Tension Spring Cap ( B )	上線張力調整鈕 ( 藍 )	3
5	VC05	Top Cover Thread Tension Spring	上線張力彈簧	2
6	FJ21	Thread Tension Spring Retainer	上線張力彈簧固定座	5
7	FK12-1	Felt	氈墊	5
8	FK14	Tension Disc	張力過線盤(大)	10
9	VC09-1	Tension Post	上線張力彈簧支柱	5
10	VC10	Tension Post Ferrule	上線張力支柱隔環	5
11	VC11	Tension Disc Separator ( 5 Threads )	上線張力圓盤鬆線滑板(五線)	1
12	VC12	Tension Disc Eyelet	上飾線過線板	5
13	VC13	Thread Lead-in Guide	過線導片	5
14	VC14	Tension Post Support ( 5 Threads )	上線張力組支柱座(五線)	1
15	SV221	Screw ( M4 - 0.7 × 8 )	螺絲	13
16	VC16	Top Cover Thread Eyelet ( Left )	上飾線導線桿(左)	1
17	VC17	Thread Eyelet Pipe ( Long )	過線導管(長)	1
18	VC18	Thread Eyelet Pipe ( Short )	過線導管(短)	1
19	SV227	Screw ( M4 - 0.7 × 5 )	螺絲	2
20	VC20	Thread Eyelet Pipe Stay	過線導管固定座	1
21	VC21	Thread Guide Plate	過線導板	1
22	VC22	Top Cover Thread Eyelet ( Right )	上飾線過線桿(右)	1
23	WF04	Washer	墊片	2
24	F0324	SP Device , Complete Set	矽油盒組	1
25	VC25	SP Cover	矽油槽	1
26	VC26	Felt	氈墊	1
27	F0327	Needle Thread Eyelet	導線過線架	1
28	SF111	Screw ( SM 9/64 - 40 × 6.7 )	螺絲	2
29	VC29-1	Needle Thread Guide	針線導架	1
30	VC30	Guide Pin	固定插銷	1
31	VC31-2	Needle Thread Eyelet (No Brand)	揚線臂護線罩	1
32	SV262	Screw ( M6 - 1.0 × 10 )	螺絲	1
33	VC33	Needle Thread Retainer Support	針線張力調整組固定座(小)	1
34	VC34	Thread Retainer Disc Support	針線張力導板	1
35	VC35	Needle Thread Retainer Disc	針線張力調整組壓板(小)	1
36	VC36	Needle Thread Retainer Spring	針線張力彈簧	1
37	SV108-1	Screw ( SM 1/8 - 44 )	螺絲	1
38	VC38	Top Cover Thread Guide	上飾線導板	1
39	VC39	Supplementary Thread Guide	上飾線輔助導板	1
40	VC40	Tension Post	上飾線張力調整組支柱	1

※Ref. No. 41 to 68 . . . . . See the following page.

3



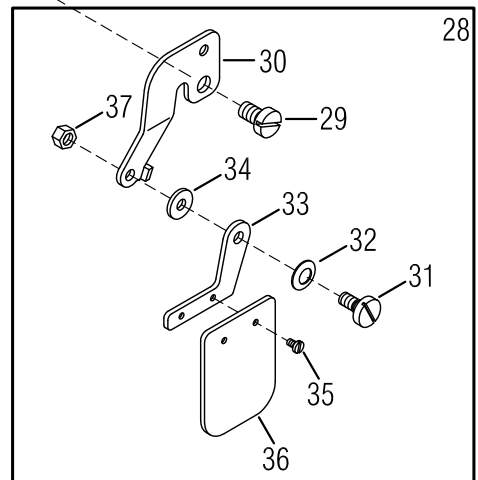
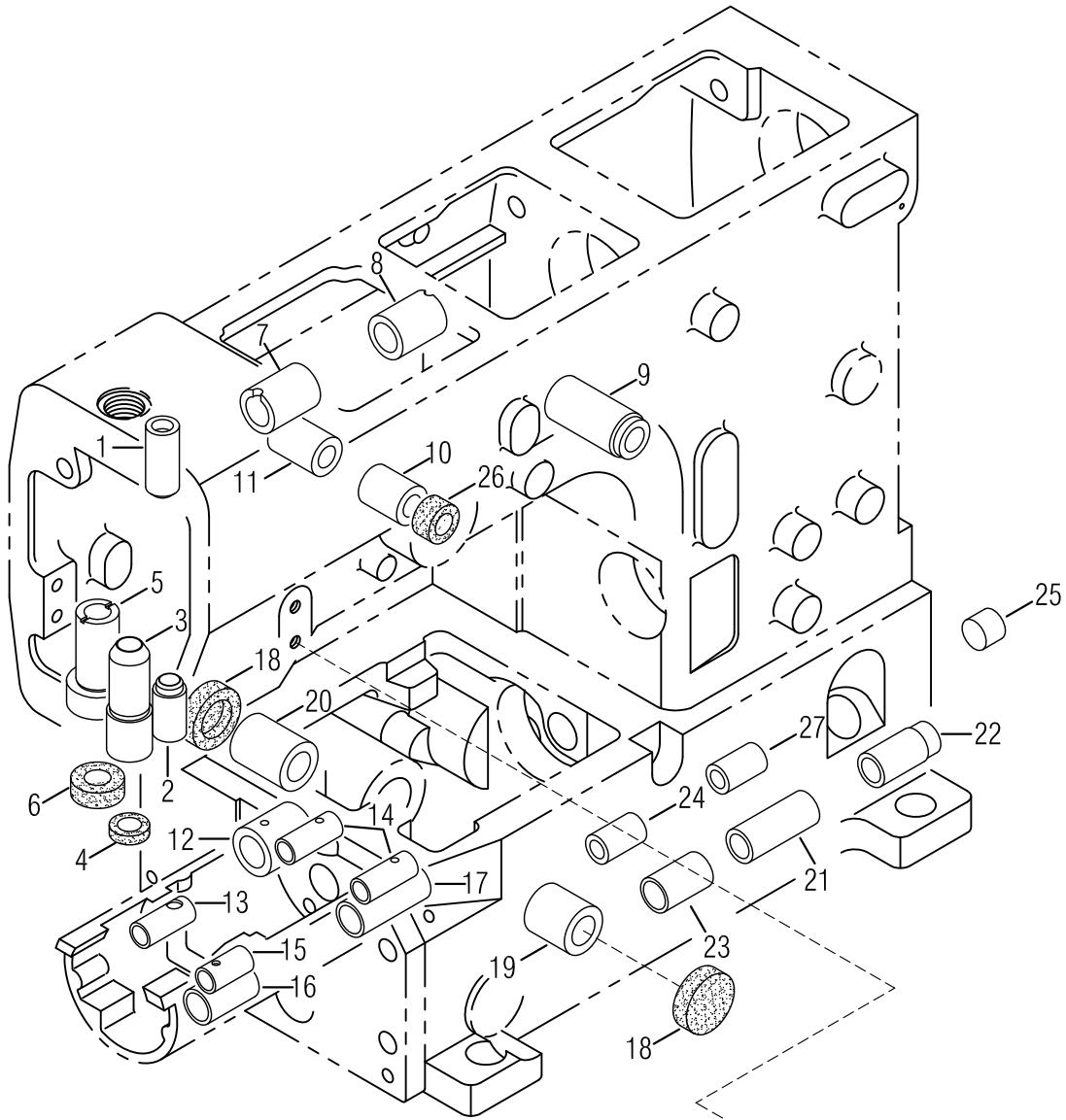
MISCELLANEOUS THREAD EYELETS

過線裝置及附件

3

Ref. No.	Parts No.	Description	產品名稱	Amt. Req.
41	FC24	Top Cover Tension Disc(Small)	上飾線過線盤(小)	4
42	VC42	Supplementary Tension Spring	彈簧	2
43	VC43	Nut	螺帽	1
44				
45	VC45	Thread Take-up Eyelet Bracket	提線組托架	1
46	VC46	Looper Thread Eyelet	下勾針過線板	1
47	SV218	Screw ( M3 - 0.5 )	螺絲	1
48	VC49-1	Thread Take-up Eyelet Holder	提線托板	1
49	VK48	Waher	墊片	1
50	VB29-1	Conical Spring Waher	錐形彈簧墊片	1
51	N0344	Screw ( M4 - 0.7 × 6.5 )	螺絲	1
52	VC53-1	Looper Thread Guide	下飾線托線板	1
53	SV210	Screw ( M3 - 0.5 )	螺絲	4
54	SV206	Screw ( M2.5 - 0.45 × 3.5 )	螺絲	5
55	VC55-1	Thread Take-up Eyelet ( Right )	調線板(右)	1
56	VC57-1	Thread Take-up Eyelet ( Left )	調線板(左)	1
57	VC58	Latch Spring	鎖門彈簧	1
58	VC59-3	Thread Take-up Cover ( Rear )	提線護蓋(後)	1
59	SF224	Screw ( M4 - 0.7 )	螺絲	2
60	F0360	Looper Thread Eyelet ( Center )	下飾線過線板(中)	1
61	VC62	Looper Thread Eyelet ( Right )	下飾線過線板(右)	1
62	FA10-4	Needle Thread Eyelet	針線過線板	1
63	SF221	Screw ( M4 - 0.7 × 20 )	螺絲	2
64				
65	VC25-1	Sp Container Cover	儲油槽蓋	1
66	PF10-1	Pin	空心銷	2
67	F0367	Thread Eyelet Support	導線支柱	3
68	J0865-2	Ceramic	陶瓷	2

※ Ref. No. 1 to 40 . . . . . See the preceding page.

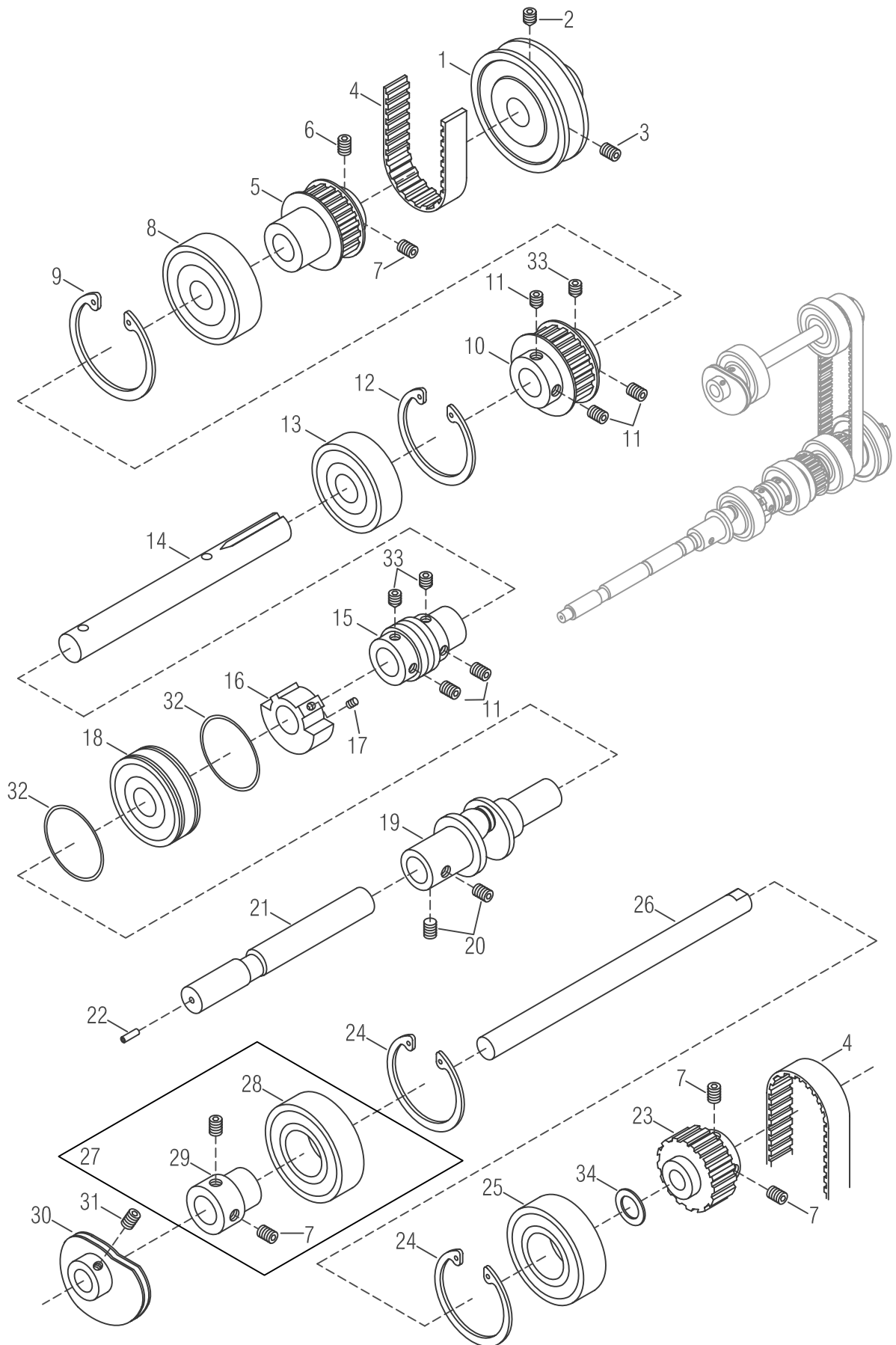


## MISCELLANEOUS BUSHINGS &amp; EYE GUARD

## 套管裝置及護目鏡

4

Ref. No.	Parts No.	Description	產品名稱	Amt. Req.
1	VD01-1	Needle Bar Bushing ( Upper )	針柱套管(上)	1
2	VD02	Needle Bar Bushing ( Lower )	針柱套管(下)	1
3	VD03	Persser Bar Bushing	壓腳套管	1
4	VD04	Oil Seal	止油環	1
5	VD05	Spreader Driving Bar Bushing	上飾線結線套管	1
6	VD06	Oil Seal	止油環	1
7	VD07-1	Spreader Driving Shaft Bushing ( Left )	上飾線結線器傳動軸套管(左)	1
8	VD08-1	Spreader Driving Shaft Bushing ( Right )	上飾線結線器傳動軸套管(右)	1
9	VD09-1	Foot Lifter Lever Bushing	抬壓腳連桿套管	1
10	VD10-1	Needle Thread Take-up Bushing ( Front )	針線揚線桿套管(前)	1
11	VD11-1	Needle Thread Take-up Bushing ( Rear )	針線揚線桿套管(後)	1
12	H0412-1	Lower Shaft Bushing	下傳動軸套管	1
13	H0413-1	Lower Shaft Bushing	差動送料具套管	1
14	H0414-1	Differential Feed Bar Shaft Bushing (Right)	送料具傳動軸套管(右)	2
15	H0415-1	Differential Feed Bar Shaft Bushing (Left)	送料具傳動軸套管(左)	1
16	H0416-1	Feed Bar Lift Shaft Bushing ( Left )	差動送料具傳動軸套管(左)	1
17	H0417-1	Feed Bar Lift Shaft Bushing ( Right )	差動送料具傳動軸套管(右)	1
18	VD21	Seal Plug	止油封塞	2
19	VD19	Looper Driving Shaft Bushing ( Front )	下勾針傳動軸套管(前)	1
20	VD20	Looper Driving Shaft Bushing ( Rear )	下勾針傳動軸套管(後)	1
21	H0421-1	Micro Differentiaal Feed Adjustment Bushing (Left)	微調差動軸套管(左)	1
22	H0422-1	Micro Differentiaal Feed Adjustment Bushing ( Right )	微調差動軸套管(右)	1
23	H0423-2	Rocker Shaft Bushing	搖臂軸套管	1
24	H0424-1	Feed Bar Lift Shaft Bushing ( Front )	送料具傳動軸套管(前)	1
25	H0425	Seal Plug	塑鋼塞	2
26	VD32	Oil Seal	止油環	1
27	H0427	Feed Bar Lift Shaft Bushing ( Rear )	送料具傳動軸套管(後)	1
28	VD22	Eye Guard, Complere Set	護目鏡組	1
29	SV262	Screw ( M6 - 1.0 × 10 )	螺絲	1
30	VD23	Eye guard Bracket	護目鏡固定座	1
31	SV126	Screw ( SM 11/64 - 40 )	螺絲	1
32	FA26	Conical Spring Washer	錐形彈簧墊片	1
33	VD27-1	Eye Guard Holder	護目鏡支架	1
34	FA24	Washer	墊片	1
35	SV104	Screw ( SM 3/32 - 56 × 5 )	螺絲	2
36	VD25	Eye Guard	護目鏡片	1
37	NF12	Nut	螺帽	1





