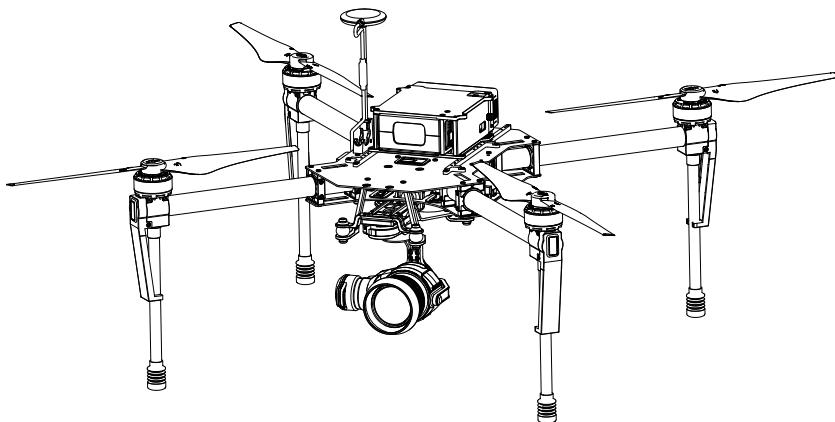


DJI M100-ZENMUSE X5 Series

Gimbal Installation Kit

Installation Guide

V1.0 2016.02



Searching for Keywords

Search for keywords such as "battery" and "install" to find a topic. If you are using Adobe Acrobat Reader to read this document, press Ctrl+F on Windows or Command+F on Mac to begin a search.

Navigating to a Topic

View a complete list of topics in the table of contents. Click on a topic to navigate to that section.

Printing this Document

This document supports high resolution printing.

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Disclaimer

Thank you for purchasing the DJI M100–Zenmuse X5 series gimbal installation kit (abbreviated as “X5 series gimbal installation kit”). By using this product, you hereby agree to this disclaimer and signify that you understand all points completely. Please use this product in strict accordance with the manual and be sure to pay attention to the warnings. When assembling and using this product, follow all instructions carefully. SZ DJI TECHNOLOGY CO., LTD. and its affiliated companies assume no liability for damage(s) or injuries incurred directly or indirectly from improper use of this product.

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This disclaimer is produced in various languages. In the event of divergence among different versions, the Chinese version shall prevail when the product in question is purchased in Mainland China, and the English version shall prevail when the product in question is purchased in any other region.

Using This Manual

Legend

⊖ Warning

⚠ Important

If you encounter any problems or if you have any questions, please contact your local DJI authorized dealer or DJI Support.

DJI Support Website:
www.dji.com/support

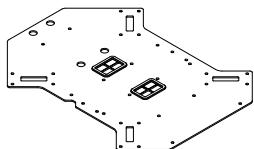


Product Profile

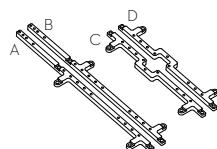
The X5 Series Gimbal Installation Kit provides all the necessary parts to install the Zenmuse X5 series gimbal and camera onto the Matrice 100 aircraft.

In the Box

Upper Plate x 1



Mounting Rail Set x 1



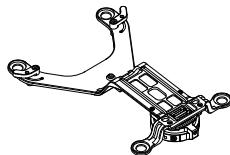
Gimbal Mounting
Bracket A x 1



Gimbal Mounting
Bracket B x 2



Gimbal Mounting Plate x 1



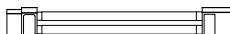
Damper x 4



Landing Gear Leg (185 mm) x 4



Battery Power Extension
Cable x 1



8-Pin Gimbal Cable x 1



10-Pin Gimbal Cable x 1



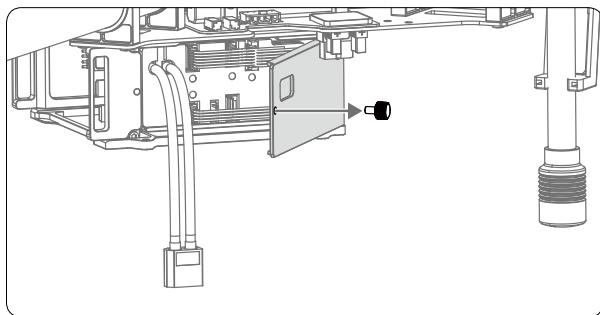
Installation

Removing the Battery Compartment and Mounting Rails

The following example uses a Matrice 100 with the battery installed under the center frame.

