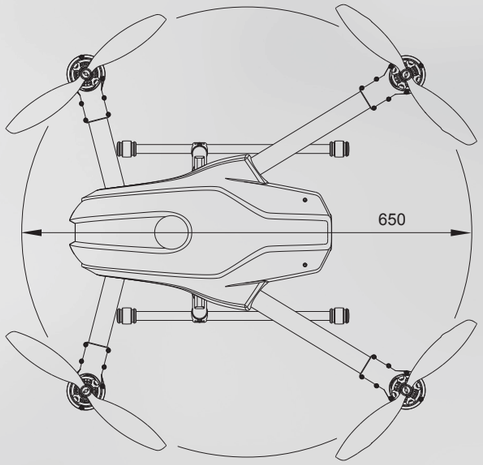
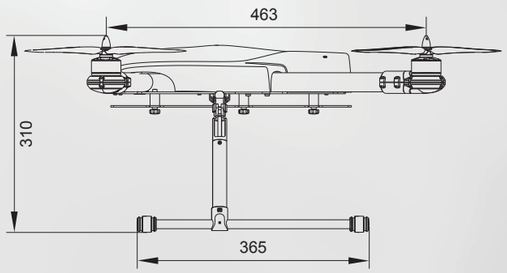










SPECIFICATIONS / 規格表

Product Name / 產品名稱	X650
Frame type / 機架類型	Quad-copter
Diagonal distance / 對角線馬達軸距	650mm
Frame weight / 機體重量	2.47Kg(motor,esc,prop. Inc'd)
Motor stator size / 馬達定子尺寸	41x14mm
Motor KV / 馬達KV值	340rpm/V
ESC current / 速控器電流值	30A
ESC voltage / 速控器電壓值	6S Lipo(22.2V)
Propeller size / 槳尺寸	14"x4.7"
Takeoff weight / 起飛重量	3.2Kg(6S/6000mAh)
Max hover time (est.) / 最大滯空時間(預估)	18mins(6000mAh)

FEATURES / 特色

1. Enlarged frame plates provide abundant assembly space for electron systems
2. Safety protection and clean look design for the internal electron system
3. Compatible for major flight control systems & gimbals on the market
4. Foldable arms design is easy to pack and transport
5. Retractable landing skid with stable carbon fiber landing poles
6. Under mounted battery plate system with better center of gravity and stable flight
7. Pre-painted body with sleek scheme

1. 加大機架提供充足的電子系統配置空間
2. 兼具安全保護和簡潔美觀的內藏式電子配置方式
3. 可搭載所有主流飛控系統與雲台機構
4. 可收折機臂設計方便收納與攜帶
5. 高強度碳纖腳架並內建自動收腳功能
6. 下置式電池板可有效調節機體重心,提升飛行穩定度
7. 原廠塗裝機殼

THUNDER TIGER
thundertiger.com

JK6195

TTR Robotix

SUPER HORNET X650

No.4000



INSTRUCTION MANUAL

組 裝 說 明 書

This product is not a toy. Before you assemble and use this product, please read this manual thoroughly.
This product and its contents may different from the graphics shown on this manual and are subject to change without prior notice due to product improvements and specification changes.

本產品非一般玩具，組裝與操作前請詳閱本產品說明書。
本產品及所附零件可能跟圖示有所差異。因產品後續之設計研發或功能不斷改善之原因，我們將保留產品規格變更權利，不再另行通知使用者。

THUNDER TIGER

More information can view the tutorial videos on our TTR web page (www.ttrobotix.com) or YouTube channel (https://www.youtube.com/user/ThunderTigerVideo)
您可登入TTR官網或YouTube官方頻道，以獲取最新的產品資訊與更詳盡的產品說明

SUPER HORNET X650

Thank you for purchasing the TTR product. This product is a high-precision drone. Any misuse may result in damage to property, injury, or even death. The user must conform to the law and use the equipment responsibly. This product is not suitable for people under the age of 18. Please read the instruction manual and tutorial videos before using the product, or visit the TTR web page at www.ttrobotix.com refer to relevant updates or information.

感謝您購買TTR產品。本產品是一項結構精密、高專業度的飛行器。錯誤操作可能物體損害、人員受傷甚至死亡，用戶須承擔相應的刑事責任。本產品不適合未滿18歲的未成年人使用。使用前請詳閱組裝說明書與導覽影片，或直接登入TTR官網查詢產品相關訊息。

WARNING / 警告

- Please keep this product out of reach of children under 3 years old.
  請把產品放在3歲以下兒童可觸及範圍之外
- Always fly this product away from people and dangers such as buildings, roads and property. We suggest you fly your drone at specially designated areas.
  確保飛行器飛行時遠離人群及危險物品，建議您在專用的飛行場地飛行
- Please do not fly this product when affected by drunkenness, tiredness, drugs, dizziness fatigue, nausea or any other condition that might impair your ability to control the drone.
  請勿在飲酒、疲勞、服藥、頭昏、嘔吐或其他精神狀態不佳的情況下任何操作此產品
- Please make sure all components of the device are connected well and working properly, otherwise, this product may be damaged, destroyed or even burnt.
  飛行前請確保供電系統及其他功能模塊連接正確，否則可能造成設備的燒毀
- Please do not fly this product in unfavorable conditions.
  請勿在惡劣環境下飛行

