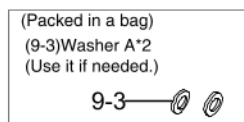
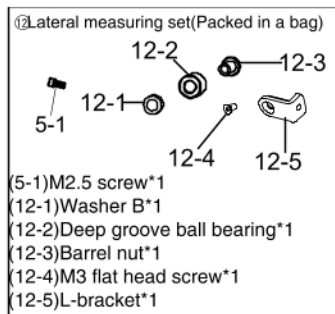
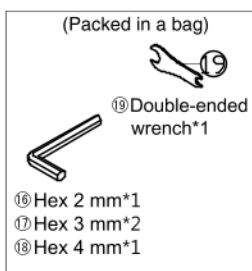
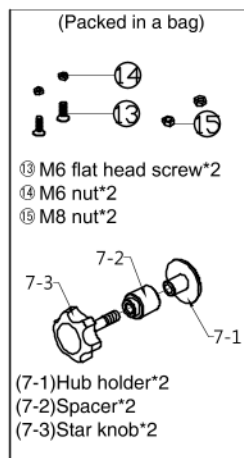
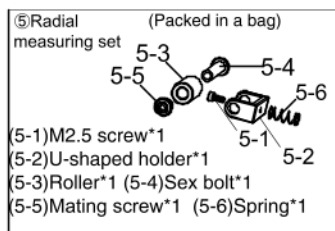
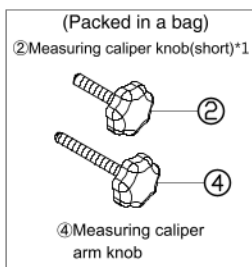
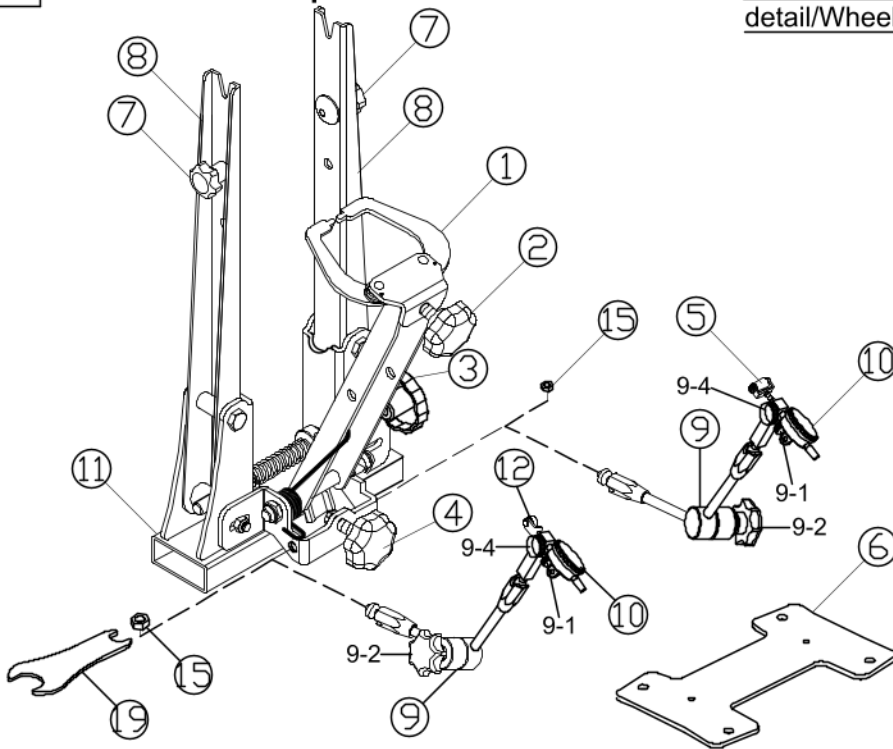


1 Parts description

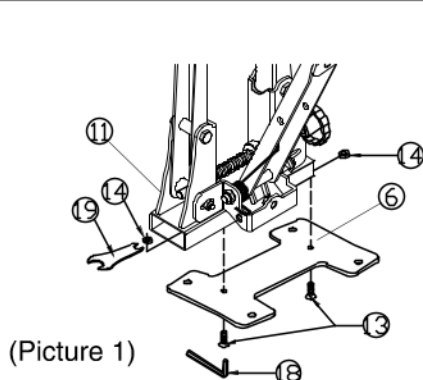
Learn more from Super B website:
https://www.superbiketool.com/en/product/detail/Wheel_Spoke/TB_PF36



