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BM-01001-03-R00



1. 檢查與保養

在本產品運轉前執行定期性檢查或保養動作可確保電動滑台的安全性與壽命。
本產品的定期性檢查包含了：
每天運轉前後檢查、
每三個月定期檢查保養、
每六個月定期檢查保養、
每年定期檢查保養。
在使用頻率高的情況下，請縮短定期檢查保養週期。
檢查：● 保養：◎

1. Inspection and maintenance

Performing periodic inspections or maintenance actions before the operating can ensure the safety and life of the actuator.

Periodic inspections or maintenance include:

Before and after operating inspection and maintenance everyday、

Regular Inspection and maintenance every 3 months、

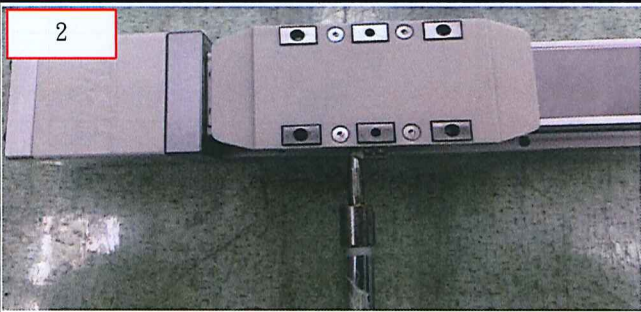
Regular Inspection and maintenance every 6 months、

Annual Inspection and maintenance、

Please shorten the inspection and maintenance cycle for frequent use

Inspection : ● Maintenance : ◎

零件名稱	螺桿、螺帽	防塵鋼帶	Part name	ballscrew、ball nut	steel strip
每天運轉前後	●	●	Before and after operating	●	●
每三個月	●◎	●	Every 3 months	●◎	●
每六個月	●◎	●	Every 6 months	●◎	●
每年	●◎	●	Every year	●◎	●
檢查保養重點	●檢查是否有不正常的振動或噪音。 ◎建議使用潤滑油種類：AFEP2 或 NSK LG-2 無塵室專用螺桿滑軌潤滑油。	●檢查鋼帶是否有損壞。 ●確認鋼帶是否有鬆脫。	Main point of inspection and maintenance.	●Inspection for unusual vibration or noise. ◎Recommended lubricant: AFEP2 or NSK LG-2 clean room type lubricant.	●Inspection damage of the steel strip. ●Inspection loose of the steel strip.
異常處理	不良則需更換。	●已影響到功能的不良則需更換。 ●若鬆脫則須從新調整鎖緊。	Erro handling.	Change the new one.	●Change the new one for damage. ●Readjustment and tighten up for the loose one.

1 	2. GTH系列注油保養 滑座側邊使用油槍頭置入注油頭。 (同位置對側都可進行注油保養) 圖1	2. GTH grease maintenance Applying grease by inserting the nipple into grease hole (red part) on the side of actuator. (Same position but the other side is also available to apply grease.) pic1																
2 	馬達座開始持續打油約(4~5)下。 圖2	Applying grease 4-5 times continuously from motor side. pic2																
3 	保養注油點依滑座移動15mm注油。 例： <table><tr><td>行程</td><td>100mm</td><td>200mm</td><td>300mm</td></tr><tr><td>15mm</td><td>7(點)</td><td>14(點)</td><td>21(點)</td></tr></table> 注油點數量可多不得少於 圖3	行程	100mm	200mm	300mm	15mm	7(點)	14(點)	21(點)	Apply grease by moving the slider every 15mm. Example: <table><tr><td>Stroke</td><td>100mm</td><td>200mm</td><td>300mm</td></tr><tr><td>15mm</td><td>7(Point)</td><td>14(Point)</td><td>21(Point)</td></tr></table> Amount of grease applying point can be more than suggested amount; cannot less than suggested amount. pic3	Stroke	100mm	200mm	300mm	15mm	7(Point)	14(Point)	21(Point)
行程	100mm	200mm	300mm															
15mm	7(點)	14(點)	21(點)															
Stroke	100mm	200mm	300mm															
15mm	7(Point)	14(Point)	21(Point)															



保養注油點約到抱持座位置。
(滑台保養注油作業完成)