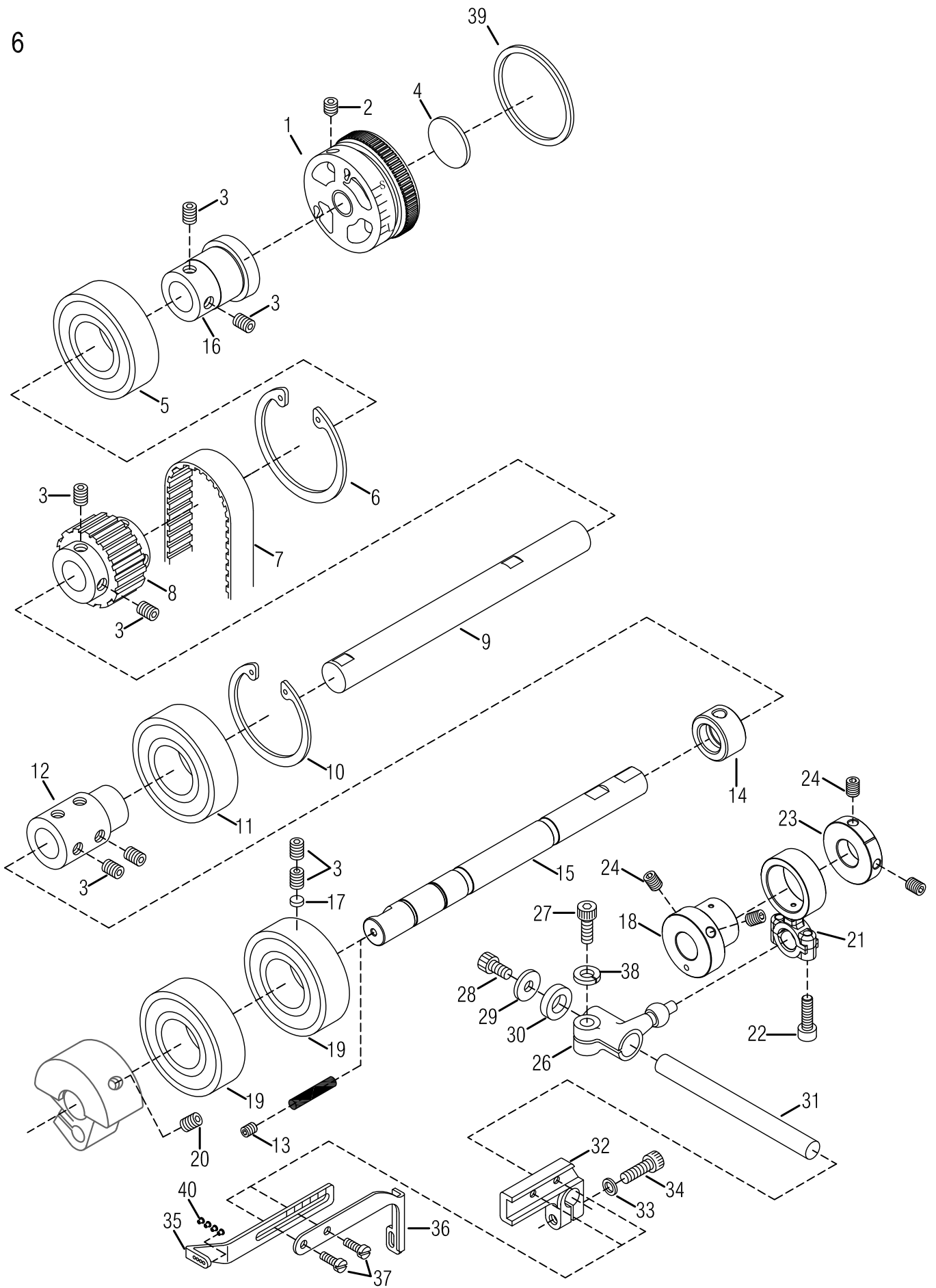
## MAIN SHAFT DRIVING MECHANISM

## 下主軸傳動機構

5

Ref. No.	Parts No.	Description	產品名稱	Amt. Req.
1	VE01	Pulley	皮帶輪	1
2	SV261	Screw ( M6 - 1.0 × 8 )	螺絲(尖)	4
3	SV264	Screw ( M6 - 1.0 × 8 )	螺絲	1
4	VE04-1	Timing Belt	齒形皮帶	1
5	G0505-1	Shaft Sprocket ( Lower )	齒形皮帶輪	1
6	SV257	Screw ( M5 - 0.8 × 7 )	螺絲	1
7	SV250	Screw ( M5 - 0.8 × 5 )	螺絲	5
8	VE06	Ball Bearing ( Right )	滾珠培林(右)	1
9	VE07	Retaining Ring	扣環	1
10	K0407-2	Main Shaft Sprocket ( Lower )	下主軸齒形輪	1
11	SF240	Screw ( M6 - 1.0 × 6 )	螺絲	5
12	VE09	Retaining Ring	扣環	1
13	VE10	Ball Bearing ( Middle )	滾珠培林(中)	1
14	VE11	Lower Shaft ( Right )	下傳動軸(右)	1
15	VE12	Oil Pump Driving Worm	油泵傳動螺桿	1
16	H0516	Counterweight ( Small )	平衡配重凸輪	1
17	SV227	Screw ( M4 - 0.7 × 5 )	螺絲	2
18	GE11-6	Ball Bearing ( Left )	滾珠培林(左)	1
19	H0519-1	Lower Crankshaft	下曲軸	1
20	SV260	Screw ( M6 - 1.0 × 5 )	螺絲	2
21	H0521-3	Lower Shaft ( Left )	下傳動軸(左)	1
22	H0522	Seal Plug	塑鋼塞	1
23	G0542-5	Thread Take-up Shaft Sprocket ( Upper )	上提線齒形輪	1
24	VE21	Retaining Ring	扣環	2
25	VE22	Ball Bearing	滾珠培林	1
26	F0526-1	Looper Thread Take-up Shaft	下勾針提線主軸	1
27	VE25	Adapter ( Left ) , C . Set	軸環組(左)	1
28	VE26LU	Ball Bearing	滾珠培林	1
29	VE27	Collar	軸套	1
30	F0530	Looper Thread Take-up	下勾針提線輪	1
31	SF142	Screw ( SM 7/32 - 32 × 4 )	螺絲	2
32	GE59	Oil Seal	O型環	2
33	SV271	Screw ( M6 - 1.0 × 6 )	螺絲(尖)	1
34	F1043	Washer	墊片	1

6

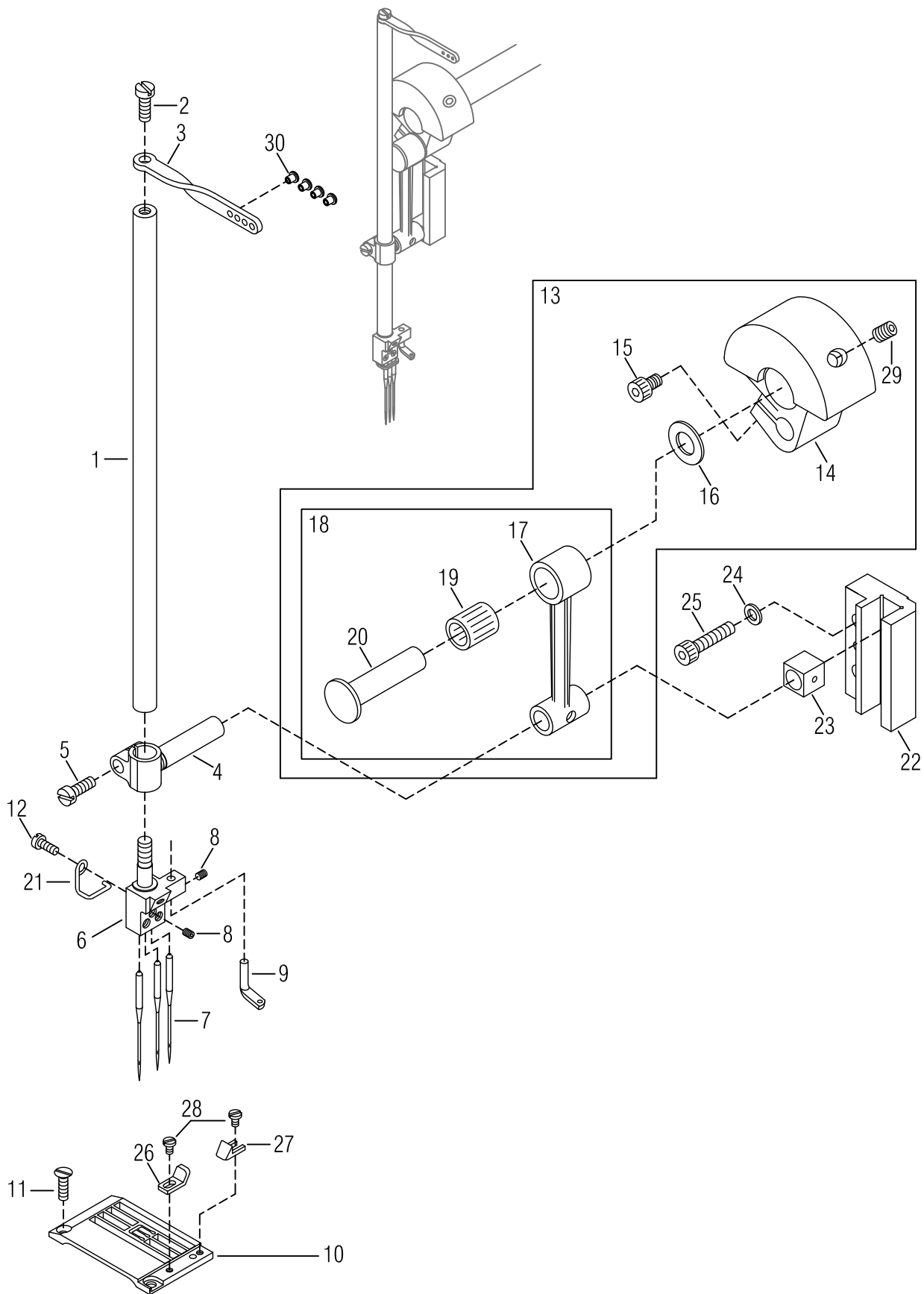


## UPPER SHAFT &amp; NEEDLE THREAD TAKE-UP MECHANISM

## 上主軸及針線揚線機構

6

Ref. No.	Parts No.	Description	產 品 名 稱	Amt. Req.
1	F0601-2	Handwheel	手推輪	1
2	SF241	Screw ( M6 - 1.0 × 10 )	螺絲	2
3	SF240	Screw ( M6 - 1.0 × 6 )	螺絲	12
4	VF04-2	Handwheel Mark (No Brand)	手推輪商標銘牌	1
5	VE06	Ball Bearing	滾珠培林	1
6	VE07	Retaining Ring	扣環	1
7	GF07	Timing Belt	同步傳動齒形皮帶	1
8	GF08	Upper Shaft Sprocket ( Upper )	上主軸齒形輪(上)	1
9	VF09-2	Upper Shaft	上主軸傳動軸	1
10	VE09	Retaining Ring	扣環	1
11	VE10	Ball Bearing	滾珠培林	1
12	VF12	Upper Shaft Joint	上主軸接頭	1
13	MEA050	Screw ( M3.5 - 0.6 × 5 )	螺絲	1
14	N0616	Oil Sleeve	聚油套環	1
15	N0617-2	Upper Crank Shaft	上曲軸	1
16	VF05-2	Adapter	軸套管	1
17	VF17	Rubber Seat	減震墊	1
18	N0621	Eccentric Thread Take - up	揚線偏心輪	1
19	VF19	Ball Bearing	滾珠培林	2
20	SV275	Screw ( M8 - 1.25 × 16 )	螺絲	2
21	N0636-1	Connecting Rod	萬向連桿	1
22	SV223	Screw ( M4 - 0.7 × 14 )	螺絲	2
23	N0622	Collar	定位環	1
24	SV264	Screw ( M6 - 1 × 8 )	螺絲	4
25				
26	VF26-2	Driving Lever	傳動桿	1
27	SV268	Screw ( M6 - 1.0 × 16 )	螺絲	1
28	SV252	Screw ( M5 - 0.8 × 10 )	螺絲	1
29	VF29	Washer	墊片	1
30	VF30	Spacer	襯套	1
31	VF31-1	Driving Shaft	傳動軸	1
32	VF32	Bracket	托架	1
33	SW06	Spring Washer	彈簧墊片	1
34	SV253	Screw ( M5 - 0.8 × 16 )	螺絲	1
35	VF35-2	Needle Thread Take-up	針線揚線桿	1
36	VF36	Top Cover Thread Take-up	上飾線揚線桿	1
37	SV310	Screw ( M3.5 - 0.6 × 8 )	螺絲	2
38	15-39	Spring Washer	彈簧華司	1
39	F0639-2	Color Ring ( Orange - 1585U )	色環(橘色)	1
40	J0865-2	Ceramic	陶瓷	4