NO	PARTS	Q'TY
①	Measuring caliper	1
②	Measuring caliper knob(short)	1
③	Measuring upright knob	1
④	Measuring caliper arm knob(long)	1
⑤	Radial measuring set	1
5-1	M2.5 screw	1
5-2	U-shaped holder	1
5-3	Roller	1
5-4	Sex bolt	1
5-5	Mating screw	1
5-6	Spring	1
⑥	Base	1
⑦	Hub holder set	2
7-1	Hub holder	2
7-2	Spacer	2
7-3	Star knob	2
⑧	Upright	2
⑨	All-purpose arm	2
9-1	Fine-tuning knob	2
9-2	Knob	2
9-3	Washer A	2
9-4	Dial indicator knob	2
⑩	Dial indicator	2
⑪	Body	1
⑫	Lateral measuring set	1
5-1	M2.5 screw	1
12-1	Washer B	1
12-2	Deep groove ball bearing	1
12-3	Barrel nut	1
12-4	M3 flat head screw	1
12-5	L-bracket	1
⑬	M6 flat head screw	2
⑭	M6 nut	2
⑮	M8 nut	2
⑯	Hex wrench 2 mm	1
⑰	Hex wrench 3 mm	2
⑱	Hex wrench 4 mm	1
⑲	Double-ended wrench	1

2 Assembly

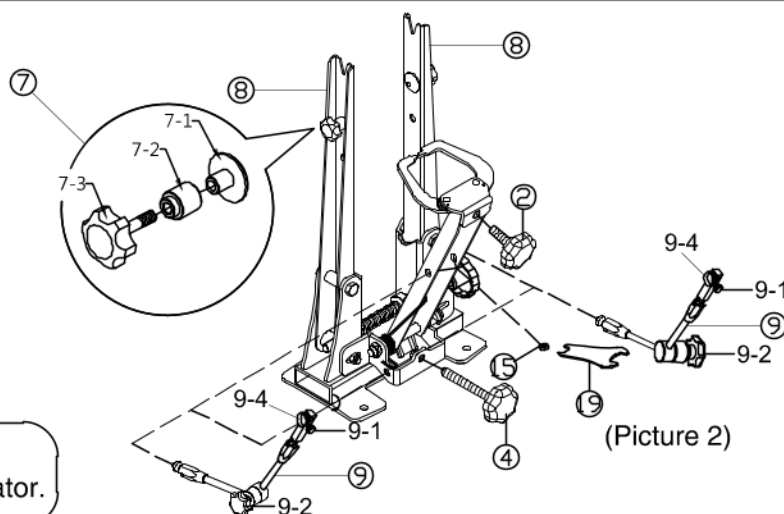
- Assemble the base ⑥ and body ⑪ with double-ended wrench ⑲ , hex wrench 4 mm ⑱ , M6 flat head screw ⑬ and M6 nut ⑭ .(see picture 1)
- Install measuring caliper knob(short)②, measuring caliper arm knob(long)④ and hub holder sets ⑦. (see picture 2)
- Firstly, loosen the knob(9-2)of all-purpose arms ⑨, and use double-ended wrench ⑲ to assemble all-purpose arms ⑨ and M8 nut ⑮ on the body ⑪ .(see picture 2)
(Note:The all-purpose arms ⑨ have two assembling sites. Please choose the proper site by your operation.)
- Loosen the dial indicator knob(9-4), set the two dial indicators ⑩ separately on all-purpose arms ⑨, and then tighten the dial indicator knob(9-4).(see picture 3)



(Picture 1)

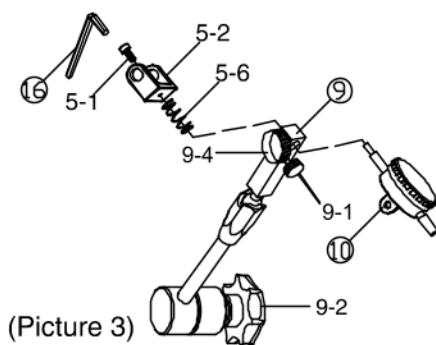


Be aware of the direction of base ⑥.
The longer side should face the operator.