圖 4

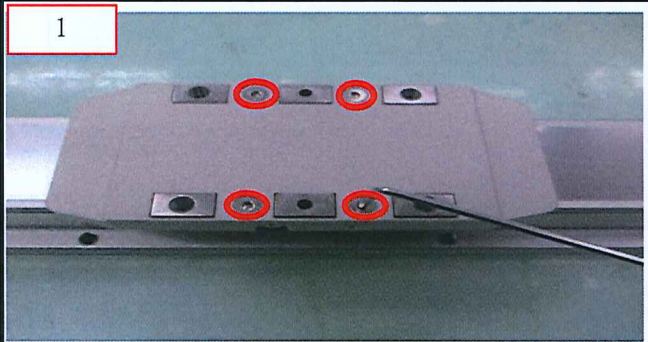
The grease maintenance is finished at the opposite side of motor.

pic4

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1	3. GTH鋼帶拆卸	3. GTH Steel strip removal
 圖1	鬆開滑座外蓋4pcs，皿頭3*6螺絲。 ※鋼帶銳利，拆卸時應穿戴安全防護手套。	Loosen 4 3*6 screws on the slider cover. ※Wear gloves when executing the removal work to avoid the cut by sharp steel strip. pic1
 圖2	滑座外蓋取下。 ※鋼帶銳利，拆卸時應穿戴安全防護手套。	Remove the slider cover. ※Wear gloves when executing the removal work to avoid the cut by sharp steel strip. pic2
 圖3	鬆開前後鋼帶壓板4pcs特殊螺絲。 ※鋼帶銳利，拆卸時應穿戴安全防護手套。	Loosen 4 special screw for the steel strip fixing plate at the front and back side of actuator. ※Wear gloves when executing the removal work to avoid the cut by sharp steel strip. pic3

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4

將前後鋼帶固定板及鋼帶與滑台分離，
鋼帶拆卸動作完成。

※鋼帶銳利，拆卸時應穿戴安全防護手套。

圖4

Separate the steel strip fixing plate and steel
strip with actuator.

The removal of steel strip is finished.

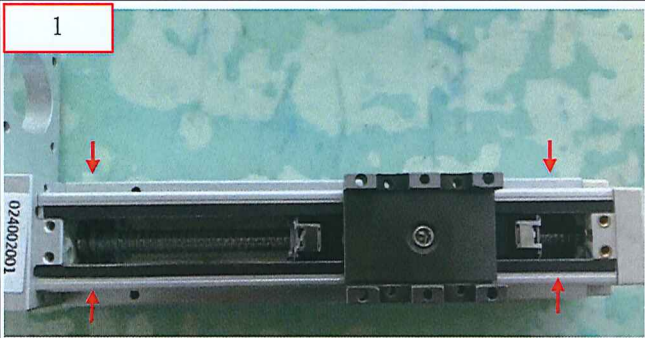
※Wear gloves when executing the removal work
to avoid the cut by sharp steel strip.

pic4

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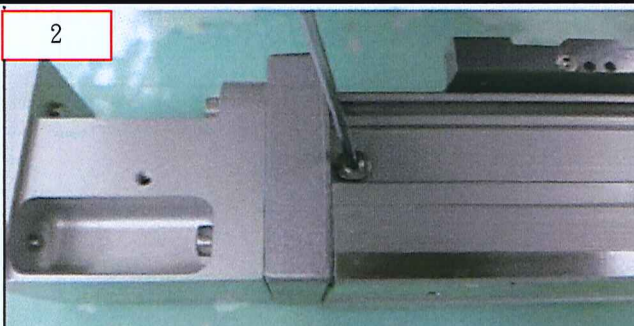


1	4. GTH側蓋拆卸	4. GTH Side Cover Removal
 圖1	↓ 側蓋固定4pcs特殊螺絲。 pic1	↓ 4 special screw on side cover. pic1
 圖2	使用2.0mm六角板手鬆開特殊螺絲。 pic2	Using 2.0mm allen key to loosen special screws. pic2
 圖3	4pcs特殊螺絲拆卸完成，側蓋取下完成。 pic3	Remove 4 special screw then removal of side cover is finished. pic3