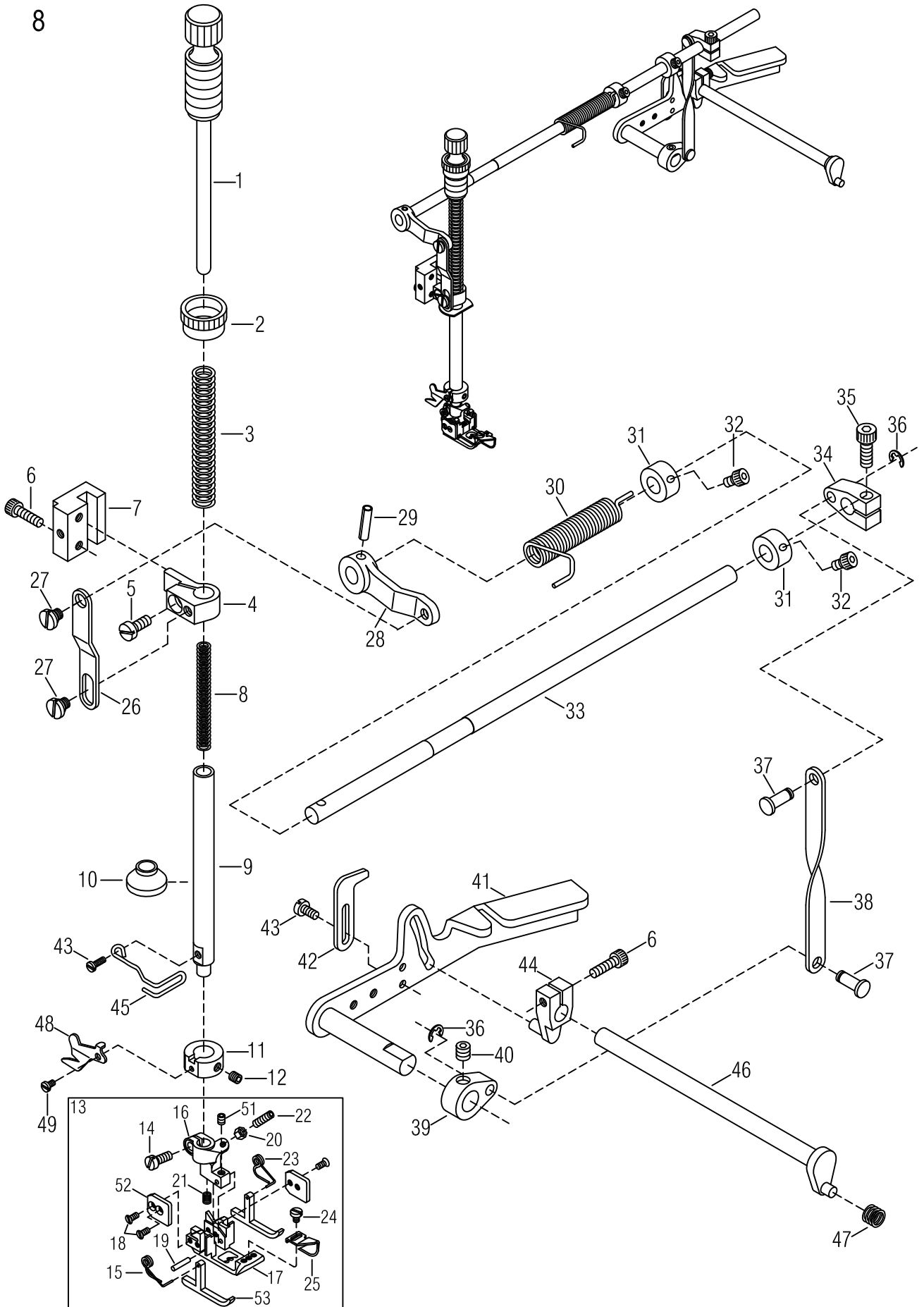


## NEEDLE BAR MECHANISM

## 針棒機構

Ref. No.	Parts No.	Description	產品名稱	Amt. Req.
1	VG01-1	Needle Bar	針柱	1
2	SF114	Screw ( SM 9/64 - 40 × 7.5 )	螺絲	1
3	VG03-2	Needle Bar Thread Eyelet	針柱頂線過線桿	1
4	F0704-2	Needle Bar Bracket	針柱驅動架	1
5	SV232	Screw ( M4 - 0.7 × 10 )	螺絲	1
6-1	VG240-2	Needle Clamp (240)(Optional)	(選購)針鉤 ( 2 針 4.0 L )	
6-2	VG248-2	Needle Clamp (248)(Optional)	(選購)針鉤 ( 2 針 4.8 L )	
6-3	VG356-2	Needle Clamp (356)(Optional)	(選購)針鉤 ( 3 針 5.6 L )	
6-4	VG360	Needle Clamp (360)(Optional)	(選購)針鉤 ( 3 針 6.0 L )	1
6-5	VG364-2	Needle Clamp (364)(Optional)	(選購)針鉤 ( 3 針 6.4 L )	
6-6	VG460-1	Needle Clamp (460)(Optional)	(選購)針鉤 ( 4 針 6.0 L )	
6-7	VG464-3	Needle Clamp (464)(Optional)	(選購)針鉤 ( 4 針 6.4 L )	
7	UY128#11	Needle (240、248、356、364、464) (Optional)	針(選購)	3
	MY1014B	Needle (452、460) (Optional)	針(選購)	4
8	SF106	Screw ( SM1 / 8 - 44 × 2.7 )	螺絲	4
9	FC38	Top Cover Thread Eyelet	上飾線過線桿	1
10-1	VG40212	Stitch Plate (240)(Optional)	(選購)針板 (240)(梯型)(4溝)	
10-2	VG402TN1	Stitch Plate (240)(Optional)	(選購)針板 (240)(梯型)(4溝)(薄料)	
10-3	VG48212	Stitch Plate (248)(Optional)	(選購)針板 (248)(梯型)(4溝)	
10-4	VG482TN1	Stitch Plate (248)(Optional)	(選購)針板 (248)(梯型)(4溝)(薄料)	
10-5	VG56312	Stitch Plate (356)(Optional)	(選購)針板 (356)(梯型)(4溝)	
10-6	VG5631133	Stitch Plate (356)(Optional)	(選購)針板 (356)(梯型)(4溝)(齒溝窄)	1
10-7	VG60311	Stitch Plate (360)(Optional)	(選購)針板 (360)(梯型)(4溝)	
10-8	VG56311CT	Stitch Plate (356)(Optional)(Yarn Thread)	(選購)針板 (356)(梯型)(4溝)(高士線)	
10-9	VG64312	Stitch Plate (364)(Optional)	(選購)針板 (364)(梯型)(4溝)	
10-10	VG6431133	Stitch Plate (364)(Optional)	(選購)針板 (364)(梯型)(4溝)(齒溝窄)	
10-11	VG60411	Stitch Plate (460)(Optional)	(選購)針板 (460)(梯型)(4溝)	
10-12	VG64411	Stitch Plate (464)(Optional)	(選購)針板 (464)(梯型)(4溝)	
11	SV215	Screw ( M3 - 0.5 × 5 )	針板螺絲	2
12	SF205	Screw ( M2.6 - 0.4 × 5 )	螺絲	1
13	F0712	Counterweight , Complete Set	平衡配重凸輪組	1
14	VG14-2	Counterweight	平衡配重凸輪	1
15	SV252-1	Screw ( M5 - 0.8 × 9 )	螺絲	1
16	VG16	Connecting Rod Ring	連桿襯墊	1
17	F0717	Connecting Rod	連桿	1
18	F0716	Connecting Rod , Complete Set	連桿組	1
19	VG19	Roller Bearing	培林	1
20	VG20	Connecting Rod Pin	連桿插銷	1
21	VG21-2	Eyelet Spring	針鉤固定線	1
22	F0722	Needle Bar Guide	針柱定位導槽	1
23	VG22	Slide Block	針柱定位滑塊	1
24	WF03	Washer	墊片	2
25	SV247	Screw ( M4 - 0.7 × 20 )	螺絲	2
26	VG36	Fabric Guide ( Left )	布導器(左)	1
27	VG35	Fabric Guide ( Right )	布導器(右)	1
28	SV102	Screw ( SM 3/32 - 56 × 5 )	螺絲	2
29	SV275	Screw ( M8 - 1.25 × 16 )	螺絲	2
30	J0865-2	Ceramic	陶瓷	4

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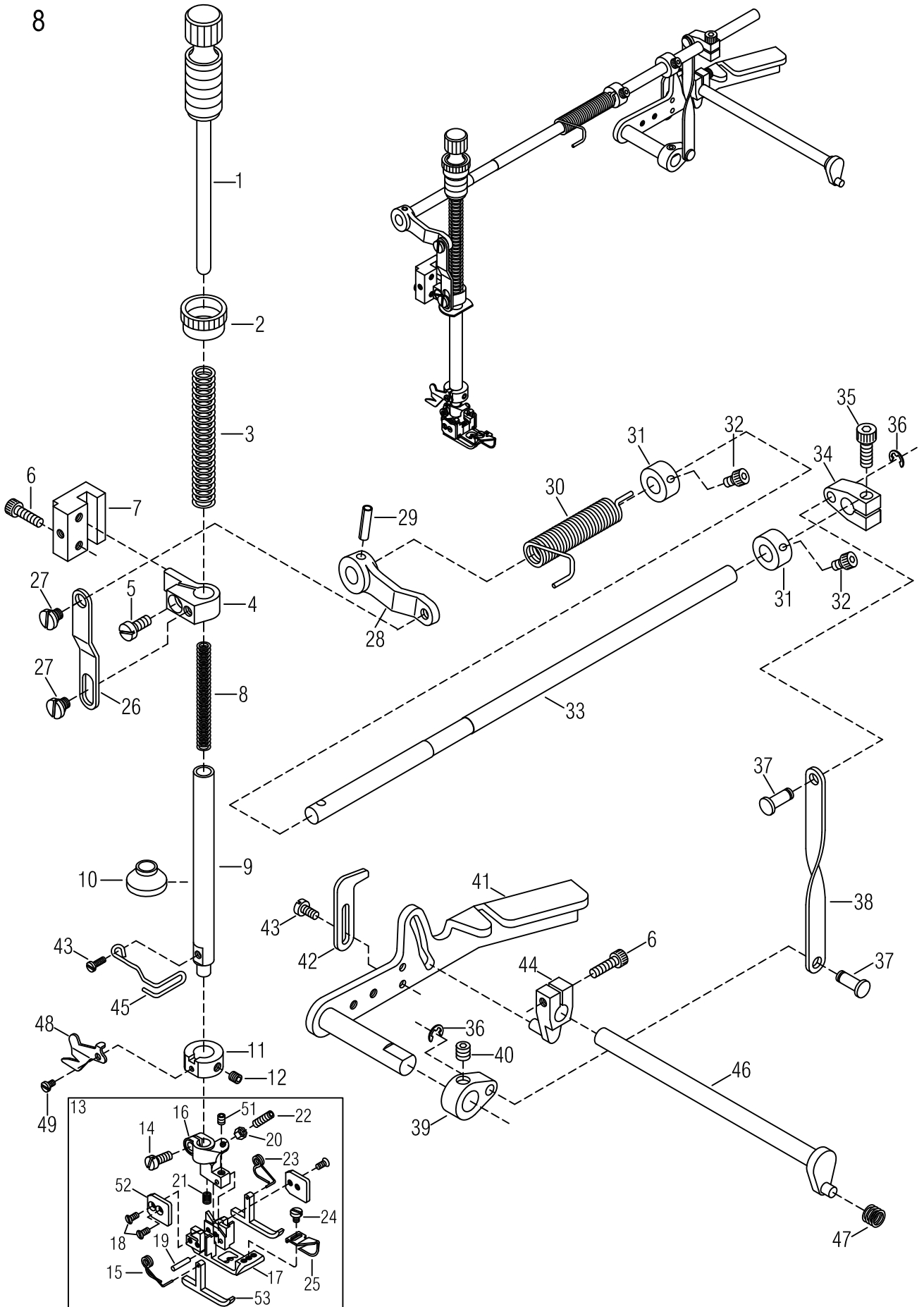
## PRESSER FOOT MECHANISM

## 押腳機構

Ref. No.	Parts No.	Description	產品名稱	Amt. Req.
1	VH01	Presser Spring Regulator	壓力調節樁	1
2	VH03	Lock Nut	螺帽	1
3	VH04	Presser Bar Spring ( Outer )	壓腳棒彈簧(外)	1
4	VH05	Presser Bar Connecting Bracket	壓腳固定臂	1
5	SF124	Screw ( SM 11/64 - 40 × 10.5 )	螺絲	1
6	SV223	Screw ( M4 - 0.7 × 14 )	螺絲	3
7	VH07	Presser Bar Guide	固定臂導槽	1
8	VH09	Presser Bar Spring ( Inner )	壓腳棒彈簧(內)	1
9	VH10	Presser Bar	壓腳桿	1
10	M0936	Oil Protector Ring	矽膠片	1
11	VH12	Collar ( 9 × 17 × 7mm )	限動環	1
12	SF228	Screw ( M4-0.7×4 )	螺絲	1
13-1	VH240	Presser Foot , Complete Set ( 240 )	壓腳組(2針4.0)	
13-2	VH248	Presser Foot , Complete Set ( 248 )	壓腳組(2針4.8)	
13-3	VH356	Presser Foot , Complete Set ( 356 )	壓腳組(3針5.6)	
13-4	VH360	Presser Foot , Complete Set ( 360 )	壓腳組(3針6.0)	1
13-5	VH364	Presser Foot , Complete Set ( 364 )	壓腳組(3針6.4)	
13-6	VH460	Presser Foot , Complete Set ( 460 )	壓腳組(4針6.0)	
13-7	VH464	Presser Foot , Complete Set ( 464 )	壓腳組(4針6.4)	
14	SF116	Screw ( SM 9/64 - 40 × 8 )	螺絲	1
15	VH16	Presser Foot Spring ( Left )	壓腳彈簧(左)	1
16	VH54	Upper Presser Foot	壓腳頭	1
17	VH55	Lower Presser Foot	壓腳底	1
18	SV103	Screw (SM 3/32 - 56 × 5 )	螺絲	4
19	VH20	Presser Foot Hinge Pin	壓腳結合插銷	1
20	NV11	Lock Nut	保險螺帽	1
21	VH21	Presser Foot Spring	彈簧	1
22	SV109	Screw ( SM 1/8 - 44 × 10 )	螺絲	1
23	VH24	Presser Foot Spring ( Right )	壓腳彈簧(右)	1
24	SV206	Screw ( M2.5 - 0.45 × 3.5 )	螺絲	1
25	VH26	Fabric Guide ( Long )	分割片	1
26	VH27	Lifter Link	提升連桿	1
27	SF134-1	Screw ( SM 3/16 - 32 )	螺絲	2
28	VH29	Lifter Link Lever	提升連結拉柄	1
29	VH30	Fastener Pin	固定銷	1
30	VH31	Lifter Spring	提升扭簧	1
31	VH32	Collor ( 8mm×16mm×8mm )	定位環	2
32	SF222	Screw ( M4 - 0.7 × 6 )	螺絲	4
33	VH34	Lifter Shaft	壓腳提升主軸	1
34	VH35	Intermediate Lever	連接拉柄	1
35	SF231	Screw ( M5 - 0.8 × 14 )	螺絲	1
36	EF03	Retaining Ring	扣環 ETW-3	2
37	VH39	Connecting Pin	連結銷	2
38	VH40	Connecting Plate	連結器	1
39	VH41	Lifter Lever ( Small )	提升拉柄(小)	1
40	SF240	Screw ( M6 - 1 × 6 )	螺絲	1

※ Ref. No. 41 to 53 . . . . . See the following page.