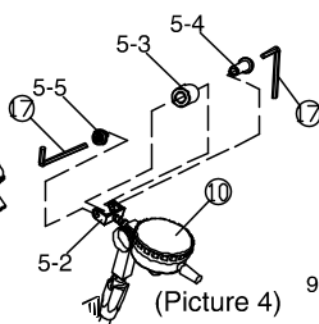


(Picture 2)

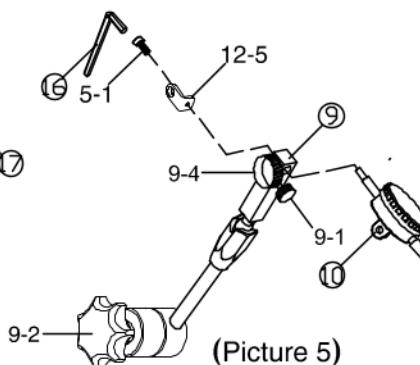
5. Assemble the radial measuring set ⑤ on dial indicator ⑩.
 - 5-1. Remove the contact point of the right dial indicator ⑩.
 - 5-2. Assemble M2.5 screw(5-1), U-shaped holder(5-2) and spring(5-6) on right dial indicator ⑩ by hex wrench 2 mm ⑮. (see picture 3)
 - 5-3. Assemble roller(5-3), sex bolt(5-4) and mating screw(5-5) on U-shaped holder(5-2) by 2 hex wrenches 3 mm ⑰. (see picture 4)
6. Assemble the lateral measuring set ⑫ on dial indicator ⑩.
 - 6-1. Remove the contact point of the left dial indicator ⑩.
 - 6-2. Assemble M2.5 screw(5-1), L-bracket(12-5) on the left dial indicator ⑩ by hex wrench 2 mm ⑮. (see picture 5)
 - 6-3. Assemble M3 flat head screw(12-4), washer B(12-1), deep groove ball bearing(12-2), barrel nut(12-3) on L-bracket(12-5) by hex wrench 2 mm ⑮ and slotted screwdriver. (see picture 6)



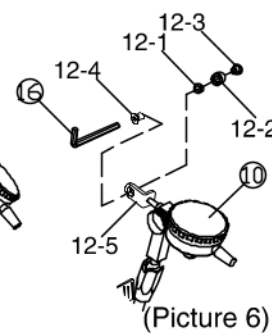
(Picture 3)



(Picture 4)



(Picture 5)



(Picture 6)

3 Instruction



Be sure to loosen the knob(9-2) before adjusting the all-purpose arms ⑨ for fear of breaking the inside joint

Rim initial truing :

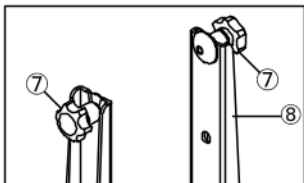
1. Set the hub on uprights ⑧ which are suitable for quick-release hub and threaded hub. (see picture 8)
2. If the hub is a thru-axle hub (12 to 20 mm), please set the hub holder sets ⑦ on the top of uprights ⑧. (see picture 7)
3. Set up the measuring caliper ① by adjusting measuring caliper knob(short)② and measuring caliper arm knob(long)④. (see picture 8 & 9)
 - 3-1. Proceed the radial truing of rim by loosening measuring caliper knob(short)② to make the measuring caliper ① to be close to the rim. (see picture 8 & 10)
 - 3-2. Proceed the lateral truing of rim by loosening measuring caliper arm knob(long)④ to make the measuring caliper ① to be close to the rim. (see picture 9 & 11)



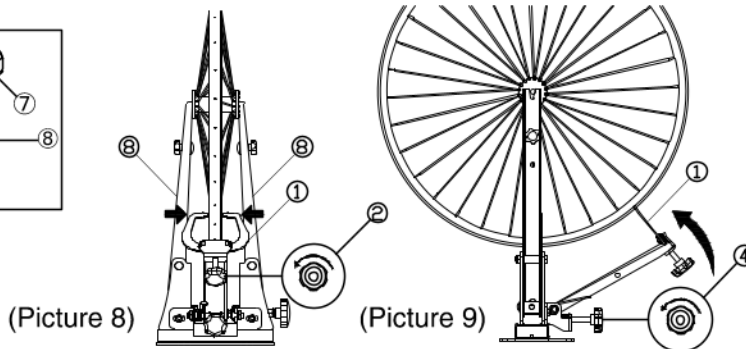
Please securely fix the hub on uprights ⑧ to ensure the truing accurately

4. Suggest truing with wheel alignment gauge (TB-1930)(optional).

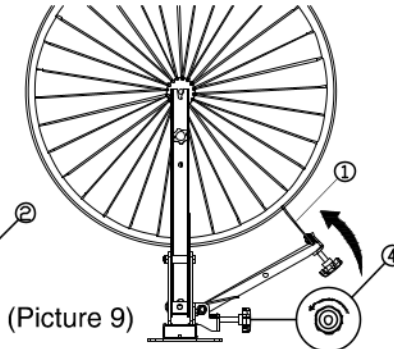
5. Repeat step 3~4 until the wheelset initial truing is completed.