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1	5. GTH側蓋安裝	5. GTH Side cover installation
 圖1	取側蓋置於本體側邊。 圖1	Take the side cover and put at the side of actuator. pic1
2   圖2 圖3	使用2.0mm六角板手鎖附特殊螺絲， 鎖附側蓋前後端。 圖2 圖3	Using 2.0mm allen key to lock special screws for the front and back side of side cover. pic2 pic3



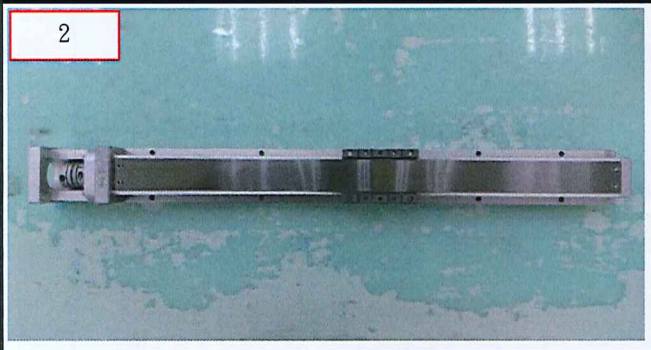
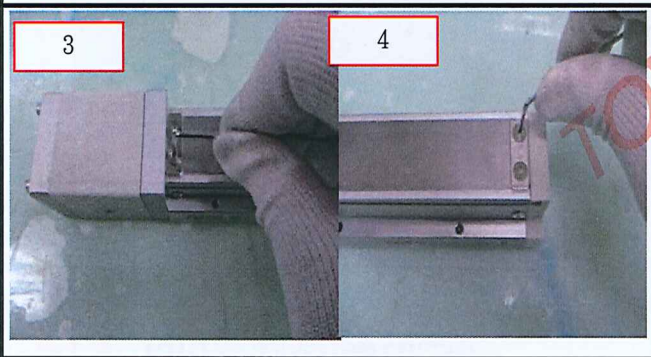
4 	依圖1 圖2 圖3 步驟，安裝另端側蓋。 圖4	Follow pic 1,2,3 to install the other side. pic4
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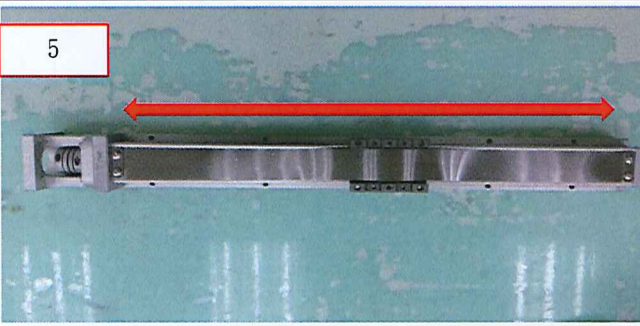
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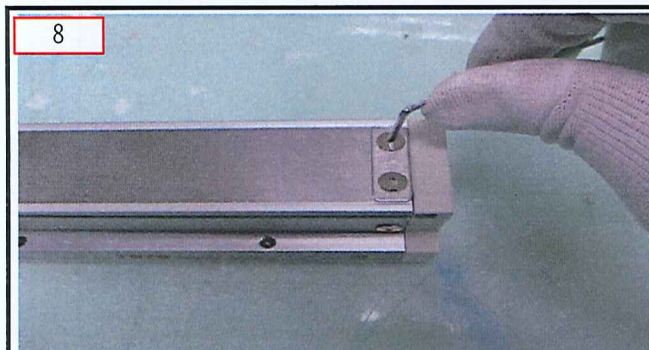


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1	6. GTH鋼帶安裝	6. GTH Steel Strip installation
	取新鋼帶清潔。 清潔工具：無塵布(紙)沾酒精擦拭。 ※鋼帶銳利，拆卸時應穿戴安全防護手套。 圖1	Take the new steel strip for cleaning. Cleaning tool: Cleanroom wiper with ethyl alcohol. ※Wear gloves when executing the removal work to avoid the cut by sharp steel strip. pic1
	將清潔完成鋼帶放置滑台。 ※鋼帶銳利，拆卸時應穿戴安全防護手套。 圖2	Put the cleaned steel strip on the actuator. ※Wear gloves when executing the removal work to avoid the cut by sharp steel strip. pic2
	前後鋼帶壓板鎖附上4pcs特殊螺絲。 ※鋼帶銳利，拆卸時應穿戴安全防護手套。 圖3 圖4	Lock 4 special screw at the front and back side of the steel strip fixing plate. ※Wear gloves when executing the removal work to avoid the cut by sharp steel strip. pic3 pic4