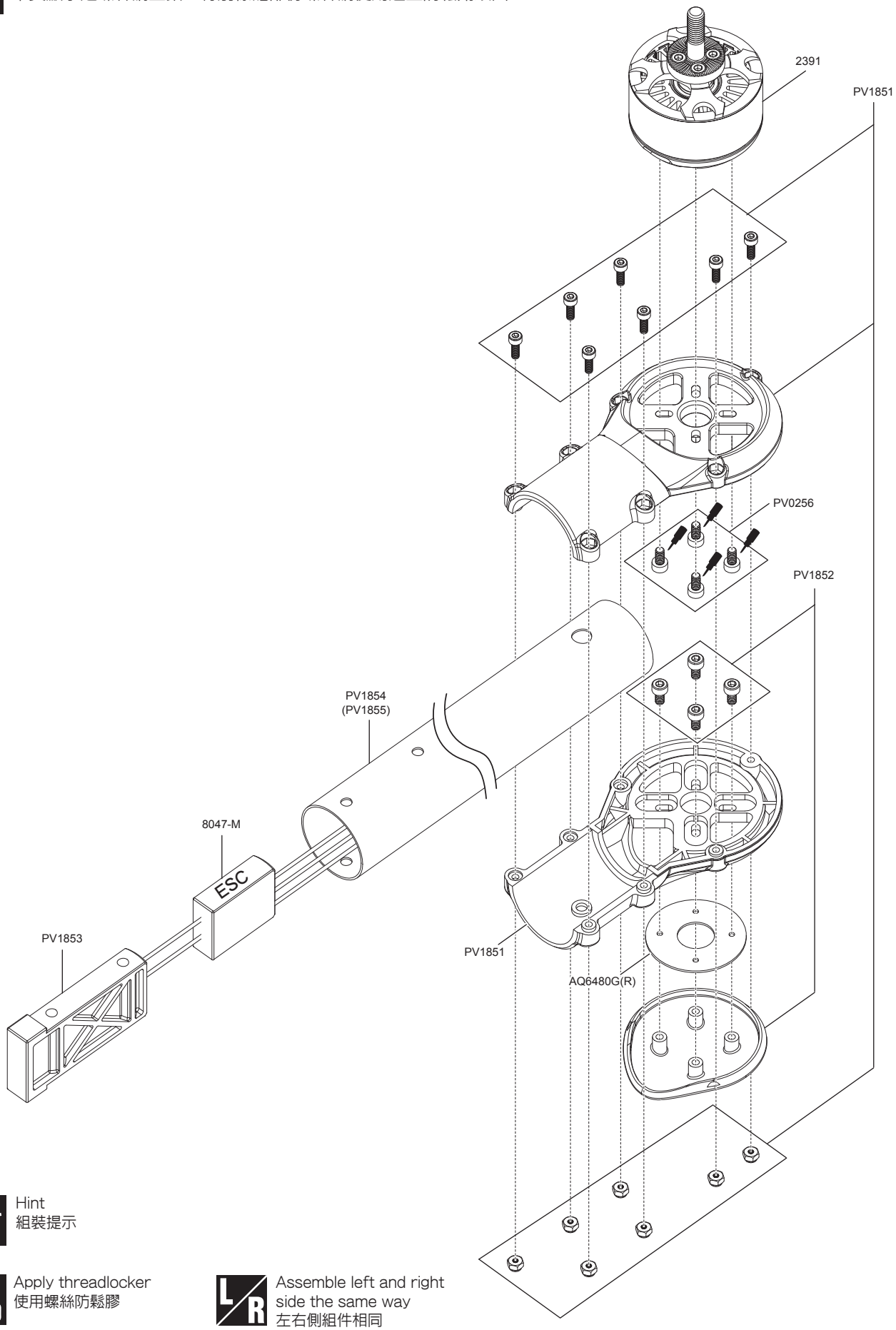
DISCIAIMER / 免責聲明

Read this disclaimer carefully before using this product. By using this product, you hereby agree to this disclaimer and signify that you have read them thoroughly. Please strictly follow the instruction manual to assemble and use this product. The manufacturer and seller assume no liability for any resulting damage or injury arising from the operation or use of this product.

任何用戶在使用本產品之前，請仔細閱讀本聲明，一旦使用，即被視為對本聲明全部內容的認可與接受。請嚴格遵守組裝說明書安裝和使用該產品。鑒於TTR無法控制用戶的具體使用、安裝、改裝以及使用不當等情況，由以上所造成的損害或損傷，TTR將不承擔相應的損失與賠償責任。

MOTOR MOUNT / 馬達座

Secure all screws shown on this page, the marked parts with dropping a few threadlocker especially.
本頁顯示之螺絲請上緊，特別標記部份螺絲請使用適量防鬆劑鎖固。



Hint
組裝提示

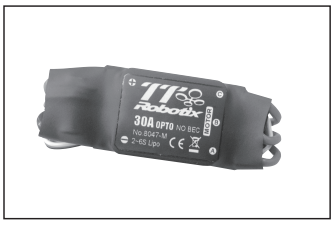
Apply threadlocker
使用螺絲防鬆膠

L/R Assemble left and right side the same way
左右側組件相同

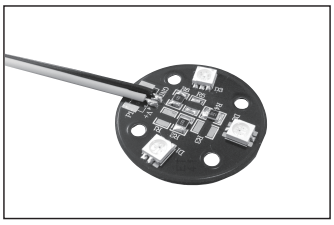
SPARE PARTS / 維修零件包



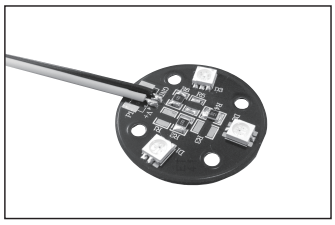
2391
無刷馬達, OBL M4114 320KV
BL MOTOR, OBL M4114 320KV