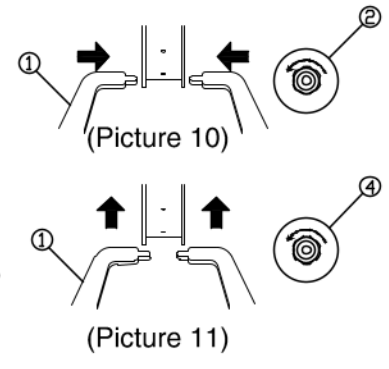
(Picture 7)



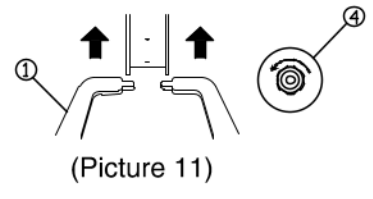
(Picture 8)



(Picture 9)



(Picture 10)



(Picture 11)

Rim truing :

6. Put the measuring caliper ① away when initial truing is done.
7. Loosen the knob(9-2) to make the dial indicator ⑩ to be close to the rim (without actual contact) and then tighten it(9-2).
8. Adjust the fine-tuning knob(9-1) to make the dial indicator ⑩ contacted the rim. (see picture 12)
9. Make sure the dial indicators ⑩ are vertical with the rim.
10. True the rim precisely according to the dial indicator ⑩.
11. Suggest truing with wheel alignment gauge (TB-1930)(optional).
12. When truing is done, adjust the fine-tuning knob(9-1) to keep the dial indicator ⑩ away from the rim.
13. Then, loosen the knob(9-2) to move the dial indicator ⑩ away from the rim and then tighten it (9-2).
14. Check and calibrate it with truing stand correction gauge(TB-PF33)(optional).



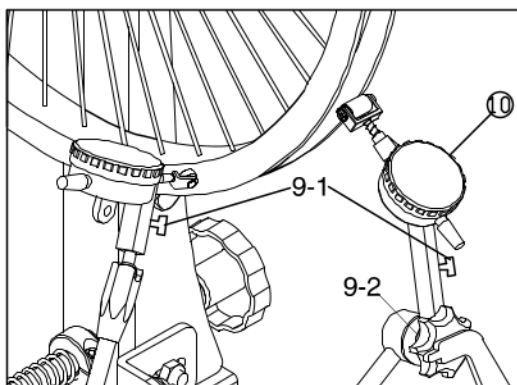
The measuring range of dial indicator ⑩ is from 0.01mm to 5 mm. Please avoid exceeding the maximum

Rotor truing :

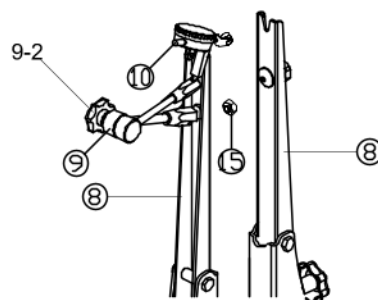
1. Loosen the knob(9-2) and remove the left all-purpose arm ⑨.
2. Install the all-purpose arm ⑨ on the left upright ⑧ with M8 nut ⑮. (see picture 13)
3. Loosen the knob(9-2) to make the dial indicator ⑩ to be close to the rotor (without actual contact) and then tighten it.
4. Adjust the fine-tuning knob(9-1) to make the dial indicator ⑩ contacted the rotor. (see picture 14)
5. Make sure the dial indicator ⑩ is vertical with the rotor. (Notice: Avoid the dial indicator from touching the heat dissipation hole)
6. True the rotor precisely according to dial indicator ⑩ by rotor truing fork(TB-MW40)(optional).
7. When truing is done, adjust the fine-tuning knob(9-1) to keep the dial indicator ⑩ away from the rotor.
8. Then, loosen the knob(9-2) to move the dial indicator ⑩ away from the rotor and then tighten it (9-2).



While assembling the left all-purpose arm ⑧, please keep the dial indicator ⑩ from physical impact or it could lose its accuracy.