 Power off the aircraft and remove the Intelligent Flight Battery before installation.

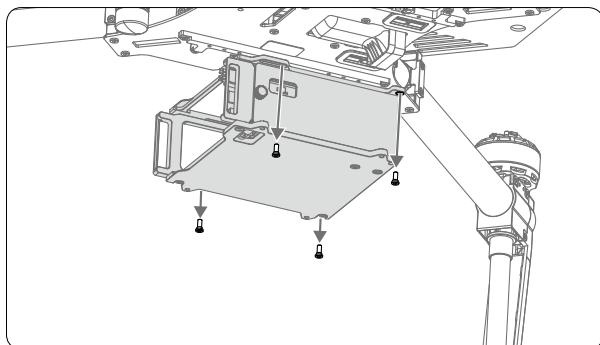
1. Open the battery cover by removing the screw.



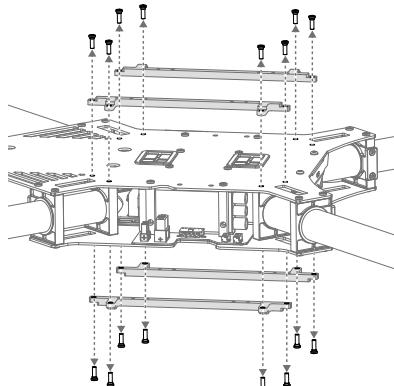
2. Remove all cables connected to the battery compartment and the center frame, including the Aircraft Status Indicator cable, CAN cable, signal cable and Flight Controller's power cable.

 The cables are delicate parts. Handle with care.

3. Remove the four screws (M2.5x5) on the battery compartment. Then remove the battery compartment.

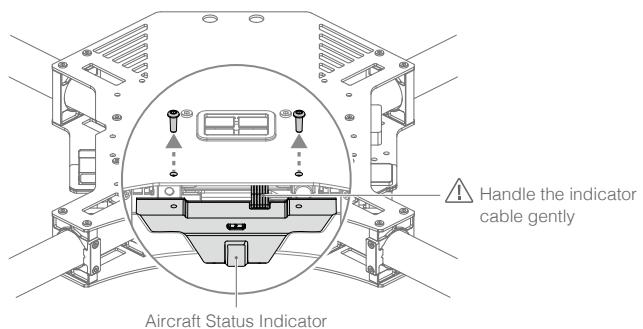


4. Remove the eight screws (M2.5x8) for the mounting rails on the upper and lower plates of the center frame.

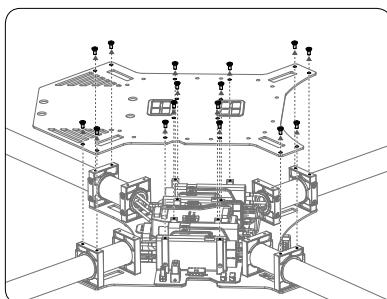


Replacing the Upper Plate

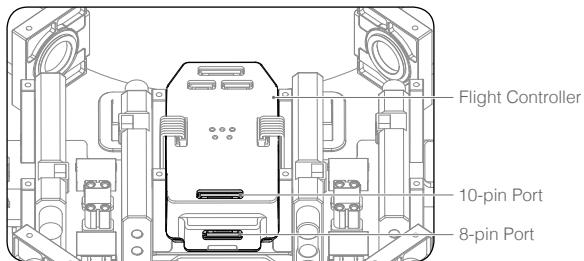
1. Remove the two screws (M3x8 self-tapping) on the Aircraft Status Indicator. Then gently remove the indicator without damaging the cables.



