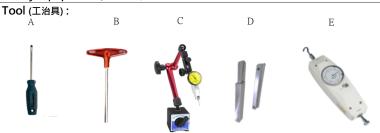


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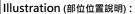
Adjustment of Backlash for GXA-S series GXA-S背隙調整

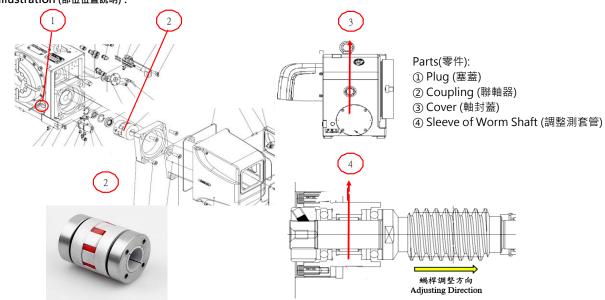
For Model: Ans: For GXA-S GXA-H GVA GFA-S GFA-H GTF GTFAE Series

Safety Equipment (安全設備): None

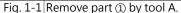


- A Flat Screwdriver (平口螺絲起子)
- B T-Wrench (T型扳手)
- C Dial indicator (千分錶)
- D Jig T-slot wrench (T溝板手-治具)
- E Tensiometer (推拉力計)





Step 1





使用平口螺絲起子移除塞蓋。



Remark:

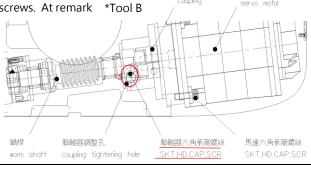
Step 2

Fig. 2-1 Rotate motor until tool B(4mm) can reach M5



screws on part ②. Loose the screws. At remark ② SKT.HD.CAP.SCR.

轉動馬達至可將T型板手4mm 套入聯軸器上的M5螺絲②後, 將螺絲放鬆。



coupling

伺服馬達



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Adjustment of Backlash for GXA-S series GXA-S背隙調整

For Model: Ans: For GXA-S GXA-H GVA GFA-S GFA-H GTF GTFAE Series

Step 3



Fig. 3-1 Remove Flat.HD.SKT.SKR *4pcs by tool B(2.5mm). Remove part (3).

使用T型板手2.5mm拆開皿型螺絲 4只,將軸封蓋 取下。 Remark: *Tool B



Step 4



Fig. 4-1 Loose SKT.HD.CAP.SCR *2pcs by tool B(3mm).

使用T型板手3mm放鬆內六角螺絲M4螺絲 2只。

Remark: *Tool B



Step 5



Fig. 5-1 Lock M6x50L screws *2pcs on part ④. Rotate part ④ by the 2 screws. Rotate clockwise to reduce backlash; Rotate counter-clockwise to increase backlash.

* It is recommended to rotate up to **quarter(1/4)** turn at one time.

在套管座鎖上M6x50L螺絲 2只·應用2只螺絲轉動 套管座·順時針方向為縮小蝸桿蝸輪背隙·逆時針 方向為放大蝸桿蝸輪背隙。

*建議一次最多轉動1/4圈。

Remark:

Step 6



Fig. 6-1 If the backlash too large, rotate M6x50L *2pcs on part ④ **clockwise** to reduce backlash.

若<mark>背隙過大時,在套管座上的M6x50L螺絲 2只以順時針旋轉調整側套管來減少蝸桿蝸輪背隙。</mark>

Remark: CLOCKWISE



Step 7

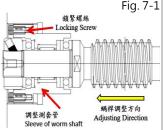


Fig. 7-1 If the backlash too small, rotate M6x50L *2pcs on part @ anti-clockwise to increase backlash.

若<mark>背隙過小</mark>時,在套管座上的M6x50L螺絲 2只以 逆時針旋轉調整側套管來增加蝸桿蝸輪背隙。 Remark:





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Adjustment of Backlash for GXA-S series GXA-S背隙調整

For Model: Ans: For GXA-S GXA-H GVA GFA-S GFA-H GTF GTFAE Series

Step 8

Fig. 8-1 Tighten SKT.HD.CAP.SCR *2pcs.



鎖緊內六角螺絲M3螺絲 2只。

Remark:

*Tool B



Step 9



Fig. 9-1 1.將千分錶吸附在本體上,錶針量測在盤面一處T型溝側邊

2.使用治具T溝板手插入盤面其他T型溝,使用推拉力計距離盤面外緣約 100mm左右,順時針施力約10~15Kg後放裝觀察干分錶數值。 3.使用治具T溝板手插入盤面其他T型溝,使用推拉力計距離盤面中心半徑 約100mm左右,逆時針施力約10~15Kg後放鬆觀察干分錶數值。 4.間除須在0.005~0.01mm,如果太大或太小则需重複操作調整至範圍內

1. The dial indicator is adsorbed on the body, and the dial needle is measured on the side of T-slot ditch on the table plate surface.
2. Insert the T-slot wrench of the jig into others T-slot of the table plate, use the tensiometer to distance about 100mm from the outer edge of the table plate, apply about 10~15Kg clockwise force, then loonse and observe the value of the dial indicator.
3. Insert the T-slot wrench of the jig into others T-slot of the disk

3. Insert the 1-slot wrench of the jig into others 1-slot of the disk surface, use the tensiometer to distance about 100mm from the center radius of the disk surface, apply about 10~15Kg counterclockwise force, then loonse and observe the value of the dial indicator.

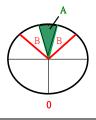
4. The clearance must be 0.005~0.01mm. If it is too large or too small, repeat the operation to adjust it to the range.

Remark:

- * Standard value/標準值: 0.005~0.01mm
- * The indication on dial gauge/千分錶示意: (1) A: Backlash/ 背隙值
- (2) B: Flexible Deformation / 彈性變形量







Step 10

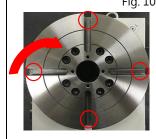


Fig. 10-1 Adjust backlash on the circumference of rotary table at 90 degrees intervals as Fig. 10-1.
Repeat step 5-step 10 until the alignment is in the regulation. (0.005mm-0.01mm)

蝸輪分為4點, 量測間距為 90度(分度盤旋轉的角度)。每轉90°量測一次,檢查數據平均值 重複步驟5~8將背隙調整到0.005mm~0.01mm。

Remark: *Tool C

*Tool C *Tool D



Step 11



Fig. 11-1 After adjusting backlash. Rotate motor until tool B(4mm) can reach M5 screws on part ②.

tighten the screws. (At remark ② SKT.HD.CAP.SCR.)
Reassemble part ③ and part

Reassemble part ③ and part ① in the reverse order. The adjustment of backlash for GXA-S series is complete.

背隙調整完畢後·轉動馬達至可 將T型扳手4mm套入聯軸器上的 M5螺絲②後·將螺絲鎖緊。 依序將塞蓋以及蝸桿封蓋裝回・ 即完成蝸桿蝸輪的背隙調整。