8047-M
速控器, 30A OPTO
ESC, 30A OPTO



AQ6480G
LED電路板組（綠）
LED-GREEN SET



AQ6480R
LED電路板組（紅）
LED-RED SET



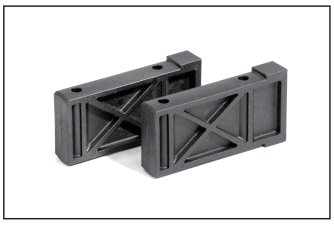
PV0256
內六角螺絲, M3x6
SOCKET SCREW, M3x6



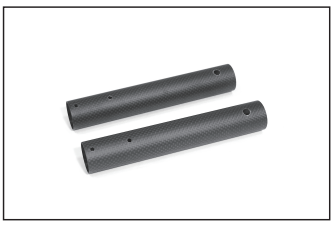
PV1851
馬達座組
MOTOR MOUNT SET



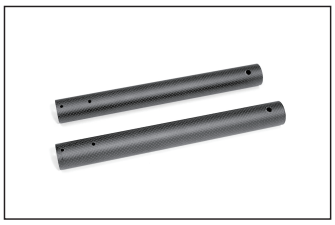
PV1852
LED燈罩
LED CASE



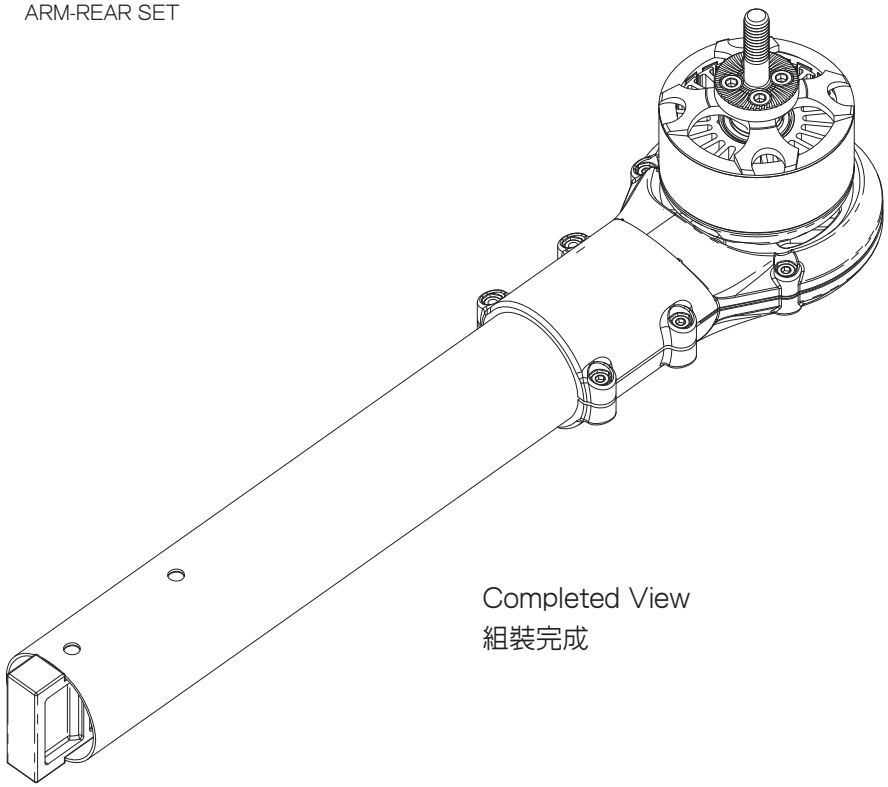
PV1853
轉座固定片組
INSERT ARM SET



PV1854
前碳纖機臂組
ARM-FRONT SET



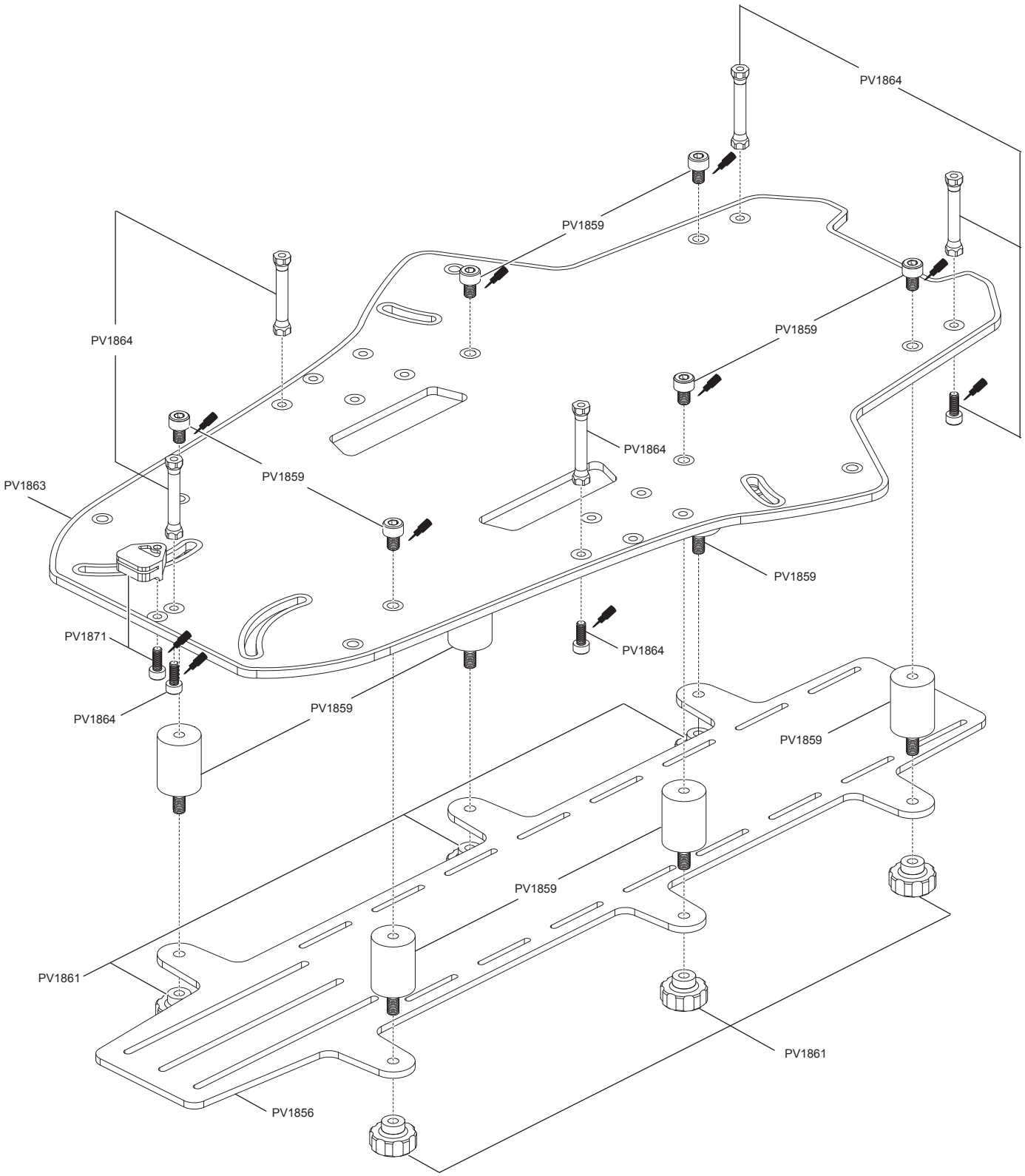
PV1855
後碳纖機臂組
ARM-REAR SET



Completed View
組裝完成

BATTERY TRAY / 電池板

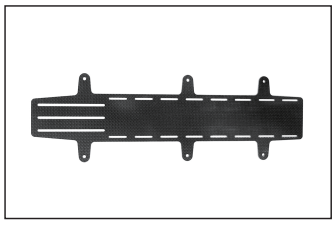
Secure all screws shown on this page, the marked parts with dropping a few threadlocker especially.
本頁顯示之螺絲請上緊，特別標記部份螺絲請使用適量防鬆劑鎖固。