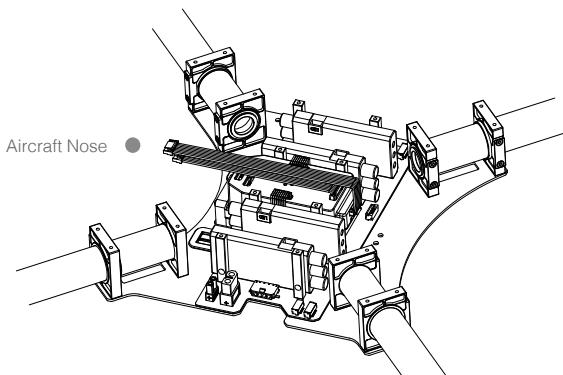
2. Remove the 16 screws (M2.5x5) on the original upper plate. Then remove the upper plate.



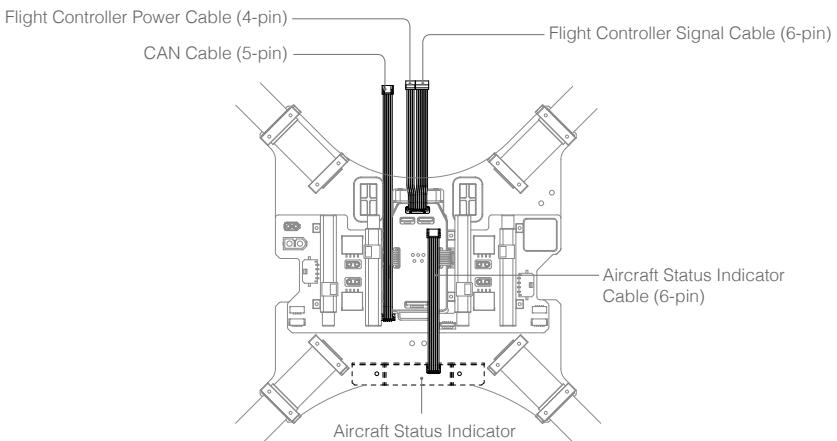
3. Connect one end of the 10-pin and 8-pin gimbal cables to the Flight Controller.

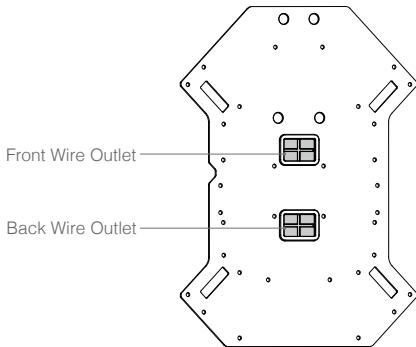


4. Arrange the other ends of the gimbal cables near the nose of the aircraft.

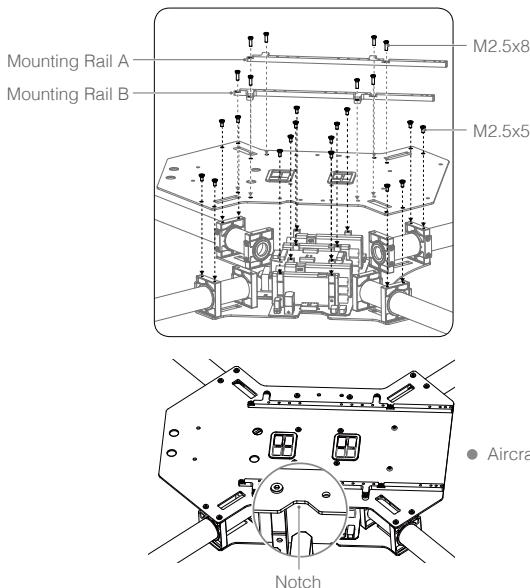


5. Hold the new upper plate with the notch facing the left of the aircraft (with its tail facing you). Pull the Flight Controller's CAN cable, signal cable and power cable through the front wire outlet, and then pull the Aircraft Status Indicator cable through the back wire outlet.