(Picture 12)



(Picture 13)

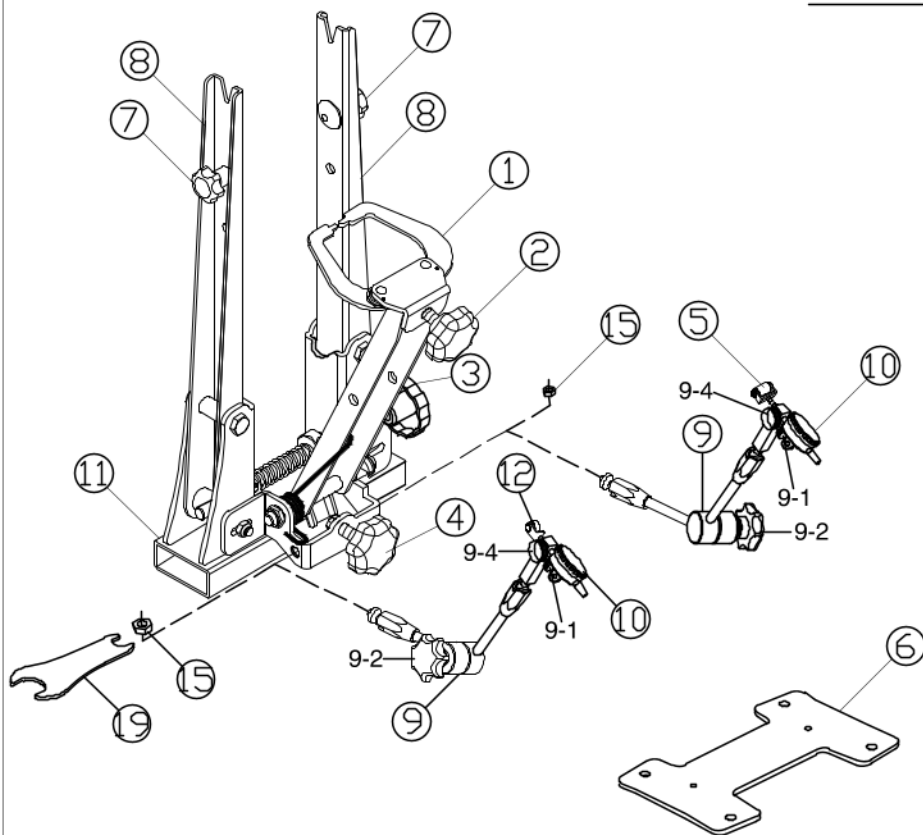


(Picture 14)

1 零件名稱及數量

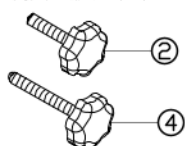
詳細操作影片請至Super B官網

https://www.superbiketool.com/en/product/detail/Wheel_Spoke/TB_PF36 觀看



(工具一個袋子包裝)

②量測夾口旋鈕(短)*1PC



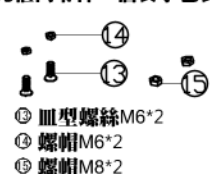
④量測臂旋鈕(長)*1

(工具一個袋子包裝)

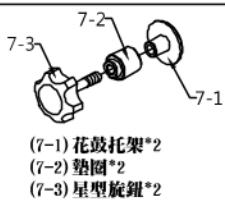


⑬六角扳手2 mm*1支
⑭六角扳手3 mm*2支
⑮六角扳手4 mm*1支

(此框內零件一個袋子包裝)



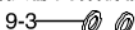
⑬皿型螺絲M6*2
⑭螺帽M6*2
⑮螺帽M8*2



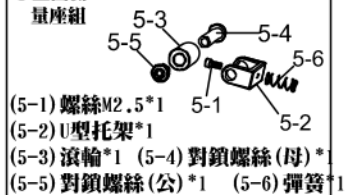
(7-1) 花鼓托架*2
(7-2) 墊圈*2
(7-3) 星型旋鈕*2

(此框內零件一個袋子包裝)

(9-3) 華司A*2
(依個人需求自行評估使用)

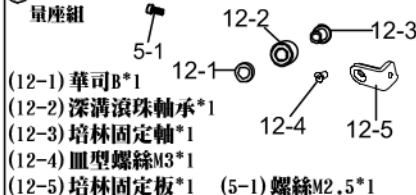


⑤正圓測 (此框內零件一個袋子包裝)
量座組



(5-1) 螺絲M2.5*1
(5-2) U型托架*1
(5-3) 滾輪*1 (5-4) 對鎖螺絲(母)*1
(5-5) 對鎖螺絲(公)*1 (5-6) 彈簧*1