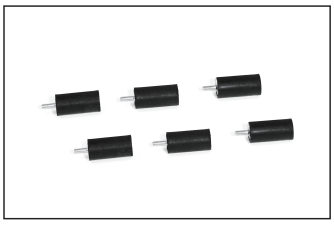
Hint
組裝提示

Apply threadlocker
使用螺絲防鬆膠

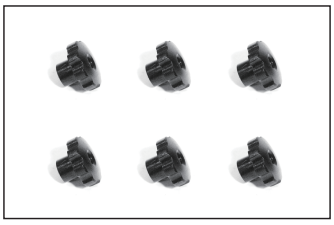
SPARE PARTS / 維修零件包



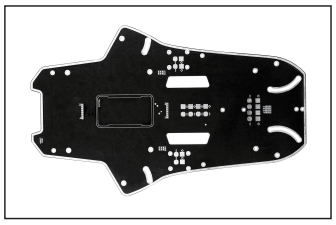
PV1856
電池碳纖板組
BATTERY TRAY SET



PV1859
避震螺絲組
DAMPER SCREW SET



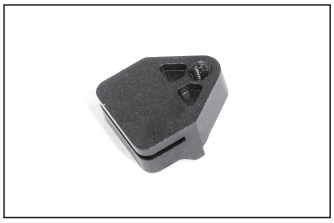
PV1861
電池板固定旋鈕組
KNUCKLE-BATTERY SET



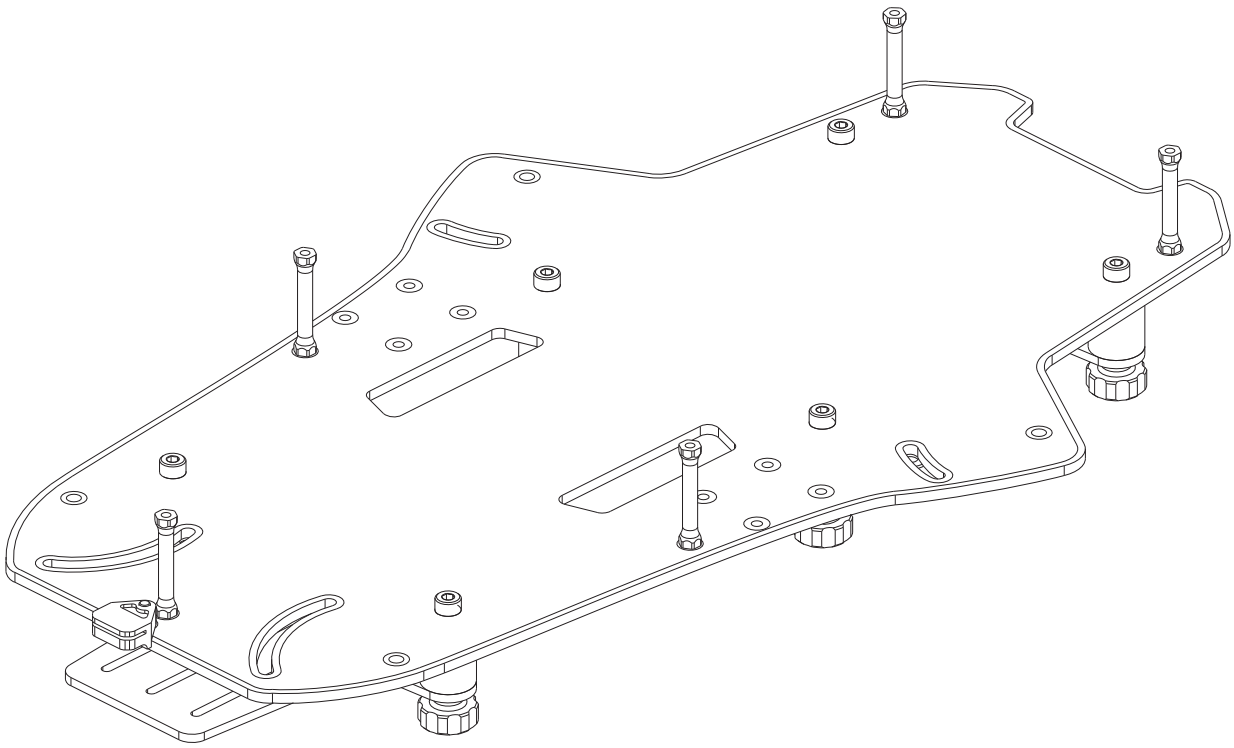
PV1863
主體下板組
MAIN FRAME-LOWER SET



PV1864
主體支柱組
FRAME POST SET



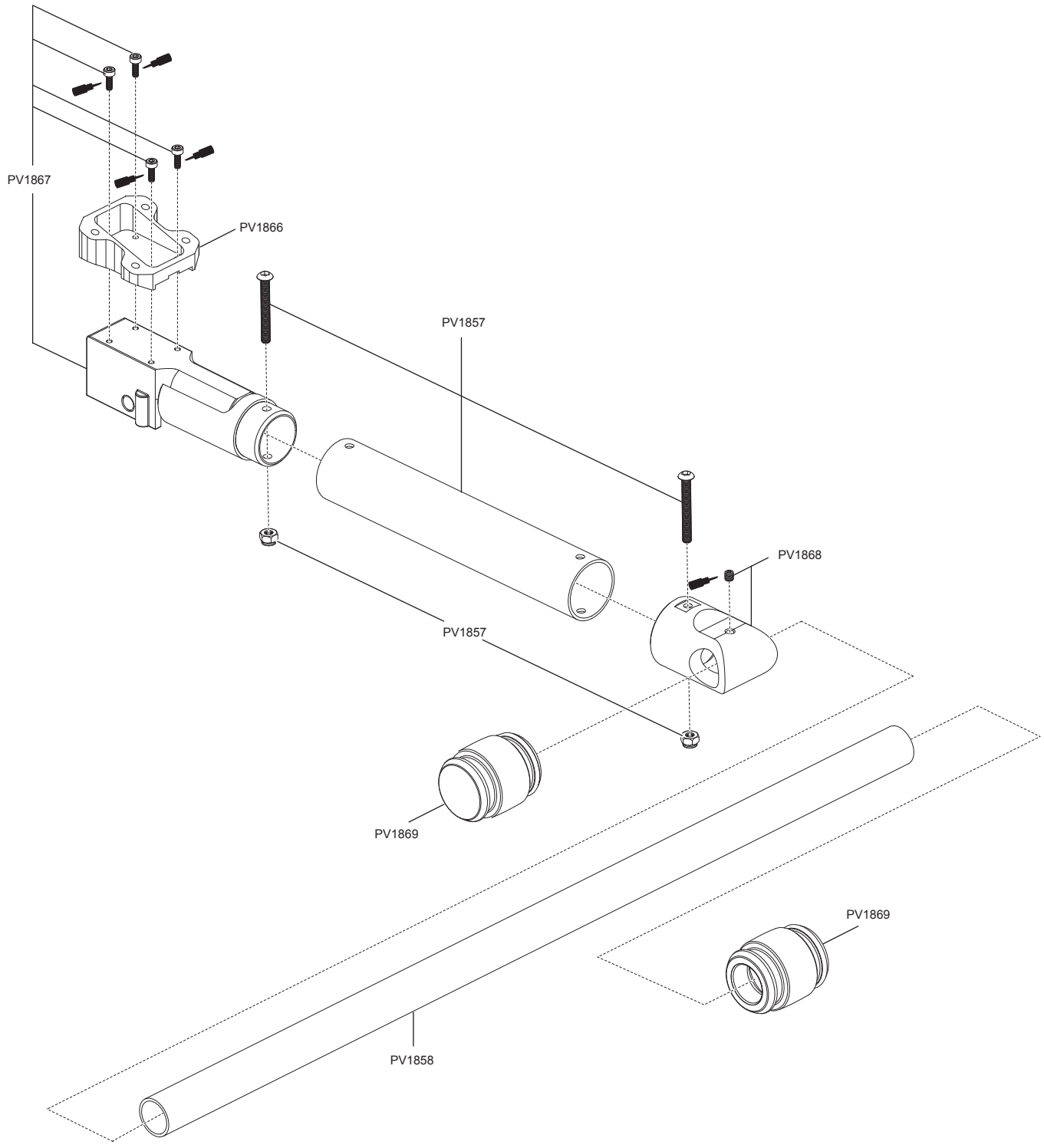
PV1871
機殼固定扣
CANOPY CLIP



Completed View
組裝完成

LANDING SKID / 腳架

Secure all screws shown on this page, the marked parts with dropping a few threadlocker especially.
本頁顯示之螺絲請上緊，特別標記部份螺絲請使用適量防鬆劑鎖固。