5 	手推滑座移動。 圖5	Move the slider by hand pushing. pic5
6  7 	檢視鋼帶是否因手推後翹起。 圖6 圖7	Inspect if there is a bump on steel strip by hand pushing. pic6 pic7

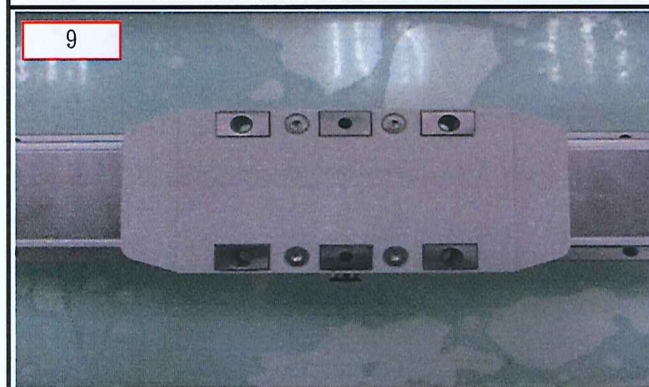


發現鋼帶翹起放鬆設定螺絲，
重新執行圖5~圖7。

圖8

If there is a bump on the steel strip ,
then loosen the set screw and redo pic5-7.

pic8



鎖上滑座外蓋4pcs，皿頭3*6螺絲，
鋼帶更換完成。

※鋼帶銳利，拆卸時應穿戴安全防護手套。

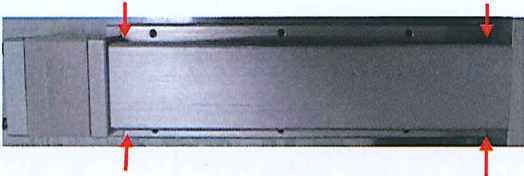
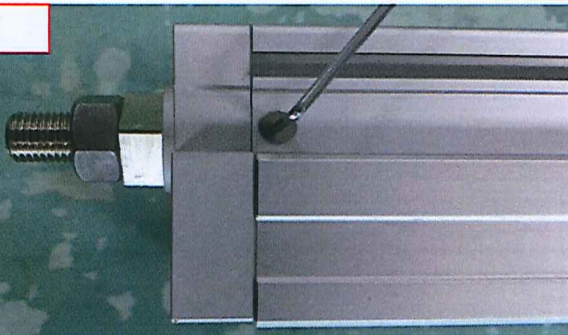
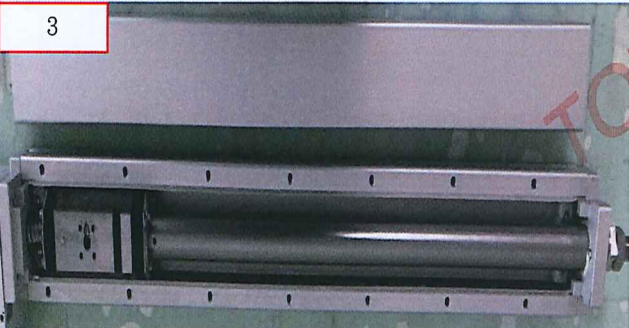
圖9

Lock 4 3*6 screws at the slider cover , and the
work of changing steel strip is finished.