⑫偏擺測 (此框內零件一個袋子包裝)
量座組

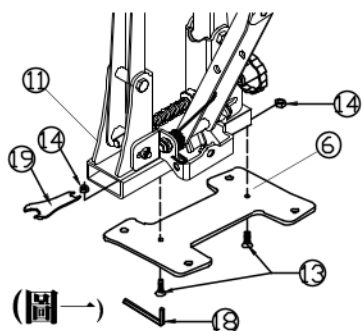


(12-1) 華司B*1 (12-2) 深溝滾珠軸承*1
(12-3) 培林固定軸*1 (12-4) 皿型螺絲M3*1
(12-5) 培林固定板*1 (5-1) 螺絲M2.5*1

編號	名稱	數量
①	量測夾口	1
②	量測夾口旋鈕(短)	1
③	量測臂旋鈕	1
④	量測臂旋鈕(長)	1
⑤	正圓測量座組	1
5-1	螺絲M2.5	1
5-2	U型托架	1
5-3	滾輪	1
5-4	對鎖螺絲(母)	1
5-5	對鎖螺絲(公)	1
5-6	彈簧	1
⑥	底座	1
⑦	花鼓托架組	2
7-1	花鼓托架	2
7-2	墊圈	2
7-3	星型旋鈕	2
⑧	輪組夾臂	2
⑨	萬向錶座	2
9-1	微調鈕	2
9-2	錶座旋鈕	2
9-3	華司A	2
9-4	百分錶旋鈕	2
⑩	百分錶	2
⑪	主體	1
⑫	偏擺測量座組	1
12-1	螺絲M2.5	1
12-2	華司B	1
12-3	深溝滾珠軸承	1
12-4	培林固定軸	1
12-5	培林固定板	1
⑬	皿型螺絲M6	2
⑭	螺帽M6	2
⑮	螺帽M8	2
⑯	六角扳手 2 mm	1
⑰	六角扳手 3 mm	2
⑱	六角扳手 4 mm	1
⑲	雙開口扳手	1

2 組裝步驟

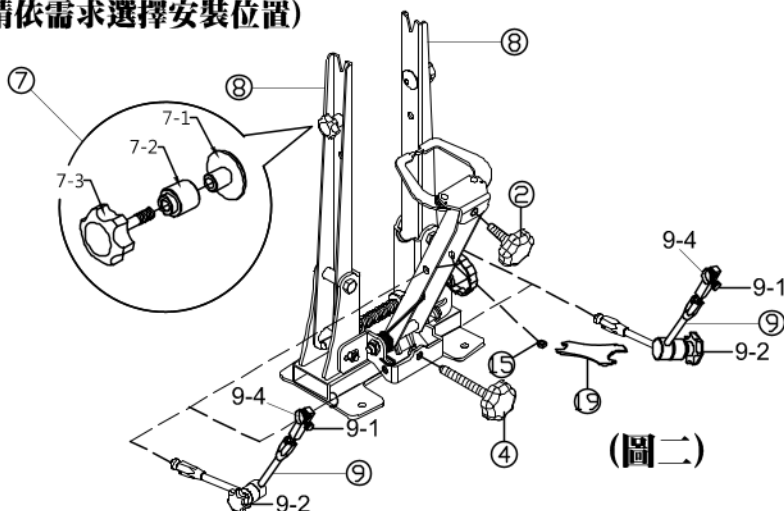
1. 使用雙開口扳手⑬、六角扳手 4 mm⑭、皿型螺絲M6⑬與螺帽M6⑭組裝校正台主體⑪與底座⑥。(如圖一所示)
2. 組裝量測夾口旋鈕(短)②、量測臂旋鈕(長)④與花鼓托架組⑦。(如圖二所示)
3. 請先將錶座旋鈕(9-2)放鬆，再使用雙開口扳手⑬將萬向錶座⑨和螺帽M8⑮組裝於校正台主體⑪上。(如圖二所示)
(注意:萬向錶座⑨有2個安裝位置，請依需求選擇安裝位置)



(圖一)



組裝時請注意底座⑥
方向，較長的一邊須
朝向使用者方向

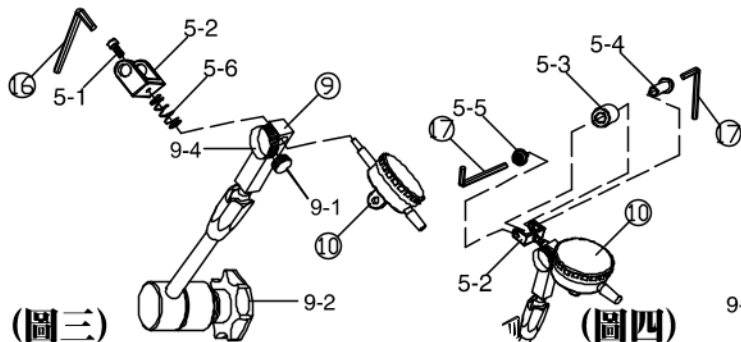


(圖二)