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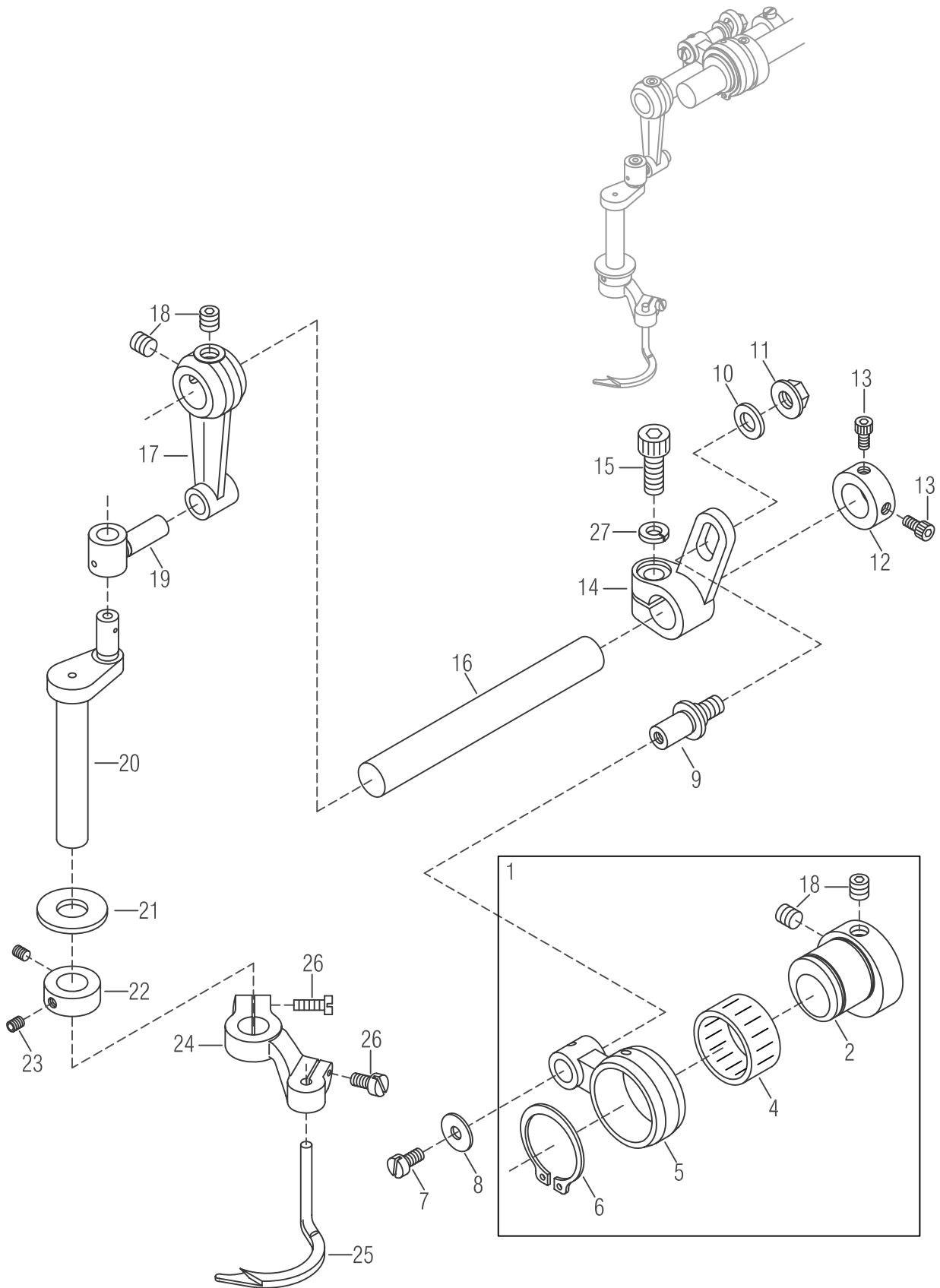
PRESSER FOOT MECHANISM

押腳機構

8

<u>Ref.</u> <u>No.</u>	<u>Parts</u> <u>No.</u>	<u>Description</u>	<u>產 品 名 稱</u>	<u>Amt.</u> <u>Req.</u>
41	VH42	Lifter Lever	揚升臂	1
42	VH43	Lifter Lever Stop	提升限位片	1
43	SF114	Screw ( SM 9/64 - 40 × 7 )	螺絲	3
44	VH46	Tension Release Lever	拉力釋放槓桿	1
45	GH47	Safety Spring	安全護線	1
46	VH48-2	Tension Release Shaft	拉力釋放曲軸	1
47	VH49	Vibration Absorb Spring	防震彈簧	1
48	VH50	Thread Chain Cutting Knife	割線刀	1
49	SV102	Screw ( SM 3/32 - 56 × 3.5 )	螺絲	1
50				
51	SF106	Screw ( SM 1/8 - 44 × 2.8 )	螺絲	1
52	VH52	Fixed Plate	方形固定片	2
53	VH53	Left Presser Foot Presser	T形船導片	2

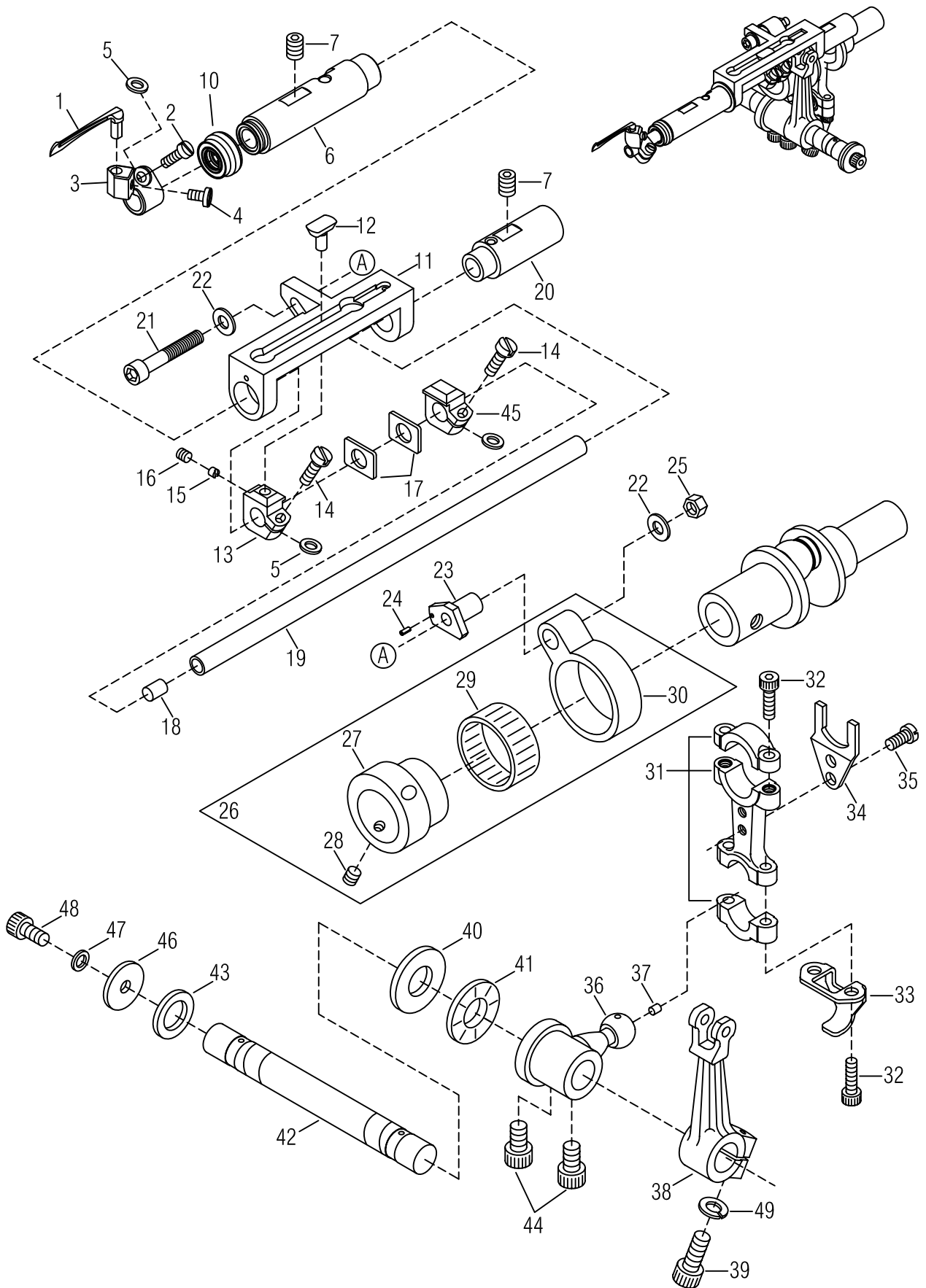
※ Ref. No. 1 to 40 . . . . . See the preceding page.



**SPREADER MECHANISM****上飾線勾針機構**

9

Ref. No.	Parts No.	Description	產 品 名 稱	Amt. Req.
1	VI01	Connecting Rod , Complete Set	偏心連桿組	1
2	VI02	Eccentric	偏心輪	1
3				
4	FH19	Roller Bearing	滾針培林	1
5	VI05	Connecting Rod	培林殼連桿	1
6	VI06	Retaining Ring	扣環	1
7	SV221	Screw ( M4 - 0.7 × 8 )	螺絲	1
8	VI08	Washer	墊片	1
9	VI09	Adjusting Lever Pin	可調式插銷	1
10	WF06	Washer	墊片	1
11	NF31	Nut ( M6 - 1.0 )	螺帽	1
12	VI12	Collar ( 12mm × 18mm × 7mm )	軸環	1
13	SF222	Screw ( M4 - 0.7 × 6 )	螺絲	2
14	VI14	Adjusting Lever	可調式接柄	1
15	SV268	Screw ( M6 - 1.0 × 16 )	螺絲	1
16	VI16-1	Driving Shaft	主動軸	1
17	VI17	Rocking Arm	搖臂	1
18	SF240	Screw ( M6-1.0×6 )	螺絲	4
19	VI19	Rocking Pin	延展臂	1
20	VI20-1	Spreader Bar	上勾針臂	1
21	VI21	Bushing Ring	襯片	1
22	VI22	Collar ( 10 × 18 × 7mm )	定位軸環	1
23	SF228	Screw ( M4 - 0.7 × 4 )	螺絲	2
24	VI24	Spreader Holder	裝飾線擺動臂	1
25	VI25	Spreader	裝飾線結線勾	1
26	SV222	Screw ( M4 - 0.7 × 12 )	螺絲	2
27	15-39	Spring Washer	彈簧華司	1



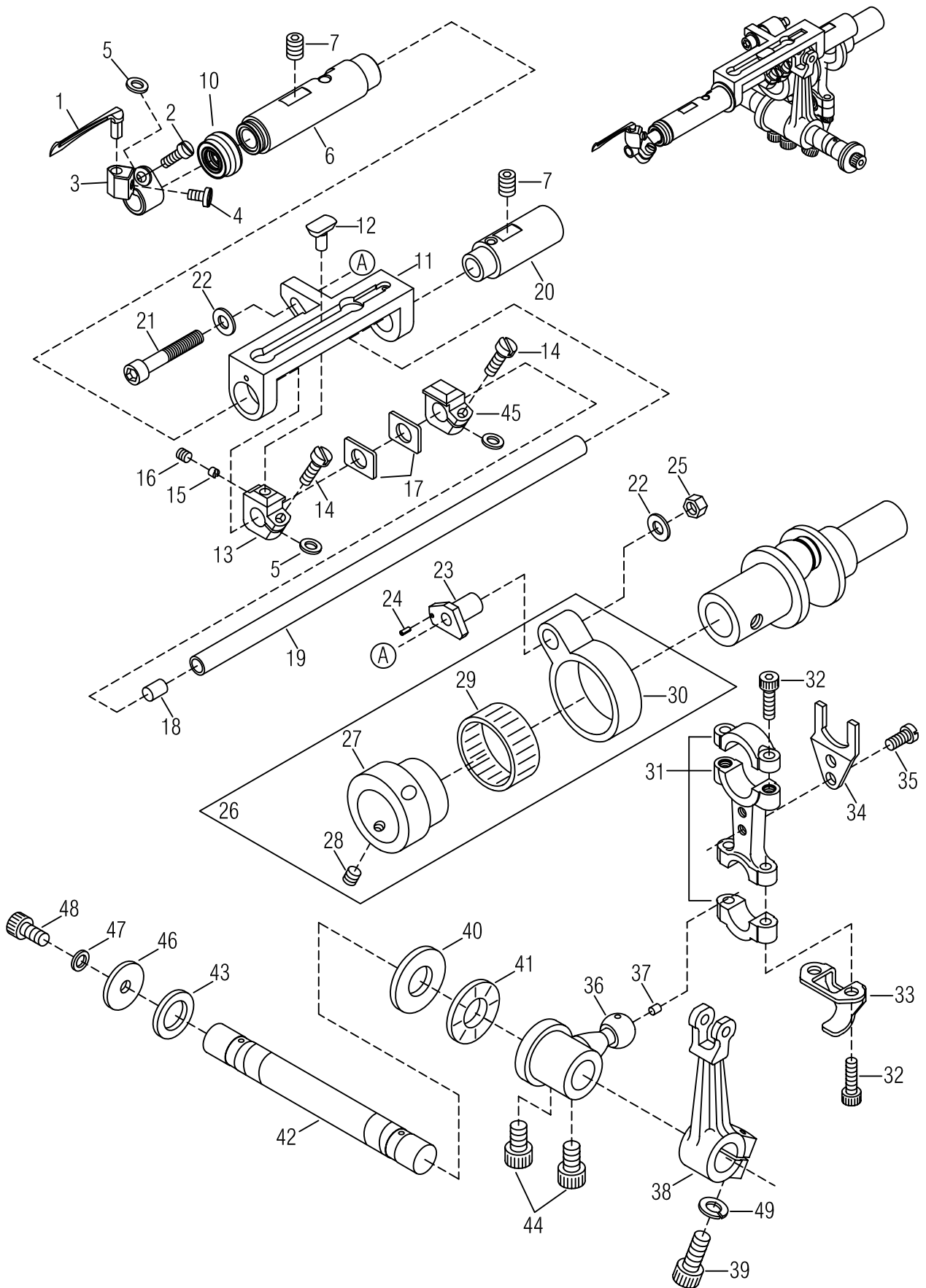
LOOPER DRIVING MECHANISM

下勾針驅動機構

10

Ref. No.	Parts No.	Description	產品名稱	Amt. Req.
1	VJ01-1	Looper	下勾針	1
2	SV310	Screw ( M3.5 - 0.6 × 8 )	螺絲	1
3	H1003-3	Looper Holder	結線勾座	1
4	MEA060	Screw ( M3.5 - 0.6 × 5 )	螺絲	1
5	VJ05	Spacer ( Fiber )	紅墊片	3
6	H1006-2	Looper Bar Bushing	下勾針驅動軸襯套(左)	1
7	SV264	Screw ( M6 - 1.0 × 8 )	螺絲	2
8				
9				
10	N1048	Oil Seal	止油環	1
11	VJ12-2	Looper Bar Guide	下勾針驅動軸導槽	1
12	VJ13-1	Slider	滑塊	1
13	H1013	Slider Holder ( L )	滑塊固定座(左)	1
14	MFB100	Screw ( M4 - 0.7 × 10 )	螺絲	2
15	VJ17	Slider Presser	滑塊定位壓塊	1
16	SF228	Screw ( M4 - 0.7 × 4 )	螺絲	1
17	VJ19	Silder Presser	止推墊片	2
18	VJ20	Seal Plug	封閉塞	1
19	VJ21-1	Looper Bar	驅動軸	1
20	H1020	Looper Bar Guide Shaft	下勾針驅動軸襯套(右)	1
21	SV254	Screw ( M5 - 0.8 × 30 )	螺絲	1
22	VJ25	Washer	墊片	2
23	VJ26	Looper Rocker Adjusting Pin	下勾針搖臂調整銷	1
24	VJ27	Roll Pin	棍子銷	1
25	NV12	Nut	螺帽	1
26	F1026	Looper Rocker Connecting Rod , C . Set	下勾針搖臂連桿組	1
27	F1027	Looper Rocker Regulating Eccentric	下勾針搖臂可調偏心輪	1
28	SV250	Screw ( M5 - 0.8 × 5 )	螺絲	1
29	VJ32	Roller Bearing	滾針軸承	1
30	VJ33	Looper Rocker Connecting Rod	下勾針培林殼連桿	1
31	VJ34	Looper Connecting Rod	雙球連桿	1
32	SV223	Screw ( M4 - 0.7 × 14 )	螺絲	4
33	VJ36	Oil Splashier	撥油片	1
34	VJ37-1	Guide Fork	定位叉	1
35	SV122	Screw ( SM 11/64 - 40 × 9 )	螺絲	2
36	VJ39-1	Looper Driving Lever	下勾針驅動桿	1
37	VJ40	Seal Plug	封塞	1
38	H1038	Looper Rocker Arm	下勾針搖臂	1
39	SV270	Screw ( M6 - 0.75 × 15 )	螺絲	1
40	VJ43	Thrust Plate	推力墊圈	1