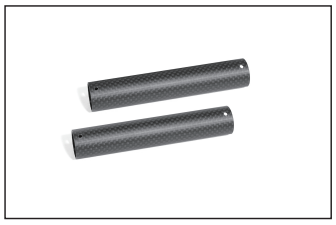


Hint
組裝提示

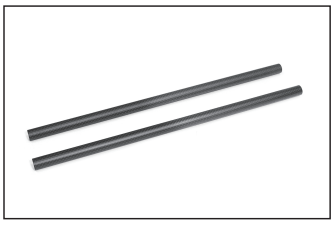
Apply threadlocker
使用螺絲防鬆膠

Assemble left and right side the same way
左右側組件相同

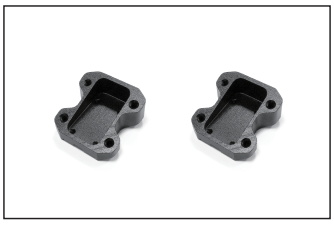
SPARE PARTS / 維修零件包



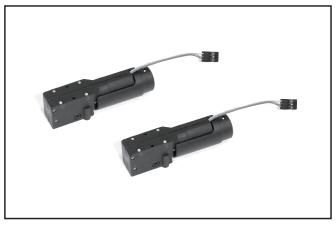
PV1857
腳架碳管上
LANDING SKID PIPE-UPPER



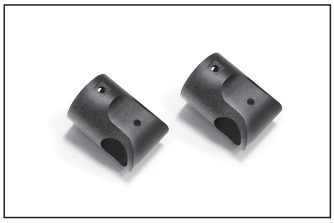
PV1858
腳架碳管下
LANDING SKID PIPE-LOWER



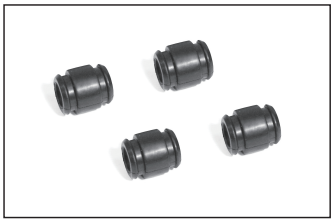
PV1866
起落架固定座組
LANDING SKID HOLDER SET



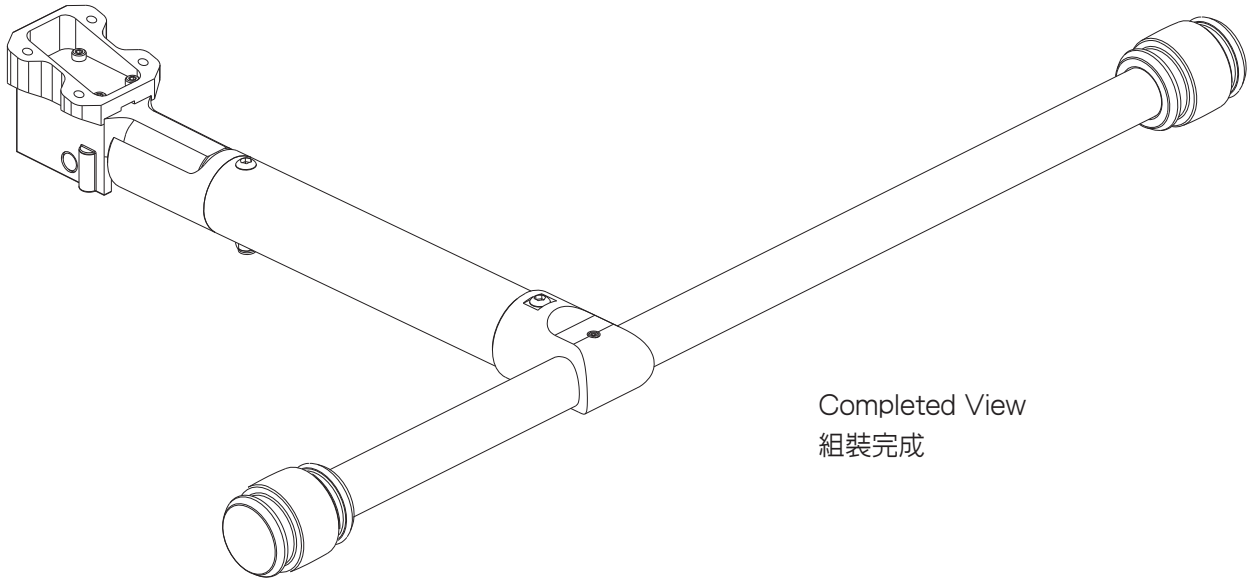
PV1867
電動收腳伺服機
LANDING SKID SERVO



PV1868
腳架T座組
LANDING SKID T-NUT



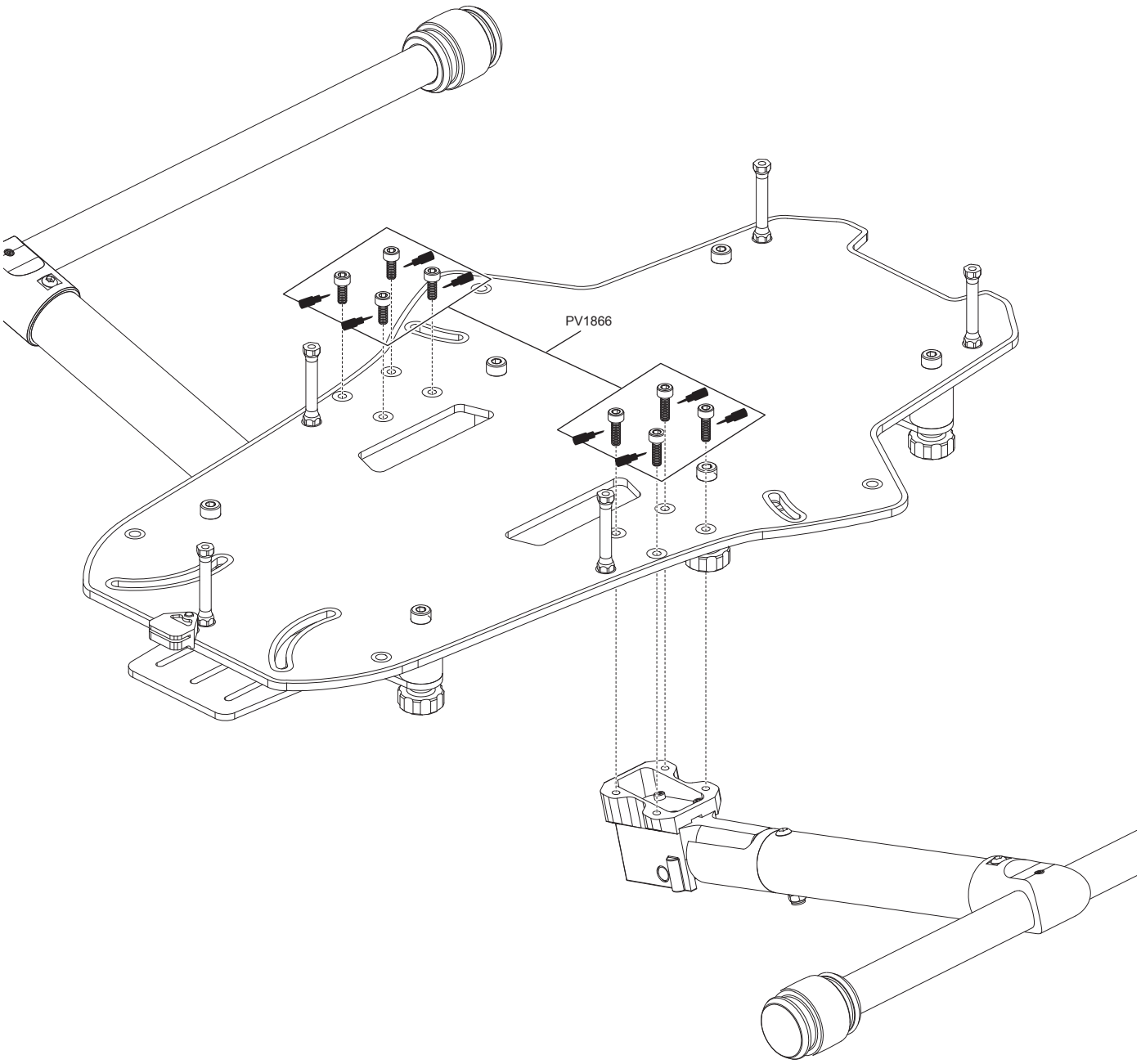
PV1869
腳架緩衝膠組
SKID DAMPER



Completed View
組裝完成

MAIN FRAME-LOWER (LANDING SKID) / 主體下板(腳架)

Secure all screws shown on this page, the marked parts with dropping a few threadlocker especially.