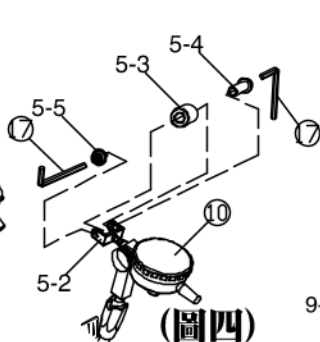
4. 先鬆開百分錶旋鈕(9-4)，將兩個百分錶⑩分別固定於萬向錶座⑨上，並旋緊百分錶旋鈕(9-4)。(如圖三所示)
5. 組裝正圓測量座組⑤於百分錶⑩上。
 - 5-1. 將右側百分錶⑩探針拆下。
 - 5-2. 使用六角扳手2 mm⑯，將螺絲M2.5(5-1)、U型托架(5-2)與彈簧(5-6)組裝於右側百分錶⑩上。(如圖三所示)
 - 5-3. 使用兩隻六角扳手3 mm⑰，組裝滾輪(5-3)、對鎖螺絲(母)(5-4)與對鎖螺絲(公)(5-5)於U型托架(5-2)上。(如圖四所示)
6. 組裝偏擺測量座組⑫於百分錶⑩上。
 - 6-1. 將左側百分錶⑩探針拆下。
 - 6-2. 使用六角扳手2 mm⑯，將螺絲M2.5(5-1)、培林固定板(12-5)組裝於左側百分錶⑩上。(如圖五所示)
 - 6-3. 使用六角扳手2 mm⑯與一字扳手，組裝皿型螺絲M3(12-4)、華司B(12-1)、深溝滾珠軸承(12-2)與培林固定軸(12-3)於培林固定板(12-5)上。(如圖六所示)



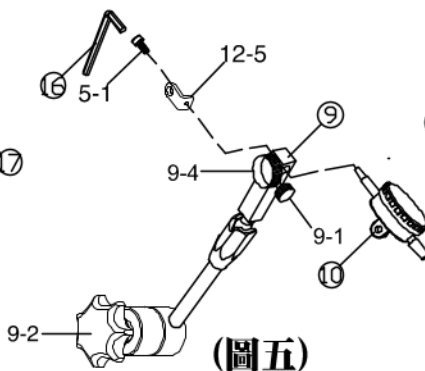
調整萬向錶座⑨前，請務必先放鬆錶座旋鈕(9-2)，否則將導致萬向錶座關節處損壞



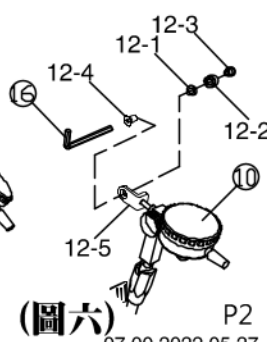
(圖三)



(圖四)



(圖五)



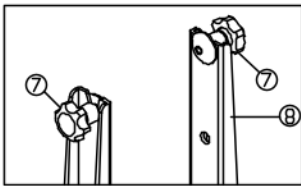
(圖六)

3 使用說明

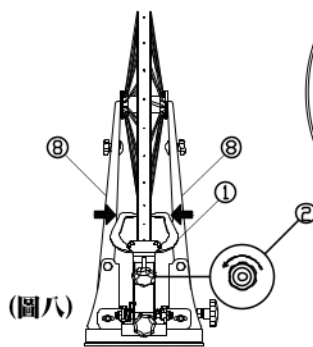
! 請確實固定花鼓於輪組夾臂⑧以確保校正精準度

輪圈初校正:

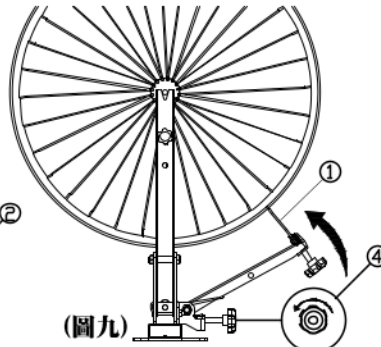
1. 固定花鼓於輪組夾臂⑧上，適用於快拆軸心與一般有牙軸心花鼓。(如圖八所示)
2. 當花鼓為直通軸心花鼓 (12~20mm)，請將花鼓托架組⑦固定於輪組夾臂⑧頂端。(如圖七所示)
3. 調整量測夾口旋鈕(短)②與量測臂旋鈕(長)④設定量測夾口①位置。(如圖八、九所示)
 - 3-1. 放鬆量測夾口旋鈕(短)②可使量測夾口①靠近輪圈以進行輪圈偏擺校正。(如圖八、十所示)
 - 3-2. 放鬆量測臂旋鈕(長)④可使量測夾口①靠近輪圈以進行輪圈正圓校正。(如圖九、十一所示)
4. 搭配使用輪組中心定位量規 (TB-1930) (選購)。
5. 重複步驟3-4進行初校正。