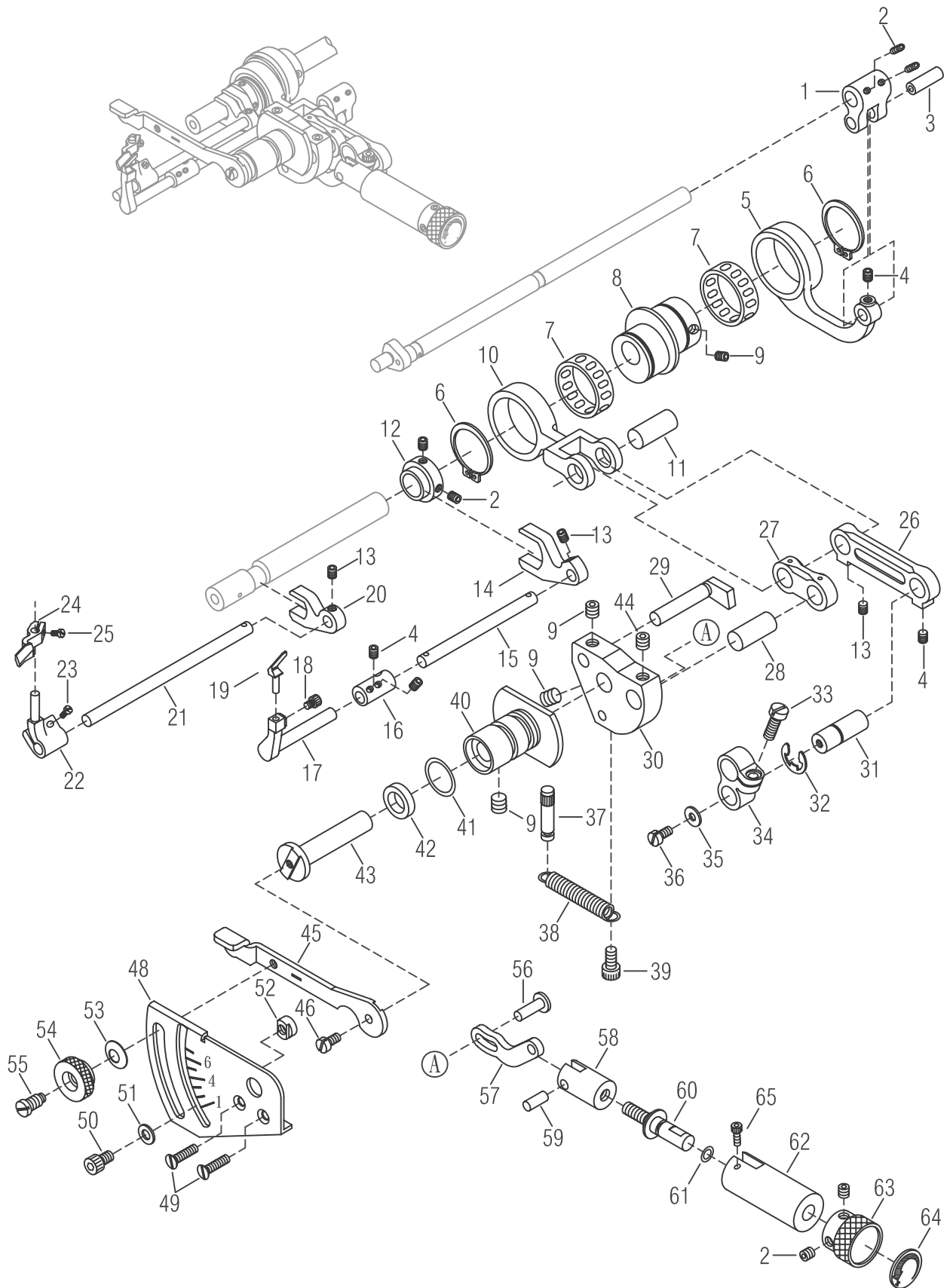
※ Ref. No. 41 to 49 . . . . . See the following page.



LOOPER DRIVING MECHANISM下勾針驅動機構

<u>Ref. No.</u>	<u>Parts No.</u>	<u>Description</u>	<u>產 品 名 稱</u>	<u>10 Amt. Req.</u>
41	VJ44	Thrust Roller Bearing	推力滾針培林	1
42	F1042-1	Looper Driving Shaft	下勾針主軸	1
43	F1043	Driving Washer	推力墊圈(小)	1
44	MIP080	Screw ( M6- 1.0 × 8 )	螺絲	2
45	H1045	Slide Holder ( Right )	定位塊(右)	1
46	F1046	Washer	墊片	1
47	SW06	Spring Washer	彈簧墊片	1
48	SV252	Screw ( M5 - 0.8 × 10 )	螺絲	1
49	15-39	Spring Washer	彈簧華司	1

※ Ref. No. 1 to 40 . . . . . See the preceding page.





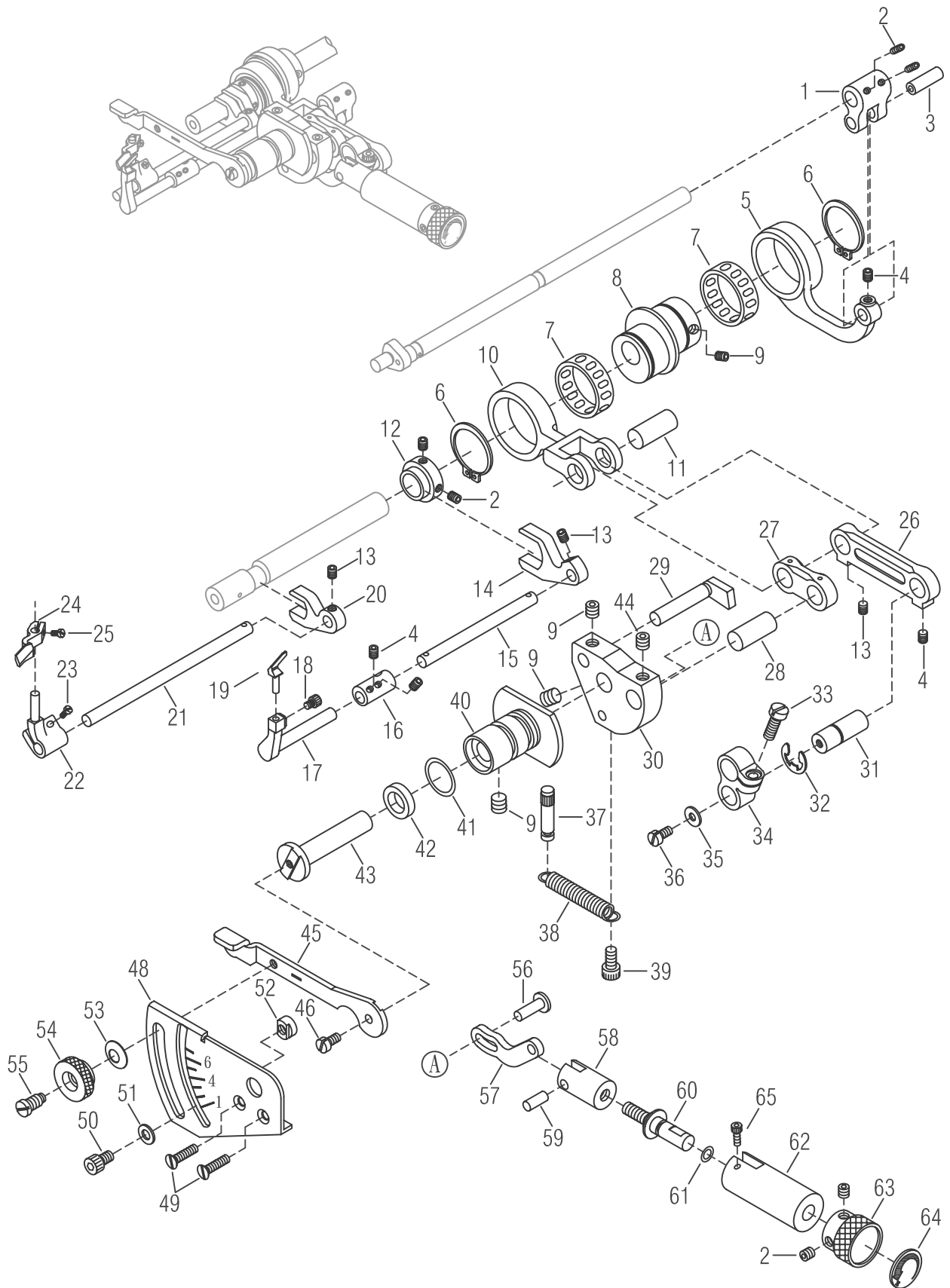
**FEED DRIVING CONTROL MECHANISM & NEEDLE GUARD**

**頂針與送料驅動調整機構**

11

Ref. No.	Parts No.	Description	產品名稱	Amt. Req.
1	H1101	Feed Lift Lever	送料具提升桿	1
2	SV250	Screw ( M5 - 0.8 × 5 )	螺絲	6
3	VK03	Connecting Rod Pin	連桿銷	1
4	SV242	Screw ( M4 - 0.7 × 3 )	螺絲	5
5	H1105	Feed Lift Connecting Rod	培林連桿	1
6	VK06	Retaining Ring	扣環	2
7	H1107	Roller Bearing	滾針培林	2
8	H1108-1	Feed Eccentric	送料具偏心輪	1
9	SF240	Screw ( M6 - 1.0 × 6 )	螺絲	5
10	H1110	Feed Connecting Rod	送料具連桿	1
11	VK11-1	Connecting Rod Pin	連桿軸 (長)	1
12	H1112	Needle Guard Eccentric	頂針片 偏心輪(前)	1
13	MFR050	Screw ( M4 - 0.7 × 5 )	螺絲	3
14	H1114	Needle Guard Lever ( Front )	頂針擺動曲柄(前)	1
15	H1115	Needle Guard Connecting Shaft	(前)頂針連接軸	1
16	H1116	Connecting Bushing	連接軸套	1
17	H1117-3	Needle Guard Holder ( Rear )	頂針固定座(前)	1
18	MDP040	Screw ( M3 - 0.5 × 4 )	螺絲	1
19	H1119-2	Needle Guard ( Front )	頂針片(前)	1
20	H1120	Needle Guard Lever ( Rear )	頂針擺動曲柄(後)	1
21	H1121-1	Needle Guard Connecting Shaft ( Rear )	(後)頂針連接軸	1
22	H1122	Needle Guard Holder ( Rear )	頂針固定座(後)	1
23	GB37	Screw ( M4 - 0.7 × 8 )	螺絲	1
24	H1124	Needle Guard ( Rear )	頂針片(後)	1
25	MDA060	Screw ( M3 - 0.5 × 6 )	螺絲	1
26	H1126	Lever Link ( Long )	提環桿(長)	1
27	VK13	Lever Link ( Short )	提環桿(短)	1
28	VK14-1	Connecting Rod Pin	連桿插銷	1
29	VK21	Connecting Rod Guide	連桿導軸	1
30	VK20	Control Bracket	三角承座	1
31	H1131	Lever Link Pin	棍子銷	1
32	H1132	Retaining Ring	扣環 ETW-8	1
33	SF220	Screw ( M4 - 0.7 × 10 )	螺絲	1
34	H1134	Differential Feed Shaft Lever	進給軸拉柄	1
35	VI08	Washer	墊片	1
36	SV221	Screw ( M4 - 0.7 × 8 )	螺絲	1
37	VK24	Spring Holding Pin	彈簧掛桿	1
38	VK22	Control Bracket Spring	拉簧	1
39	SV252	Screw ( M5 - 0.8 × 10 )	螺絲	1
40	H1140	Control Lever Shaft Bushing	控制桿軸銅襯套	1

※ Ref. No. 41 to 65 . . . . . See the following page.