本頁顯示之螺絲請上緊，特別標記部份螺絲請使用適量防鬆劑鎖固。

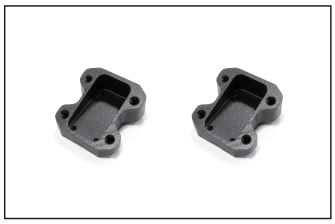


Hint
組裝提示

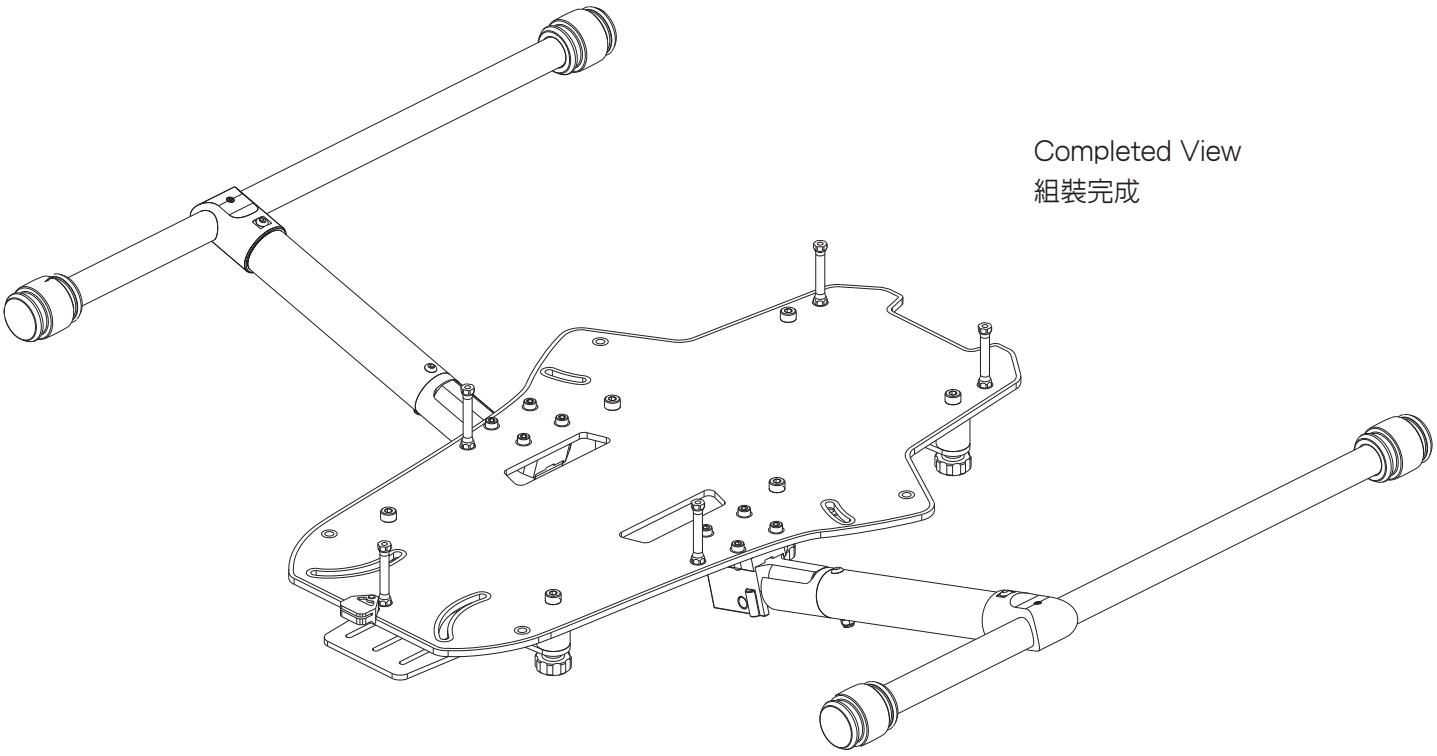
Apply threadlocker
使用螺絲防鬆膠

Assemble left and right side the same way
左右側組件相同

SPARE PARTS / 維修零件包



PV1866
起落架固定座組
LANDING SKID HOLDER SET

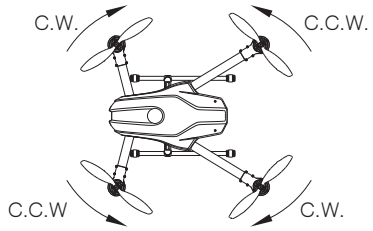


Completed View
組裝完成

MAIN FRAME - UPPER & PROPELLER / 主體上板與螺旋槳

Secure all screws shown on this page, the marked parts with dropping a few threadlocker especially.
本頁顯示之螺絲請上緊，特別標記部份螺絲請使用適量防鬆劑鎖固。

Diagram for Propeller Assembly
螺旋槳組裝示意圖



Please note the orientation of the propeller. If they are not assembled properly as illustrated, drone can not takeoff and result in unexpected damage
請注意螺旋槳安裝方向。假如安裝錯誤，飛行器將無法正常起飛並造成機構損壞。