※Wear gloves when executing the removal work
to avoid the cut by sharp steel strip.

pic9

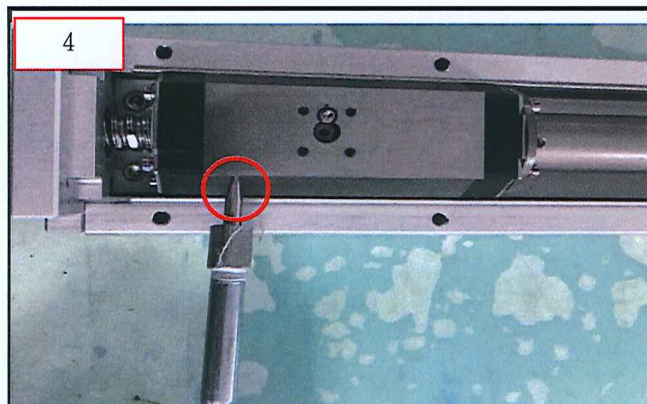


1	7. GTY系列注油保養	7. GTY grease maintenance
 圖1	↓ 上蓋固定4pcs特殊螺絲。 圖1	↓ 4 special screws for fixing upper cover。 pic1
 圖2	使用2.0mm六角板手鬆開特殊螺絲。 圖2	Using 2.0mm allen key to loosen special screw. pic2
 圖3	4pcs特殊螺絲拆卸後，上蓋取下。 圖3	Remove 4 special screws then removal of upper cover is finished. pic3

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馬達座開始持續打油約(4-5)下。
保養注油點依滑座移動15mm注油。

例:

行程	100mm	200mm	300mm
15mm	7(點)	14(點)	21(點)

注油點數量可多不得少於

圖4

Applying grease 4-5 times continuously from motor side.

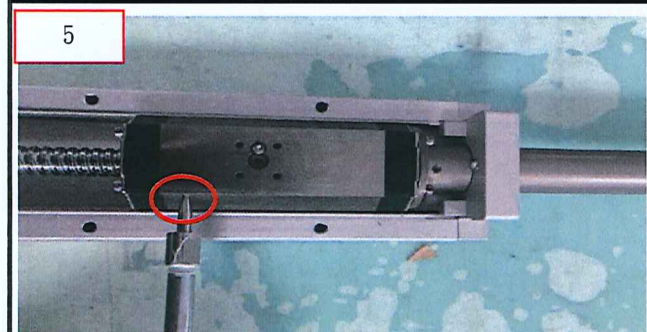
Apply grease by moving the slider every 15mm.

Exemple:

Stroke	100mm	200mm	300mm
15mm	7(Point)	14(Point)	21(Point)

Amount of grease applying point can be more than suggested amount; cannot less than suggested amount.

pic4



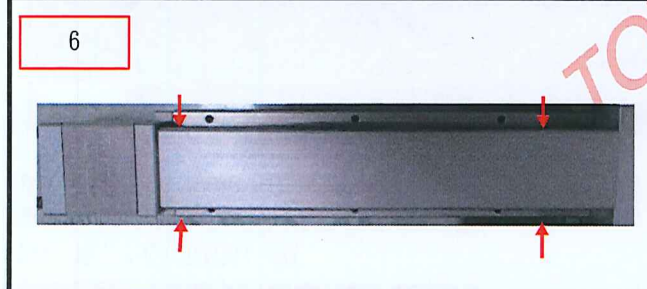
保養注油點約到抱持座位置。
(滑台保養注油作業完成)

圖5

The grease maintenance is finished at the opposite side of motor.

(Grease maintenance is finished)

pic5



蓋上上蓋

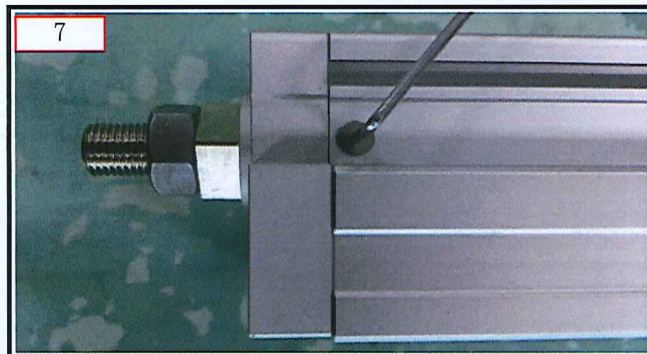
↓ 固定4pcs特殊螺絲鎖上。

圖6

Put upper cover back.

↓ 4 fixing special screws to tight.

pic6



使用2.0mm六角板手鎖緊特殊螺絲。

GTY注油保養完成。

圖 7

Using 2.0mm allen key to tighten up special screw.