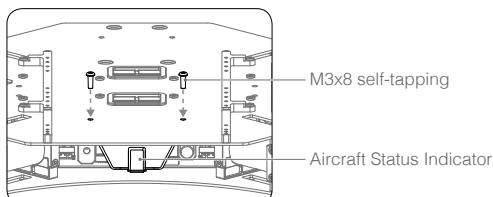




6. Mount the new upper plate onto the center frame and tighten the 16 screws (M2.5x5). Then, mount the new mounting rails A and B, and tighten the eight screws (M2.5x8).

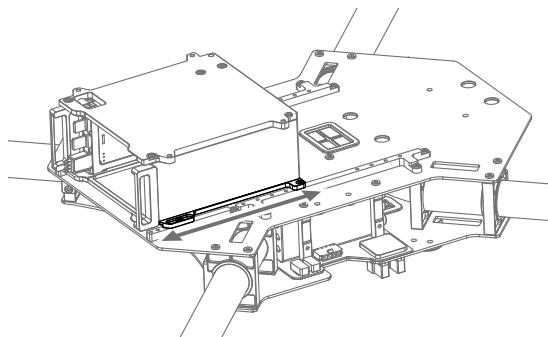


7. Re-mount the Aircraft Status Indicator and tighten the two screws (M3x8 self-tapping). Do not over tighten the screws to avoid damaging the threads.

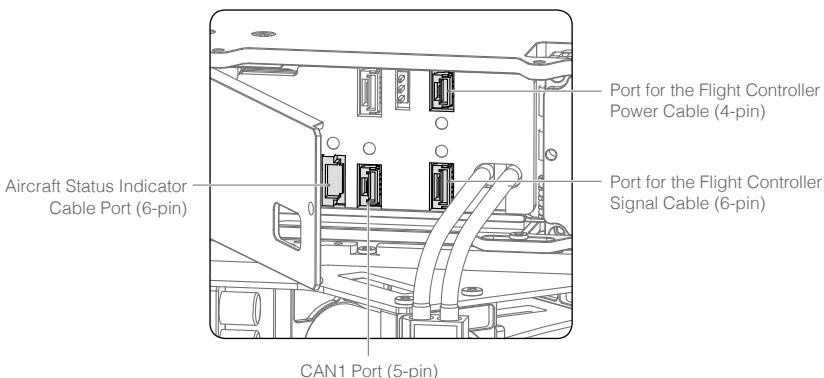


Mounting the Battery Compartment

1. Mount the battery compartment (with the metal terminals facing the tail of the aircraft) onto the upper plate's mounting rails. Adjust the aircraft's center of gravity by moving the battery compartment along the mounting rails and then tightening the four screws (M2.5x5).

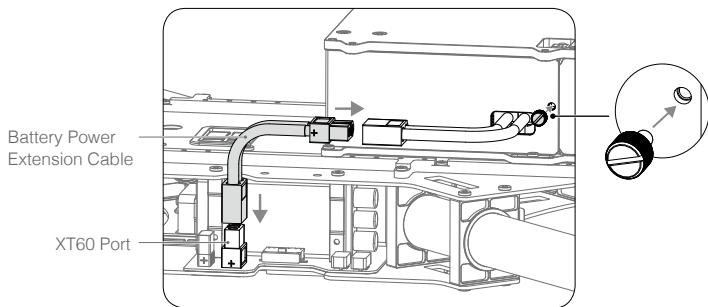


2. Connect the Aircraft Status Indicator cable to the 6-pin port.
3. Connect the Flight Controller's power and signal cables to the 4-pin and 6-pin ports respectively.
4. Connect the lower plate's CAN cable to the CAN1 port.



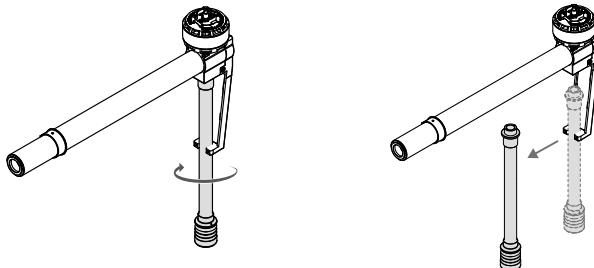
- The 6-Pin port with a yellow sticker is reserved. DO NOT connect any cables to this port.
- Pull the above cables through the opening behind the battery cover, towards the nose of the aircraft, before connecting them.