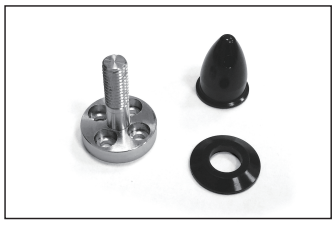
Hint
組裝提示

Ensure smooth, non-binding movement when assembling
確認組件靈活度

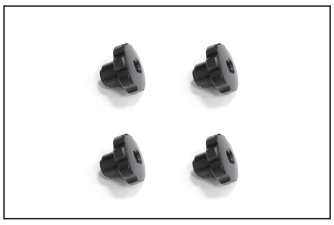
Assemble left and right side the same way
左右側組件相同

Apply threadlocker
使用螺絲防鬆膠

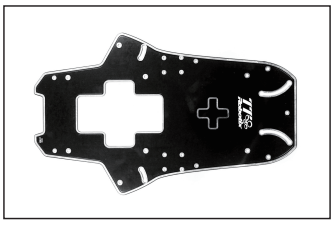
SPARE PARTS / 維修零件包



AC7220
機頭螺帽零件包
PROPLLER ADAPTER



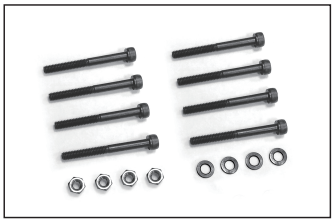
PV1860
固定旋鈕組
KNUCKLE SET



PV1862
主體上板組
MAIN FRAME-UPPER SET



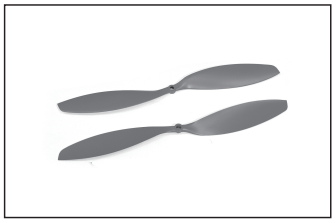
PV1864
主體支柱組
FRAME POST SET



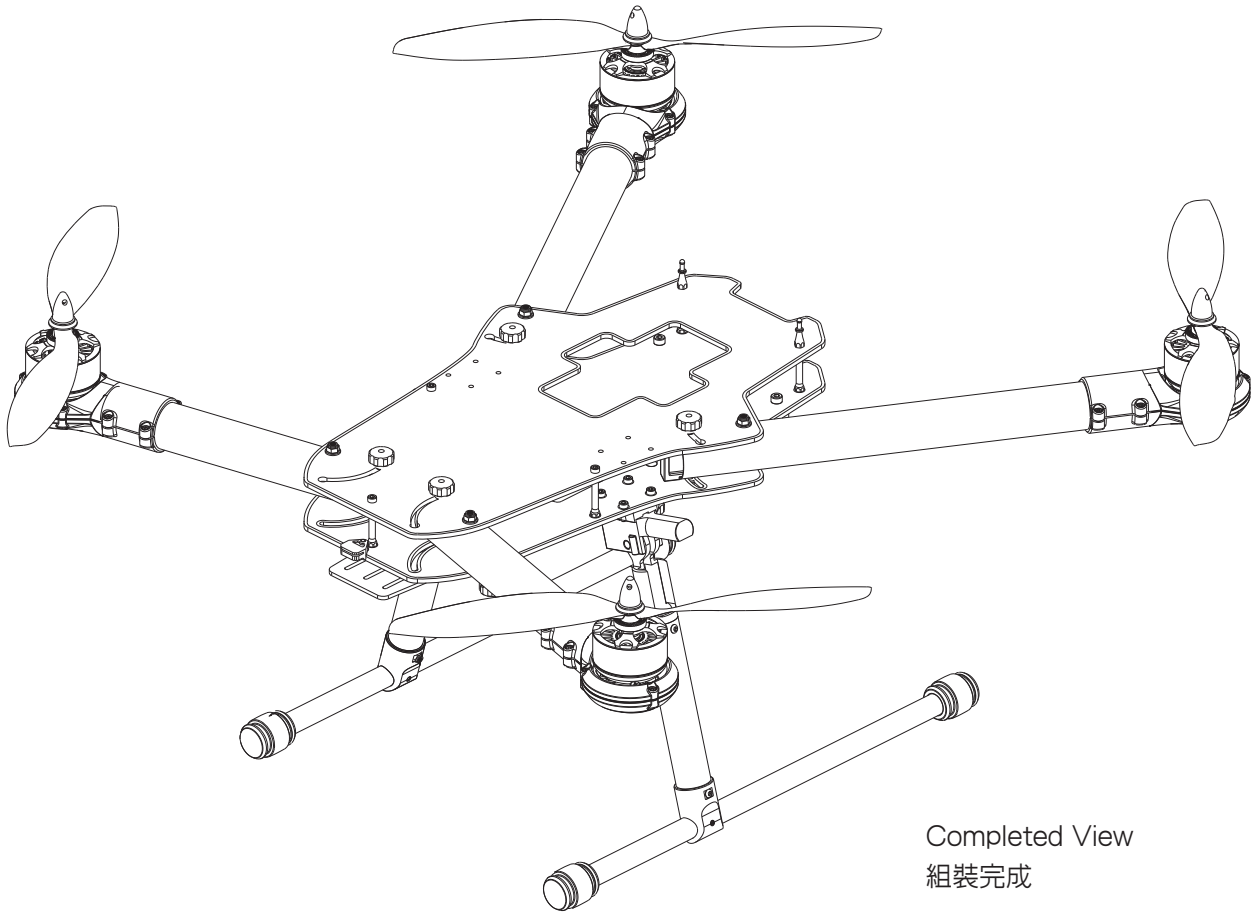
PV1865
機臂螺絲組
ARM SCREW SET



PV1872
14吋正反槳組
PROPELLER SET(1447)