## FEED DRIVING CONTROL MECHANISM &amp; NEEDLE GUARD

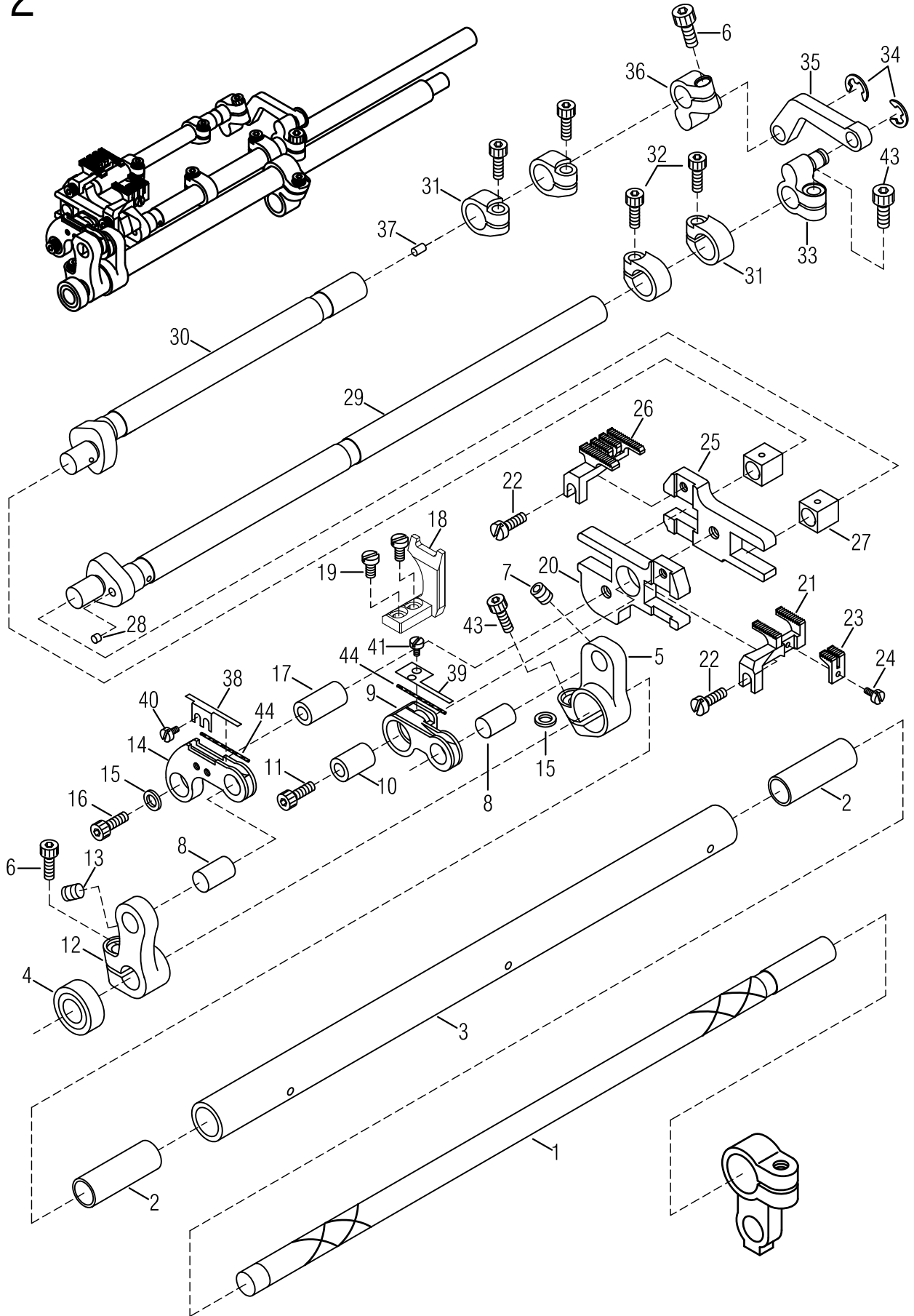
## 頂針與送料驅動調整機構

11

Ref. No.	Parts No.	Description	產品名稱	Amt. Req.
41	RV18	O Ring	O型油環	1
42	VK28	Oil Seal	油封	1
43	H1143-1	Control Lever Shaft	微調連桿	1
44	SV271	Screw ( M6 - 1.0 × 6 )	螺絲	1
45	VK38-1	Differential Feed Control Lever	差動控制桿	1
46	SV232	Screw ( M4 - 0.7 × 10 )	螺絲	1
47				
48	H1148-1	Stitch Length Graduations	針距尺寸刻度板	1
49	SV233	Screw ( M4 - 0.7 × 14 )	螺絲	2
50	SV259	Screw ( M5 - 0.8 × 6 )	螺絲	1
51	VK48	Washer	墊片	2
52	VK42	Spacer	控制桿止塊	2
53	VK43-1	Conical Spring Washer	錐形彈簧墊片	1
54	VK44	Nut	螺帽	1
55	SV267	Screw ( M6 - 1 , M4.5 - 0.5 )	螺絲	1
56	VK23	Pin	控制連桿插銷	1
57	H1157	Control Link	微調連桿	1
58	VK31-1	Nut	引動螺帽	1
59	VK32	Pin	棍子銷	1
60	VK33	Adjusting Screw	微調螺桿	1
61	RF21	O Ring	O型油環	1
62	VK34-1	Bushing	襯套	1
63	VK35	Adjusting Knob	針距微調旋鈕	1
64	VK37	Stitch Length Indicator	針距方向板	1
65	17-22	Screw ( M3 - 0.5 * 4 )	螺絲	1

※ Ref. No. 1 to 40 . . . . . See the preceding page.

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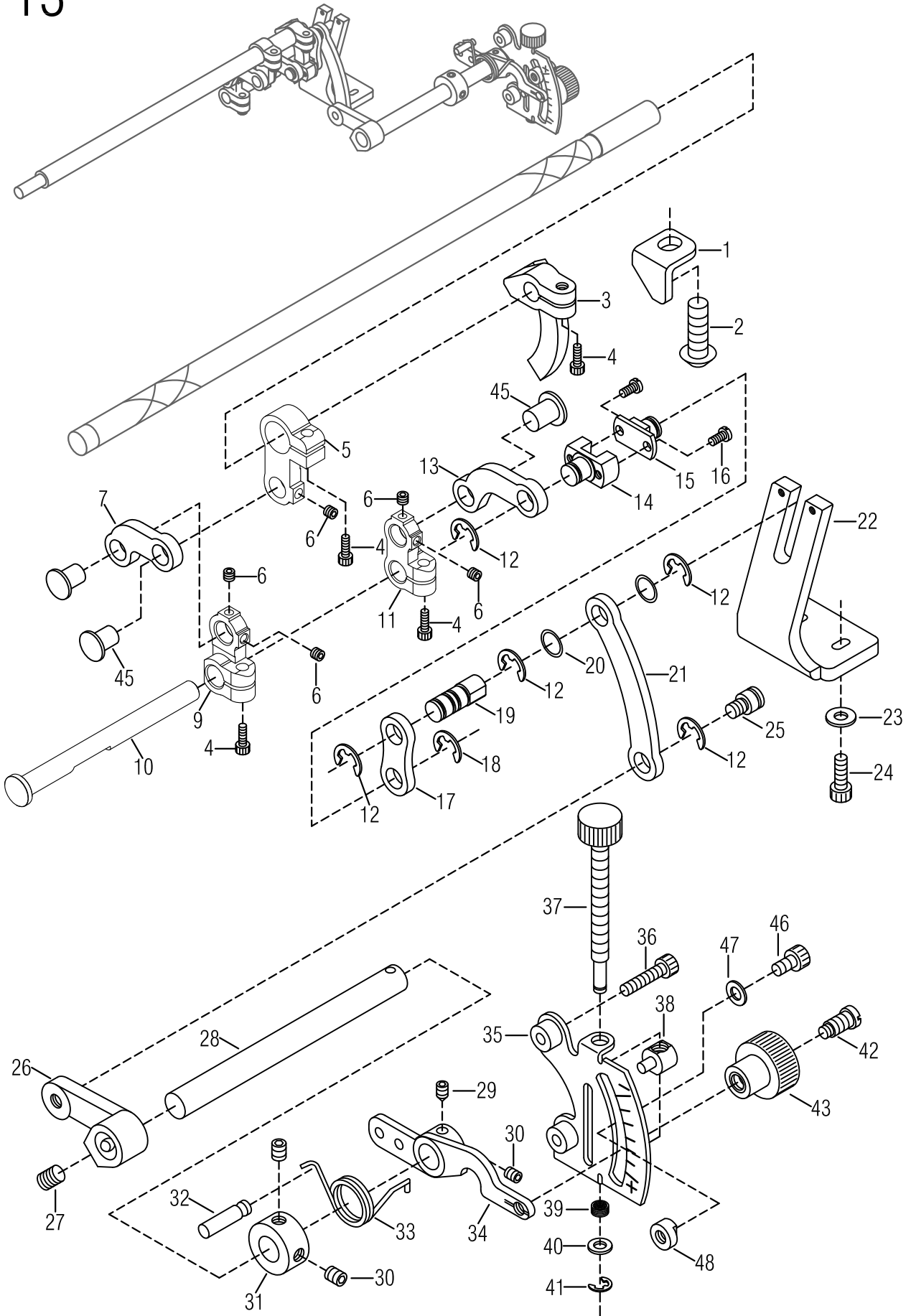
## FEED DRIVING MECHANISM

## 送料具驅動機構

12

Ref. No.	Parts No.	Description	產 品 名 稱	Amt. Req.
1	H1201	Differential Feed Shaft	差動軸	1
2	H1202-1	Bushing	鐵套	2
3	H1203	Roller Bearing	傳動軸	1
4	H1204	Roller Bearing	滾珠培林	1
5	H1205	Main Feed Lever	主送料具搖臂	1
6	SF225	Screw ( M4 - 0.7 × 10 )	螺絲	2
7	SCQ040-1	Screw ( SM 9/64 - 40 × 4 )	螺絲	1
8	H1208	Driving Connecting Pin	驅動連桿插銷	2
9	H1209	Main Feed Bar Connecting	主送料具驅動連杆	1
10	H1210	Driving Connecting Bushing	驅動連杆襯套(短)	1
11	SV223	Screw ( M4 - 0.7 × 14 )	螺絲	1
12	H1212	Differential Feed Lever	差動搖臂	1
13	SF106	Screw ( SM 1/8 - 44 × 2.7 )	螺絲	1
14	H1214	Differential Feed Driving Connection	差動驅動連杆	1
15	WF03	Washer	墊片	2
16	SV231NI	Screw ( M4 - 0.7 × 18 )	螺絲	1
17	H1217	Driving Connecting Bushing	驅動連桿襯套(長)	1
18	H1218-4	Guide Block	送料具導正塊	1
19	MDA060	Screw ( M3 - 0.5 × 6 )	螺絲	2
20	H1220-1	Differential Feed Bar	差動送料具驅動座	1
21	H1221-1	Differential Feed Dog	差動齒	1
22	MDA080	Screw ( M3 - 0.5 × 8 )	螺絲	2
23	H1223	Differential Feed Dog ( Middle )	差動齒(小)	1
24	SF205	Screw ( M2.6 - 0.45 × 5 )	螺絲	1
25	H1225-1	Main Feed Bar	主送料具座	1
26	H1226-2	Main Feed Dog	九齒(主齒)	1
27	H1227-1	Feed Lift Block	送料具滑塊	2
28	H1228	Seal Plug	塑鋼塞	1
29	H1229-6	Feed Lift Shaft	提升主軸	1
30	H1230-3	Feed Rocker Shaft	搖臂軸	1
31	H1231	Collar	軸環	4
32	MDP080NI	Screw ( M3 - 0.5 × 8 )	螺絲	4
33	H1233	Main Driving Lever	主驅動搖臂	1
34	EF03	Retaining Ring	扣環 ETW-3	2
35	H1235-1	Driving Shaft	驅動連桿	1
36	H1236	Driving Connecting Unit	驅動連接器	1
37	H0522	Seal Plug	塑鋼塞	1
38	H1238	Wick Clamp	夾片	1
39	H1239	Wick Clamp	夾片	1
40	MAA030	Screw ( M2 - 0.3 × 3 )	螺絲	2
41	MBA020	Screw ( M2.5 - 0.45 × 2 )	螺絲	1
42				
43	SF224	Screw ( M4 - 0.7 × 8 )	螺絲	2
44	H1240	Oil Wick	油蕊	2

13

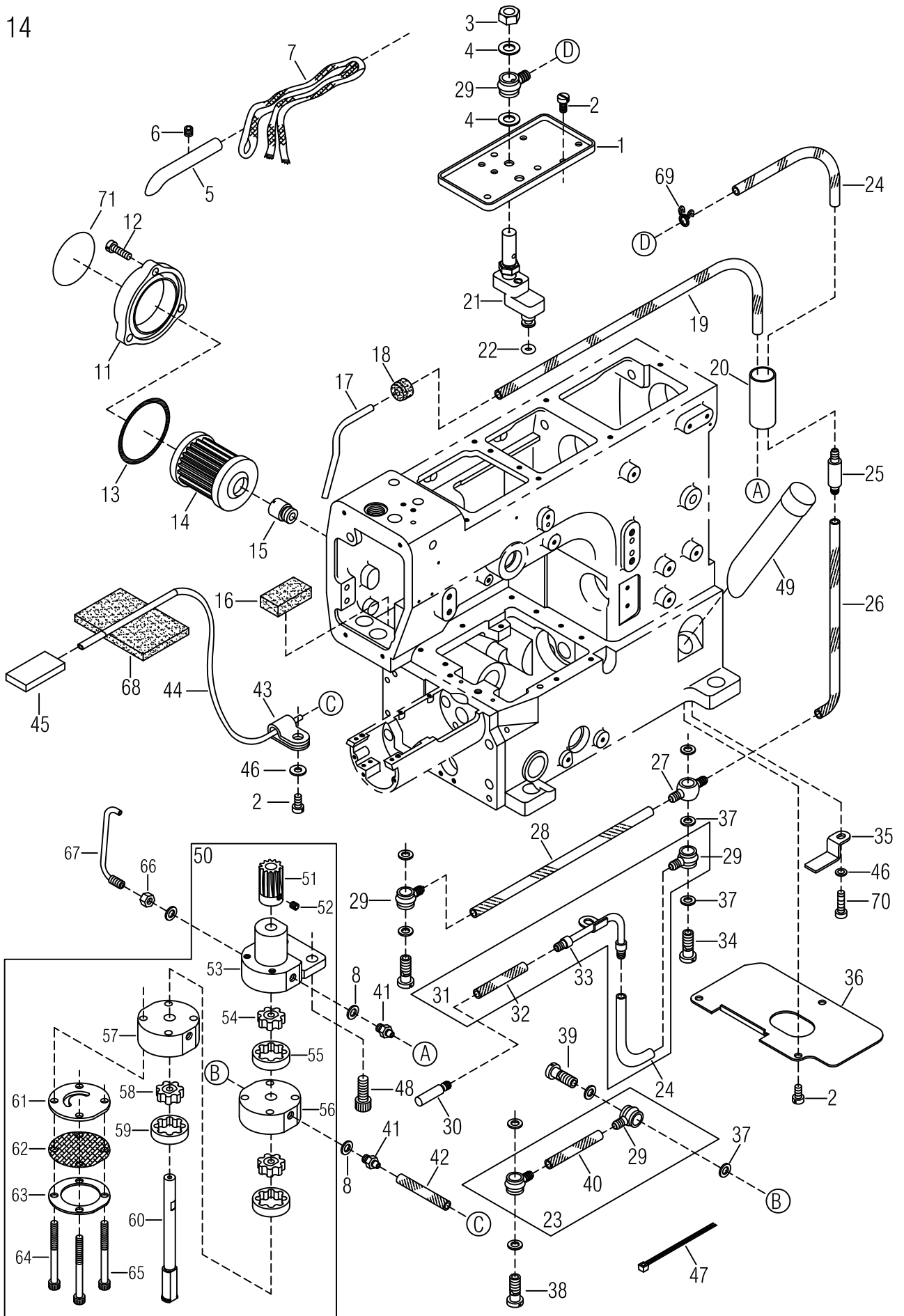


## DIFFERENTIAL FEED RATIO DEVICE

## 差動驅動調整機構

13

Ref. No.	Parts No.	Description	產 品 名 稱	Amt. Req.
1	H1301	Fixed Block	L型固定塊	1
2	MJT250	Scrw ( M8 - 1.25 × 25 )	螺絲	1
3	H1303	Differential Feed Rocker	差動弧臂	1
4	SF225	Screw ( M4 - 0.7 × 10 )	螺絲	4
5	H1305-1	Main Feed Rocker	主送料搖臂 20mm	1
6	SCQ040-1	Screw ( SM 9/64 - 40 × 4 )	螺絲	5
7	H1307-1	Link Lever ( Small )	連桿(小)	1
9	H1309-1	Rocker Unit	搖臂 15mm	1
10	H1310-1	Rocker Shaft	搖臂軸	1
11	H1311	Rocker Unit	搖臂 18mm	1
12	GK13	Rocker Ring	扣環 ETW-6	5
13	H1313-1	Link Lever	連桿(中)	1
14	H1314-1	Differential Feed Adjusting Block	差動調整滑塊	1
15	H1315	Stop Unit	差動調整滑塊蓋銷	1
16	SV212	Screw ( M3 - 0.5 × 6 )	螺絲	2
17	H1317-2	Link Lever	連動桿	1
18	H1318	Retaining Ring ( ETW - 5 )	扣環	1
19	H1319	Link Lever	連動軸	1
20	H1320-1	Washer	墊片	2
21	H1321-1	Connecting Rocker	連桿(大)	1
22	H1322	L Bracket	L型槽溝	1
23	WF04	Washer	墊片	2
24	SV223	Screw ( M4 - 0.7 × 14 )	螺絲	2
25	H1325	Screw	螺絲	1
26	H1326	Differential Feed Link Lever	差動連動臂	1
27	SF240	Screw ( M6 - 1.0 × 6 )	螺絲	1
28	H1328-3	Differential Feed Shaft	差動軸	1
29	MHR050	Screw ( M5 - 0.8 × 5 )	螺絲(尖)	1
30	MHQ030	Screw ( M5 - 0.8 × 3 )	螺絲	3
31	H1331-1	Collar	軸環	1
32	H1332-1	Pin	固定銷	1
33	H1333-1	Spring	扭簧	1
34	H1334	Differential Feed Control Lever	差動控制桿	1
35	H1335	Differential Feed Graduations	差動刻度板	1
36	MFP160NI	Screw ( M4 - 0.7 × 16 )	螺絲	2
37	H1337	Differential Feed Adjusting Screw	差動調整螺桿	1
38	H1338	Differential Feed Nut	差動螺帽	1
39	H1339	Spring	彈簧	1
40	WF04	Washer	墊片	1
41	H1341	Retaining Ring	扣環 ETW-2.5	1
42	SV267	Screw ( M6 - 1 , M4.5 - 0.5 )	螺絲	1
43	H1343	Adjusting Nut	調整螺帽	1
44				
45	H1345	Stop Pin	擋梢	3
46	SV259	Screw ( M5 - 0.8 × 6 )	螺絲	2
47	VK48	Washer	墊片	2
48	VK42	Differential Feed Lever Stop	差動臂止塊	2