5. Pull the battery's power extension cable through the hole on the battery cover and connect it to the center frame's XT60 port.
6. Close the battery cover and tighten the screw.

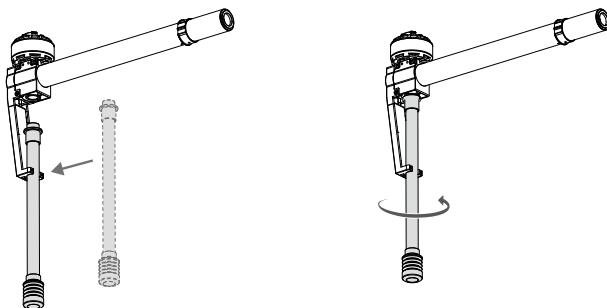


Replacing the Landing Gear Leg

1. Unscrew the four landing gear legs from the frame arms and remove them.



2. Slide the new, longer landing gear leg into the notch of the antenna cover and screw it onto the frame arm.

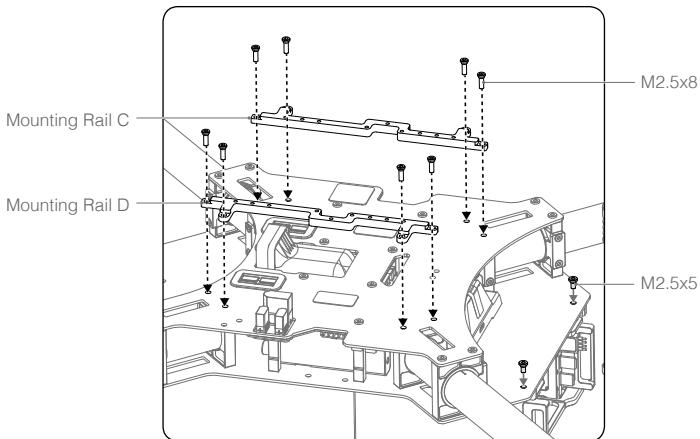


Be careful not to damage the antennas when replacing the landing gear legs.

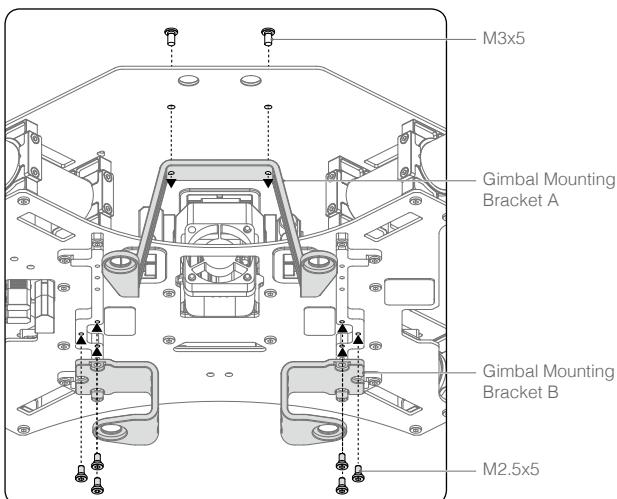
Mounting the Gimbal

⚠ The aircraft will weigh about 3.1 kg after the X5 series gimbal is attached. Be careful not to mount additional components, such as extra battery compartments or the DJI Guidance, which may cause it to exceed the maximum takeoff weight.