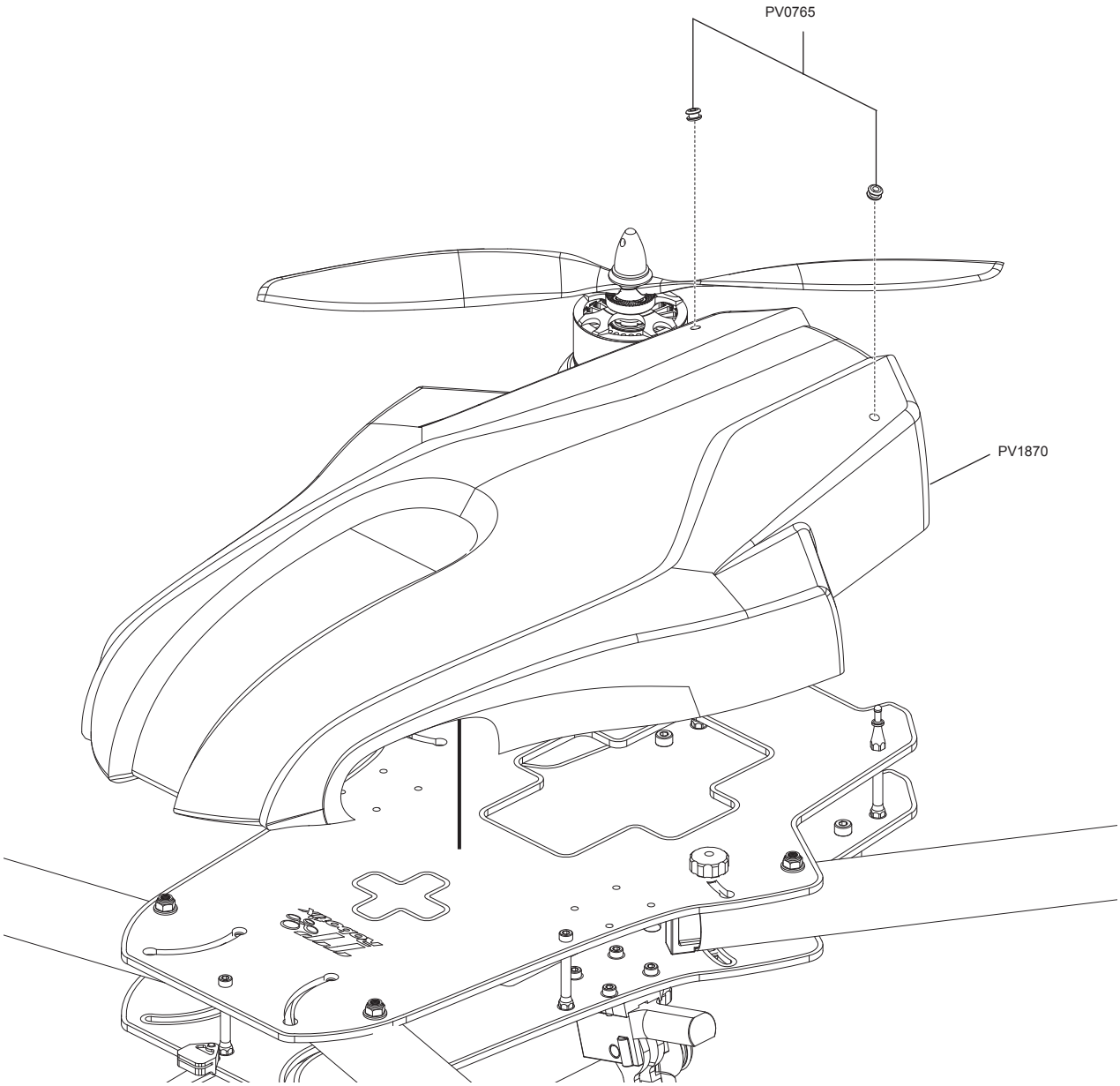


PV1872-O
14吋正反槳組 (橘)
PROPELLER (O) SET(1447)

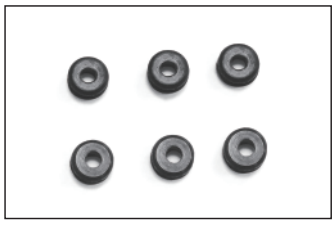


Completed View
組裝完成

CANOPY / 機殼



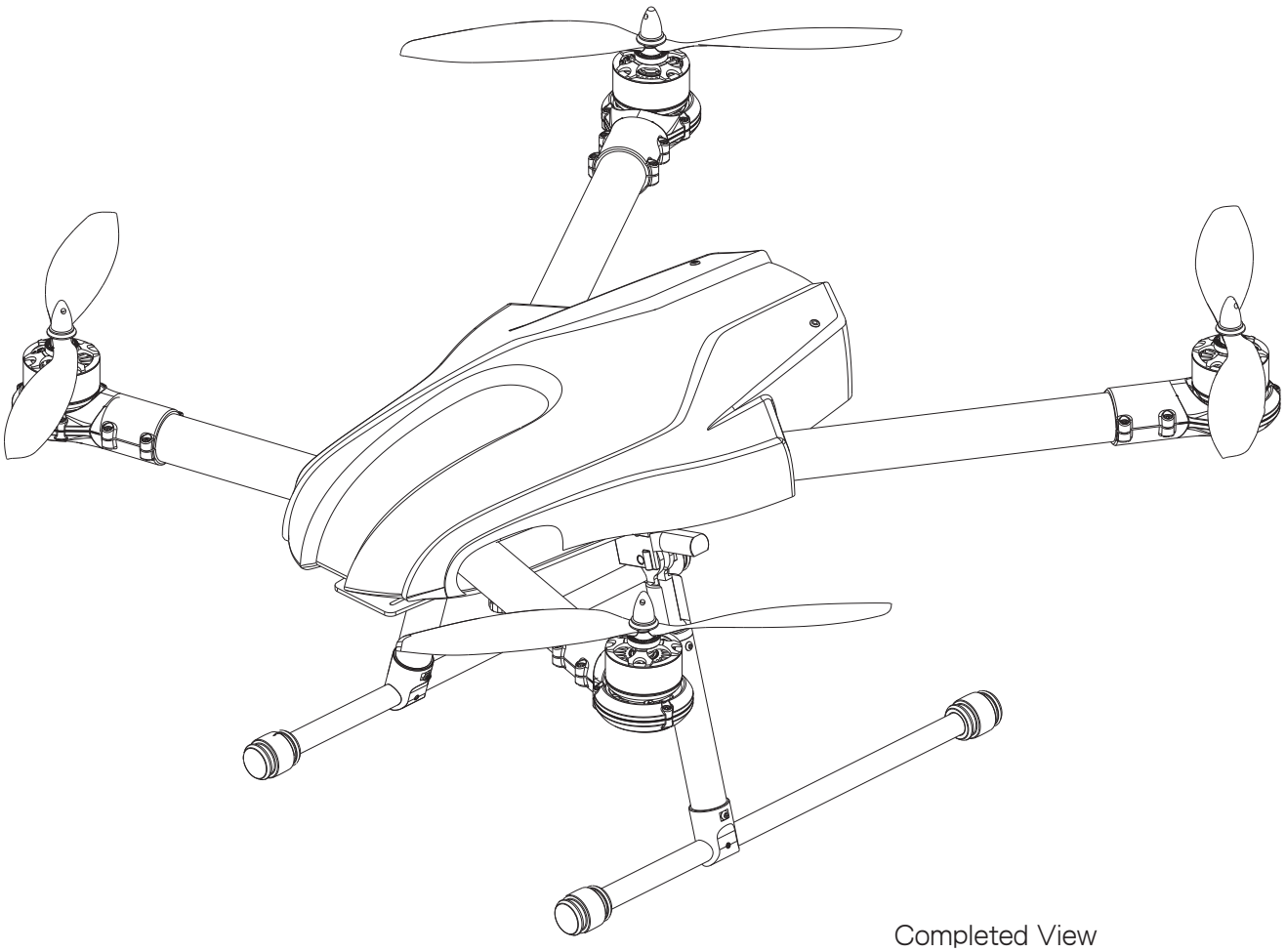
SPARE PARTS / 維修零件包



PV0765
機身固定墊圈
CANOPY MOUNT RUBBER



PV1870
彩繪機殼組
CANOPY



Completed View
組裝完成