GTY maintenance is finished.

pic7

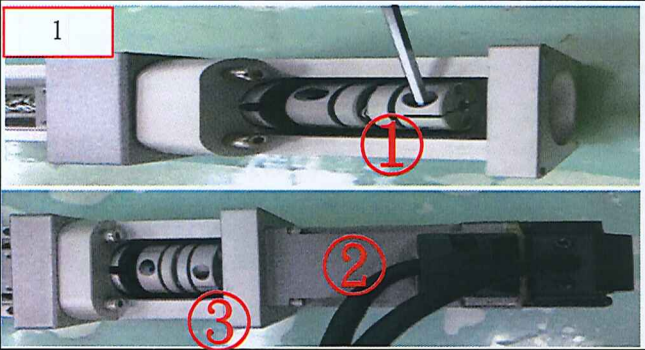
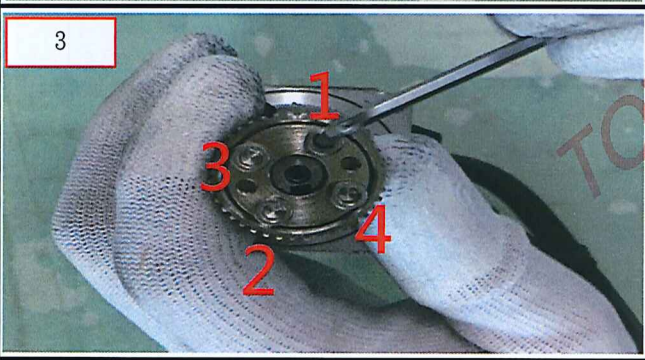
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1 	8-1.G系列馬達安裝『BC與M樣式』 滑台平放，置於工作平台上作業安裝， 放鬆①聯軸器螺絲後置入馬達， ②鎖緊馬達固定螺絲， 再鎖緊③聯軸器螺絲。 圖1	8-1.G series motor installation『BC,M』 Keep the actuator flat for installation , (1) Loosen the screw of coupling then assemble motor into actuator , (2) Tighten the screw on the motor , (3) Tighten the screw on the coupling. pic1
2 	8-2.G系列馬達安裝『轉折安裝』 將皮帶輪裝入軸心， 皮帶輪與馬達面距離約1~2mm， 不可將皮帶輪貼合馬達，會產生干涉。 圖2	8-2.G series motor installation『BL,BR,BM』 Install the pulley into shaft , The gap between pulley and motor needs to remain 1-2mm , if there is no gap ,will have interference problem. pic2
3 	皮帶輪4pcs螺絲，依順序鎖緊。 圖3	Follow the order to tighten up 4 screws of pulley. pic3

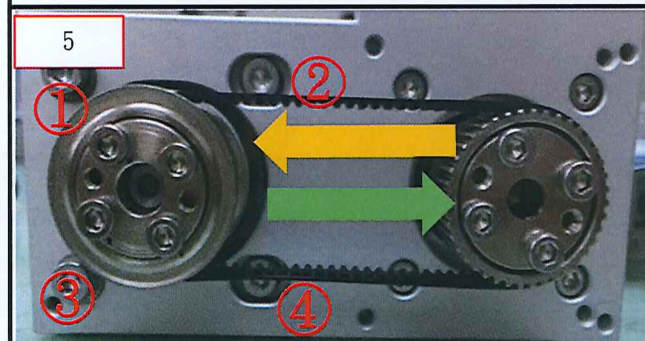


鎖附馬達固定螺絲。

Tighten the screw of motor.

圖 4

pic4



放鬆①②③④螺絲，
往左推置入環帶。←
往右拉緊皮帶將上述螺絲鎖緊。→
張力值彈測請參閱，
「8-7 G系列馬達張力值」之說明。

Loosen①②③④screws
Push to the left to set the ring belt ←
Pull the belt to the right then tighten above
screws. →

About tension value, please refer 8-7 chapter-
G series motor tension value explanation.