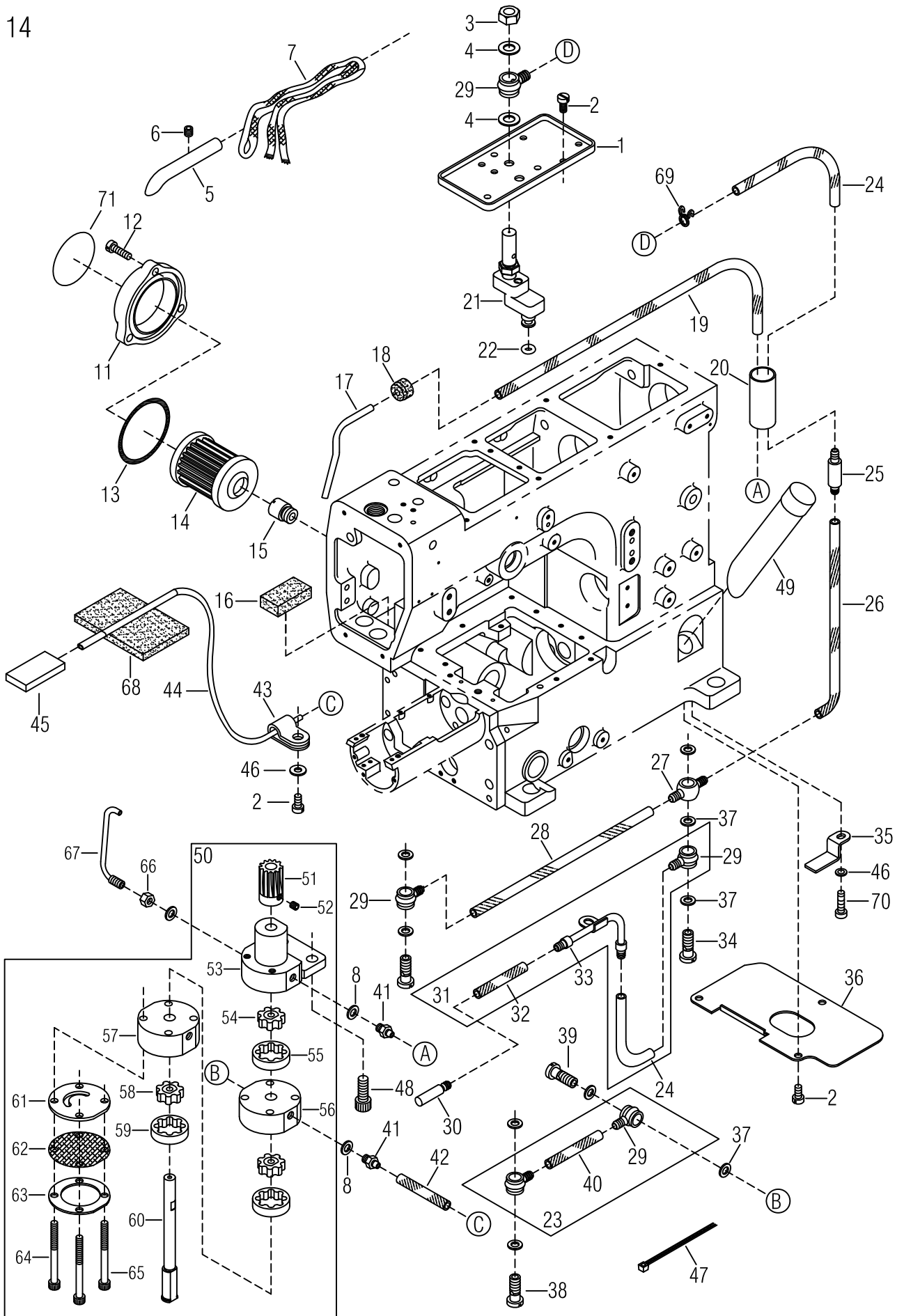
## LUBRICATING MECHANISM

## 給油迴油機構

14

Ref. No.	Parts No.	Description	產品名稱	Amt. Req.
1	VM01	Oil Receiver	承油盤	1
2	SV221	Screw ( M4 - 0.7 × 8 )	螺絲	5
3	NV13	Nut	螺帽	1
4	GB24	Washer	墊圈	2
5	VM05	Needle Bar	導油銅管	1
6	SV227	Screw ( M4 - 0.7 × 5 )	螺絲	1
7	VM07	Oil Wick	油蕊	1
8	FL14	Seal	墊片	3
9	VM09	Oil Wick Holder	油蕊固定器	1
10	SF114	Screw ( SM 9/64 - 40 × 7 )	螺絲	1
11	FL19-2	Oil Filter Cap	濾油封蓋	1
12	SF127	Screw ( SM 11/64 - 40 × 16 )	螺絲	3
13	RF28	Oil Ring ( P42 )	O形油環	1
14	FL20	Oil Filter	濾油器	1
15	FL21	Oil Filter Connector	濾油器連接頭	1
16	VM16	Felt	吸油棉(上)	1
17	VM17	Suction Pipe	迴油管	1
18	VM18	Suction Pipe Bushing	迴油管固定塞	1
19	VM19	Oil Tube ( 3 × 5 × 490 mm )	油管	1
20	VM20	Draining Pipe	油路套管	1
21	N1304-1	Oil Sight Top Nozzle	外視油量上噴嘴	1
22	L1202	O-ring	O型環	1
23	VM39	Oil Tube (Short) ,Complete Set	油管組(短)	1
24	VM24-1	Oil Tube ( 4×6×160mm )	油管	2
25	VM25	One-return Valve Unit	止口閥	1
26	VM26	Oil Tube ( 4 × 6 × 265 mm )	油管	1
27	VM27	Oil Tube Joint , Two Way	雙向油管接頭	1
28	VM28	Oil Tube ( 4×6×35mm )	油管(4×6×35mm)	1
29	VM29-1	Oil Tube Joint , One Way	單向油管接頭	5
30	H1430	Lower Shaft Oiling Outlet	轉軸部噴油頭	1
31	VM31	Oil Tube (Middle) ,Complete Set	勾針軸噴油組	1
32	VM32	Oil Tube ( 4 × 6 × 70 mm )	油管(4×6×70mm)	1
33	VM33	Lower Shaft Oiling Shower	勾針軸噴油孔	1
34	SV141	Fitting Stud (Long)	放油螺絲(長) 2孔	1
35	H1435	Fitting Sud (Short)	油管固定器	1
36	H1436-1	Dust-proof Plate	防塵蓋	1
37	VM37	Oil Sight Gauge	紅墊片	9
38	SV140	Fitting Stud ( Short )	放油螺絲(短) 1孔	2
39	SV263	Fitting Stud	轉油螺絲	1
40	VM34	Oil Tube (4×6×33mm)	油管(4×6×33mm)	1

※ Ref. No. 41 to 71 . . . . . See the following page.



## LUBRICATING MECHANISM

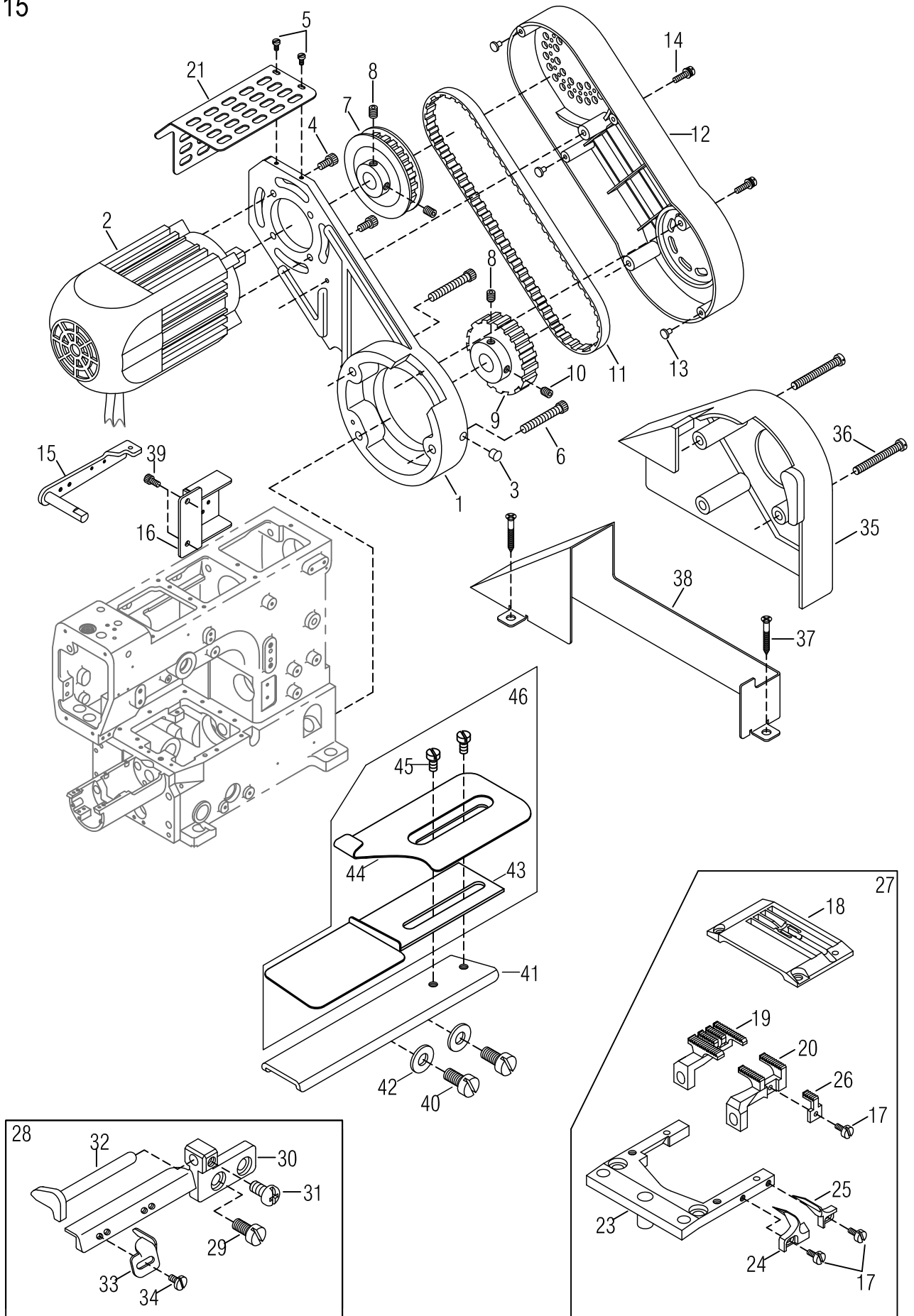
## 給油迴油機構

14

Ref. No.	Parts No.	Description	產 品 名 稱	Amt. Req.
41	H1441-L	Oiling Nozzle for upper bed	迴油油嘴	2
42	H1442	Suction Pipe	吸油管(3×5×200)	1
43	FL29	Tube Retainer	固定扣	2
44	H1444	Nut Oiling Recycle Tube	迴油銅管(3×260mm)	1
45	VM50	Oiling Sponge	吸油棉(下)	1
46	WF04	Washer	墊片	2
47	H1447	Fixed Belt	鎖式絮帶	1
48	SF244	Screw ( M6-1.0×16)	螺絲	2
49	H1449	Oil Sight Gauge	外視油量計	1
50	VM40	Oil Pumping Set	油泵組	1
51	VM41	Oil Pump Driving Worm Gear	油泵驅動蝸齒	1
52	SF228	Screw ( M4 - 0.7 × 4 )	螺絲	2
53	VM40-11	Pump Upper Base	油泵主體	1
54	VM40-32	Inner Gear	內輪子(薄 6mm)	2
55	VM40-62	Outer Gear	外輪子(薄 6mm)	2
56	VM40-21	Pump Inner Base	油泵中層	1
57	VM40-31	Pump Lower Base	油泵下層	1
58	VM40-42	Inner Gear	內輪子(厚 7.5mm)	1
59	VM40-52	Outer Gear	外輪子(厚 7.5mm)	1
60	F1364	Center Shaft	油泵主軸	1
61	VM40-2	Lower Base Washer	油泵底座墊片	1
62	VM40-8	Oil Filter	油泵濾網	1
63	VM40-9	Filter Plate	濾網固定環	1
64	SV238	Screw ( M4 - 0.7 × 45 )	螺絲	2
65	SV237	Screw ( M4 - 0.7 × 40 )	螺絲	2
66	NV12	Nut	螺帽	1
67	VM46	Oil Nozzle for Worm Gear	驅動蝸齒噴油嘴	1
68	H1468	Felt	吸油棉	1
69	VM35-1	Oil Tube Clamp	油管束子	1
70	SV223	Screw ( M4 - 0.7 × 14 )	螺絲	1
71	FL26	Sticker	濾油貼紙	1

※ Ref.No. 1 to 40 . . . . . See the preceding page.