1. Mount the mounting rails C and D onto the center frame's lower plate and tighten the eight screws (M2.5x8).

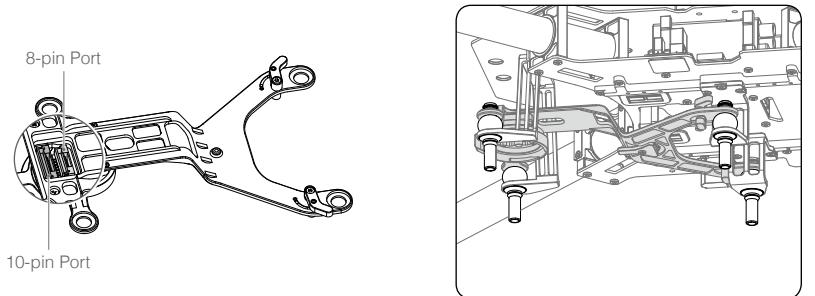


2. Mount the Gimbal Mounting Bracket A onto the new upper plate and tighten the two screws (M3x5). Then mount the two Gimbal Mounting Brackets B onto the lower plate's mounting rails and tighten the six screws (M2.5x5).



3. Mount the Gimbal Mounting Plate

- ① Connect the other ends of the 10-pin and 8-pin gimbal cables to their corresponding ports on the Gimbal Lock.
- ② Mount the Gimbal Mounting Plate and dampers to the Gimbal Mounting Brackets.



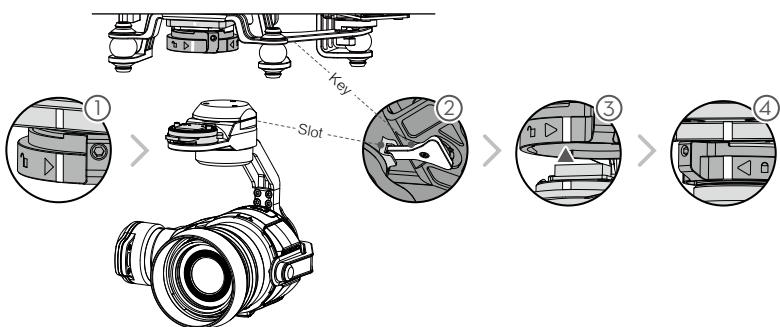
⚠ The dampers may deteriorate over time. Ensure that all dampers are in good condition before each flight, and NEVER use worn or broken dampers.

4. Mount the Gimbal

Make sure the aircraft is powered off when mounting the gimbal.

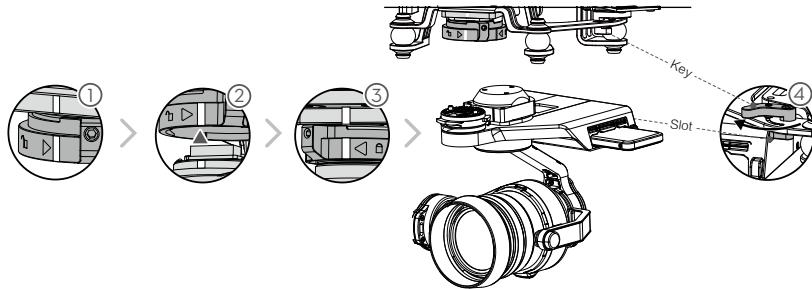
Zenmuse X5

- ① Rotate the Gimbal Lock to the unlocked position.
- ② Align the key on the damping plate with the slot on the gimbal's pan motor.
- ③ While aligning the white lines on the Gimbal Connector and Gimbal Lock, insert the Gimbal Connector.
- ④ Rotate the Gimbal Lock to the locked position.



Zenmuse X5R

- ① Rotate the Gimbal Lock to the unlocked position.
- ② While aligning the white lines on the Gimbal Connector and Gimbal Lock, insert the Gimbal Connector.
- ③ Rotate the Gimbal Lock to the locked position.
- ④ Turn the two keys on the other end of the mounting plate 90 degrees into the slots.



Be careful not to damage the gimbal connector and its metal contacts when attaching or storing the Zenmuse X5 series gimbal.

This content is subject to change.

Download the latest version from
<https://developer.dji.com/matrice-100>

If you have any questions about this document, please contact DJI by sending a message to DocSupport@dji.com.

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