圖 5

pic5

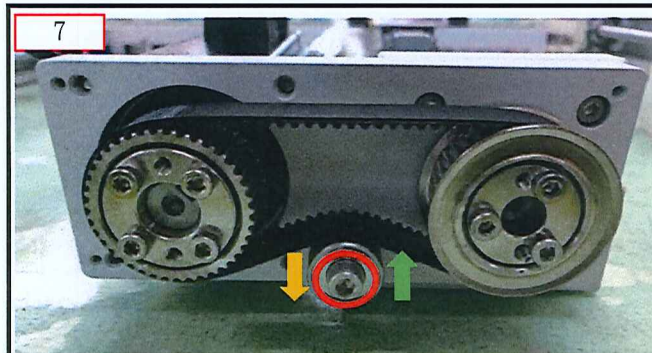


放鬆馬達板下方M3設定螺絲。

Loosen M3 setting screw below the motor plate.

圖 6

pic6



1. 環帶滾輪使用4.0mm六角板手放鬆。
2. 上下移動滾輪調整環帶緊度。
3. 張力值調整完成滾輪M5螺絲鎖緊。
4. 鎖緊圖6設定螺絲。

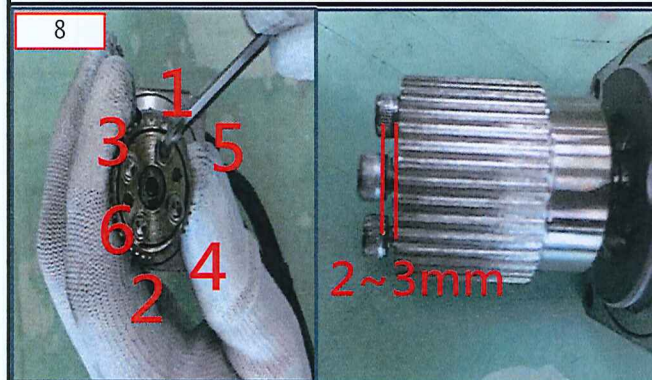
張力值彈測請參閱，
「8-7 G系列馬達張力值」之說明。

圖7

1. Using 4mm allen key to loosen special screws.
2. Adjust tightness of ring belt by moving roller up and down.
3. Tighten M5 screw on roller after adjustment of tension value.
4. Tighten setting M5 screw showed on pic6.

About tension value, please refer 8-7 chapter-G series motor tension value explanation.

pic7



8-5. G系列皮帶輪拆卸方式

- 步驟1. 2. 3. 4皮帶輪螺絲，
依順序鬆開，
螺絲鬆開2~3mm，
步驟5. 6使用螺絲鎖附進去，
皮帶輪與馬達即可分離。
步驟5. 6完成螺絲使用完須取出。

圖8

步驟5. 6使用螺絲	
GTH5	M3*10
GTH8	M4*12

8-5. G series pulley removal method

Loosen screws on the pulley by order 1234, Loosen screws for 2-3mm, Executing 5.6 to attach the screws in, then pulley and motor should be separated.

pic8

screws for step5. 6	
GTH5	M3*10
GTH8	M4*12



8-6. 皮帶張力彈測手法

使用張力機彈測調整環帶張力值。

圖9

8-6. Tension value measurement

Use a belt tension gauge to adjust the tension value of ring belt.

pic9



8-7. G系列馬達張力值						8-7. G系列馬達張力值					
型號	馬達方向	皮帶規格	皮帶寬度	測量跨距	張力值(N)	Model	Motor Direction	Belt Spec	Belt Width	Measuring Span(mm)	Tension Value(N)
GTH(Y)4	BL/BR/BM	2GT	9	50	12~17	GTH(Y)4	BL/BR/BM	2GT	9	50	12~17
GTH(Y)5	BL/BR/BM	2GT	12	58	17~17	GTH(Y)5	BL/BR/BM	2GT	12	58	12~17
GTH(Y)8	BL/BR/BM	3GT	15	80	32~42	GTH(Y)8	BL/BR/BM	3GT	15	80	32~42
GTH(Y)12	BL/BR	3GT	15	100	32~42	GTH(Y)12	BL/BR	3GT	15	100	32~42
GTH(Y)12	BM	3GT	15	80	32~42	GTH(Y)12	BM	3GT	15	80	32~42

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