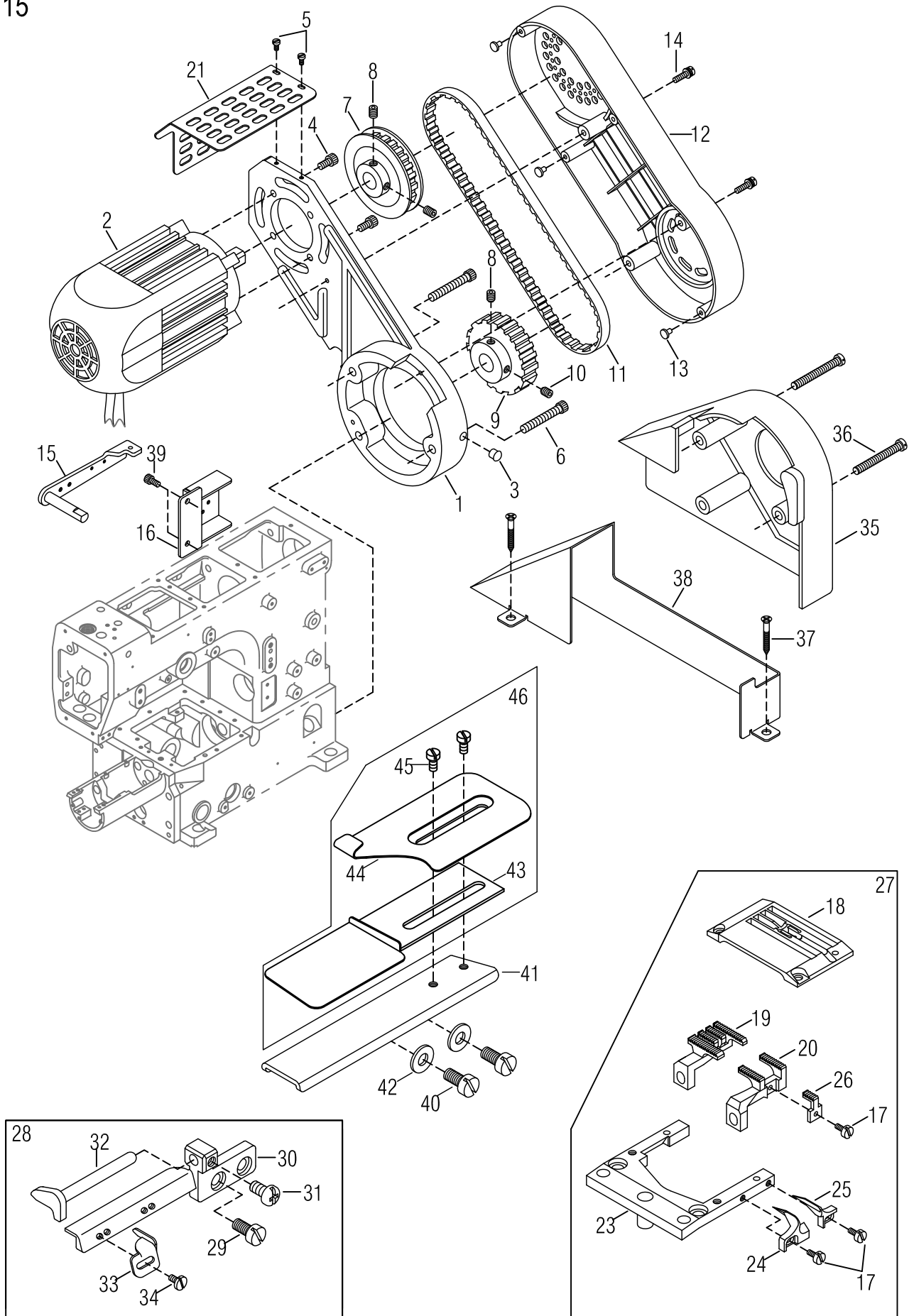
15



COMPACT-SIZE SERVO MOTOR & ATTACHMENT (OPTIONAL)				電子小馬達傳動機構&專屬配件(選購)	15
Ref. No.	Parts No.	Description	產品名稱	Amt. Req.	
1	F1604-1	Bracket	馬達支撐架	1	
2	F1602	Compact Servo Motor	傳動小馬達	1	
3	RF06-1	Head Cover Seal Plug	膠塞	1	
4	SF230	Screw ( M5 - 0.8 × 12 )	螺絲	4	
5	SV208	Screw ( M3 - 0.5 × 4.4 )	螺絲	4	
6	SF243	Screw ( M6 - 1.0 × 25 )	螺絲	3	
7	F1607-1	Transmission Gear	齒型帶動輪	1	
8	SV264	Screw ( M6 - 1.0 × 8 )	螺絲	3	
9	F1609-1	Synchronized Gear	同步帶動輪	1	
10	SV261	Screw ( M6 - 1.0 × 8 )	螺絲	1	
11	F1611	Synchronized Belt	同步傳動皮帶	1	
12	F1612	Belt Guard	皮帶安全蓋	1	
13	F1613	Vivration Absorb Plug	減震橡膠塞	4	
14	MFL160	Screw ( M4 - 0.7 × 16 )	螺絲	3	
15	F1615	Foot Lift Lever	壓腳提升柄	1	
16	F1616	Solenoid Base	電子閥固定座	1	
17	SF205	Screw ( M2.6 - 0.45 × 5 )	螺絲	3	
18	VG56323	Stitch Plate (Fabric Guide )(356)(Optional)	(選購)針板 (立骨)(356)(斜度)(中溝)	1	
	VG64323	Stitch Plate (Fabric Guide )(364)(Optional)	(選購)針板 (立骨)(364)(斜度)(中溝)		
19	H1226-2	Main Feed Dog	主齒 (九齒)	1	
20	H1221-1	Differential Feed Dog	差動齒	1	
21	F1621	Safety Cover	小馬達安全蓋	1	
22					
23	H0215-1	Stitch Plate Support	針板支架	1	
24	14-19	Fabric Guide ( Left )	立骨布導器(左)	1	
25	14-20	Fabric Guide ( Right )	立骨布導器(右)	1	
26	VL42-1	Differential Feed Dog ( Middle )	小齒(壹齒)	1	
27	H1527	Gauge Set For Covering Seam	立骨布器配件組	1	
28	H1528	Bottom Hemming Folder	折下擺組	1	
29	MDA060	Screw (M3 - 0.5 × 6)	螺絲	1	
30	H1530	Folder Stand	折下擺固定座	1	
31	M0908	Screw ( M4 - 0.7 × 8 )	螺絲	1	
32	F1404	Width Aadjuster	可調擋邊	1	
33	F1405	Fabric Edge Guide ( Left )	左擋邊	1	
34	GB08	Screw ( M3 - 0.5 × 3.5 )	螺絲	1	
35	H1535-1	Belt Guard (Top)	皮帶蓋 ( 上 )	1	
36	15-28	Screw ( M6 - 1.0 × 48 )	螺絲	3	
37	15-24	Screw ( SM5/32 )	木栓螺絲	3	
38	H1538	Belt Guard	皮帶安全蓋	1	
39	SV221	Screw (M4 - 0.7 × 8)	螺絲	2	
40	GJ36	Screw ( M4 - 0.7 × 5.8 )	螺絲	2	

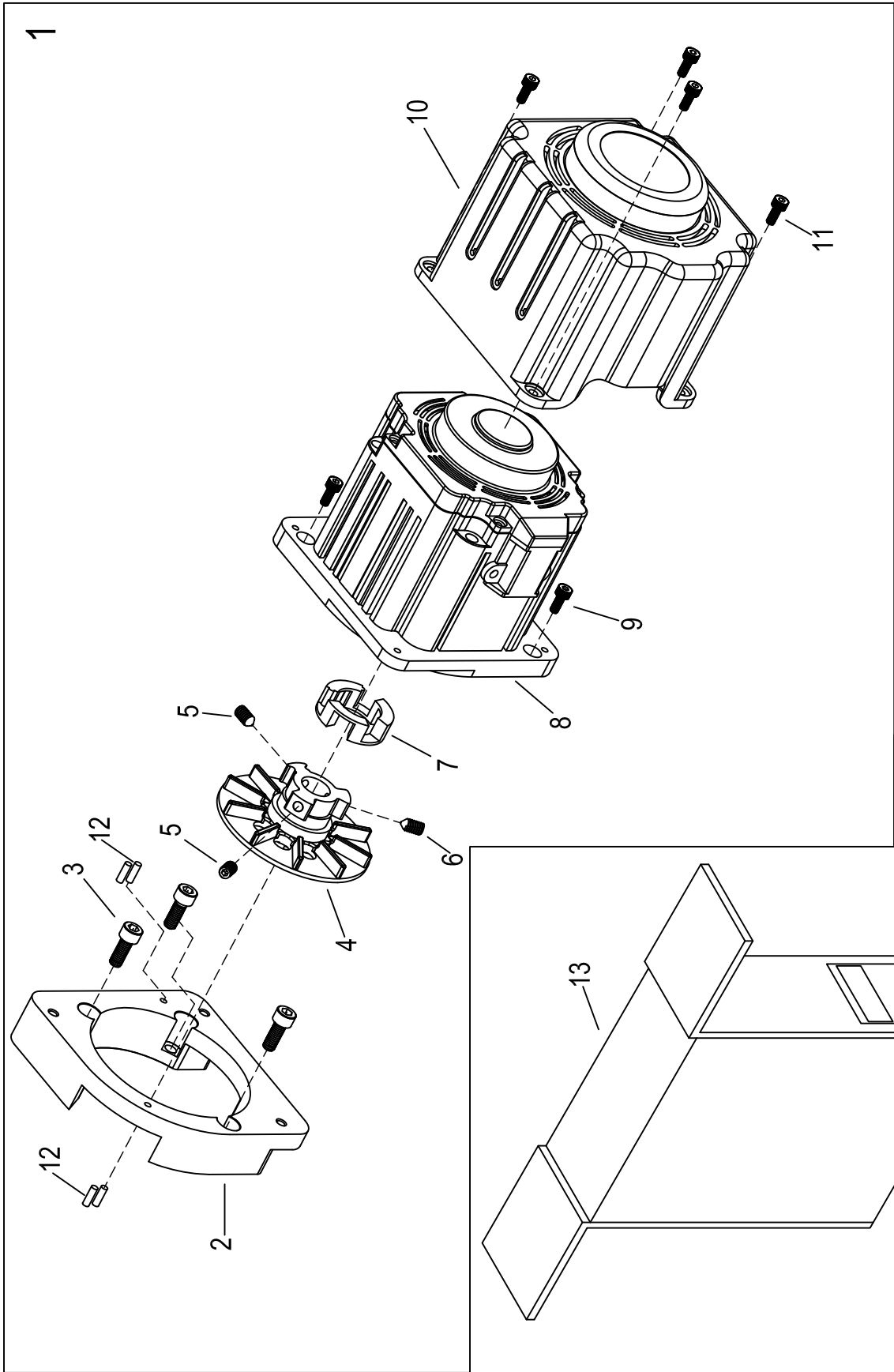
※ Ref. No. 41 to 46 . . . . . See the following page.

15



<u>COMPACT-SIZE SERVO MOTOR &amp; ATTACHMENT (OPTIONAL)</u> 電子小馬達傳動機構&專屬配件(選購)					15
<u>Ref. No.</u>	<u>Parts No.</u>	<u>Description</u>	<u>產品名稱</u>	<u>Amt. Req.</u>	
41	F1419	Fabric Joining Plate	併縫加寬板	1	
42	WF04	Washer	墊片	2	
43	GW18	Lower Binding Plate	四針併縫喇叭下片	1	
44	GW17	Upper Binding Plate	四針併縫喇叭上片	1	
45	GW19	Screw ( M4 - 0.7 × 8 )	螺絲	2	
46	GW13	Fabric Joining Binder	四針併縫喇叭組	1	

※ Ref. No. 1 to 40 . . . . . See the preceding page.





**COMPACT - SIZED SERVO MOTOR (OPTIONAL)****電子小馬達傳動機構(選購)**

16

Ref. No.	Parts No.	Description	產品名稱	Amt. Req.
1	VG1701	Direct-drive Servo Motor Assy	直驅馬達整組	1
2	VG1702-1	Machine Rest Board	連接座	1
3	SF244	Screw ( M6 - 1.0 × 16 )	螺絲	3
4	VG1704	Head Fan Motor B Ass'y	風扇	1
5	SF241	Screw ( M6 - 1.0 × 10 )	螺絲	2
6	MIR110	Screw ( M6 - 1.0 × 10 )尖	螺絲	1
7	VG1707	Rubber Cushion	防震橡膠	1
8	VG1708-1	AC Direct-drive Servo Motor	AC值驅馬達	1
9	SF230	Screw ( M5 - 0.8 × 12 )	螺絲	3
10	VG1710	Safety Cover	馬達護蓋	1
11	SV221	Screw ( M4 - 0.7 × 8 )	螺絲	4
12	J0722	Pin	固定銷	4
13	VG1725	Control Box	控制箱	1





**SL-703-GX-452/460/DS/PLA/VD**

4-needle 6-thread feed-off-the-arm Interlock Flatseaming Machine with dual differential feed ratio regulator  
手臂型四針六線併縫機(附雙差動送布齒裝置)



**SL-2700-AST/EST**

Feed-up-the-arm Interlock Machine with Compact Servo Motor and Thread Trimmer  
縱筒型三針五線雙面飾綉縫機



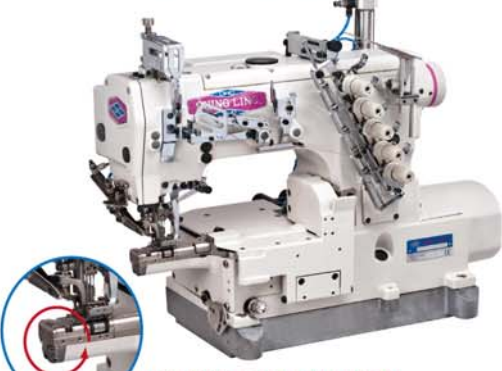
**SL-2800-356/SM**

Feed-up-the-arm Interlock Machine with Compact Servo Motor and Thread Trimmer  
縱筒型三針五線雙面飾綉縫機



**VG-999ES-AST-TF-DS**

Extremely-Small Cylinder-bed Interlock Machine with Thread Trimmer and Top Feeder  
超細筒型三針五線雙面飾綉縫機



**VG-888S-TF-AST**

Small Cylinder-bed Interlock Machine with Thread Trimmer and Top Feeder  
細筒型三針五線雙面飾綉縫機(附上送裝置)



**VG-888A-TF/AST**

Top Feeder for 3-needle 5-thread Cylinder-bed Interlock Machine  
橫筒型三針五線雙面飾綉縫機(附上送裝置)



**VG-999S-N700-AST-TF-DS**

Small Cylinder-bed Interlock Machine with Left hand Knife and Top Feeder for Hemming  
細筒型三針五線雙面飾綉縫機(附左修刀)



**VG-888A-N600-TF/AST**

Interlock Machine with Left-hand Knife and Thread Trimmer for Hemming  
橫筒型附左修刀雙面飾綉縫機



**SL-1790S**

Computer-controlled High-speed Lockstitch Buttonholing Machine  
高速電子平頭鎖眼機



**VG-999-SB-AST/EST-DS**

High-speed Short Cylinder-bed Interlock Machine with Thread Trimmer  
短筒型三針五線雙面飾綉縫機



**VG-999-R500-AST-RP**

Interlock Machine with Right-hand Knife and Rear Puller for Elastic Waistband Attaching  
高速橫筒型三針五線附右修刀雙面飾綉縫機



**VG-999-356/EST/DS/ZBR**

Dual Colors Decorative Stitches Interlock Machine with Top and Under Thread Trimmer  
高速橫筒型三針五線雙色上飾綉縫機