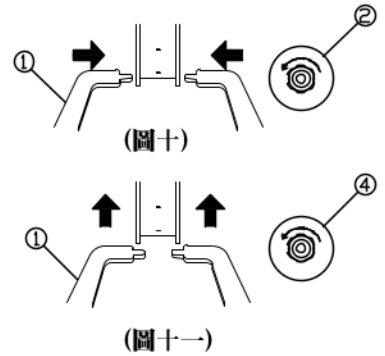
(圖七)



(圖八)



(圖九)



(圖十)

(圖十一)

輪圈校正:

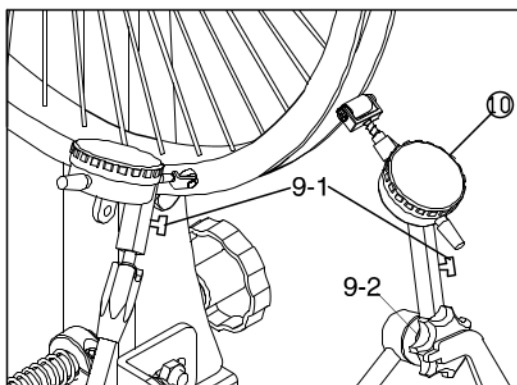
6. 初校正完成後，將量測夾口①移開。
7. 先放鬆錶座旋鈕 (9-2)，再移動百分錶⑩接近輪圈 (不接觸輪圈)，再將錶座旋鈕 (9-2) 鎖緊。
8. 調整微調鈕 (9-1)，讓百分錶⑩輕觸輪圈。(如圖十二所示)
9. 確認百分錶⑩與輪圈是互相垂直的。
10. 根據百分錶⑩的數據進行精確校正。
11. 搭配使用輪組中心定位量規 (TB-1930) (選配)。
12. 校正完成後調整微調鈕 (9-1)，讓百分錶⑩離開輪圈。
13. 再放鬆錶座旋鈕 (9-2)，再移動百分錶⑩遠離輪圈之後將錶座旋鈕 (9-2) 鎖緊。
14. 建議搭配輪圈校正台校正量規 (TB-PF33) (選配)，檢查與調整輪圈校正台。

! 百分錶⑩測量範圍為0.01 mm~5 mm，量測時請避免超過此範圍

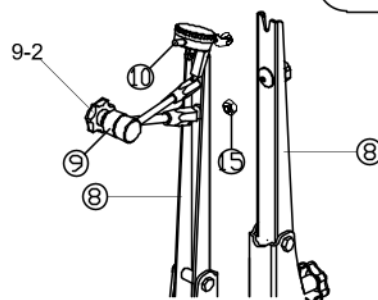
碟盤校正:

1. 放鬆錶座旋鈕 (9-2)，將左側萬向錶座⑨拆下。
2. 使用螺帽M8⑤將萬向錶座⑨固定於左側輪組夾臂⑧上。(如圖十三所示)
3. 放鬆錶座旋鈕 (9-2)，移動百分錶⑩接近碟盤 (不接觸碟盤)，再將錶座旋鈕 (9-2) 鎖緊。
4. 調整微調鈕 (9-1)，讓百分錶⑩輕觸碟盤。(如圖十四所示)
5. 確認百分錶⑩與碟盤是互相垂直的。(注意: 校正時，需避免百分表接觸散熱孔)
6. 根據百分錶⑩的數據進行精確校正，建議搭配碟盤校正工具 (TB-MW40) (選配) 使用。
7. 校正完成後調整微調鈕 (9-1)，讓百分錶⑩離開碟盤。
8. 放鬆錶座旋鈕 (9-2)，再移動百分錶⑩遠離碟盤之後將錶座旋鈕 (9-2) 鎖緊。

! 組裝左側萬向錶座⑧時，請勿讓百分錶⑩遭受撞擊，以免喪失精準度



(圖十二)



(圖十三)



(圖十四)