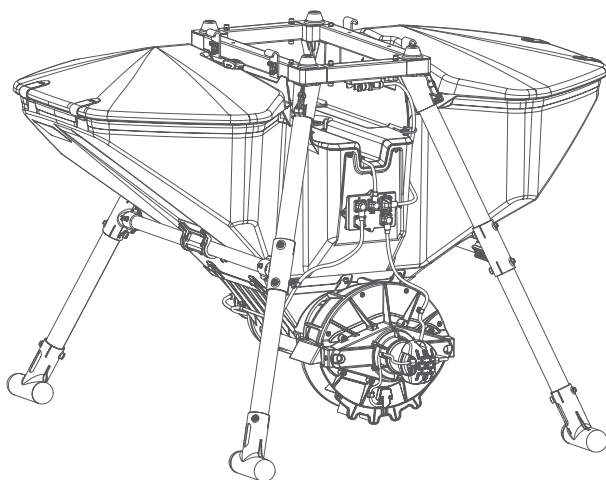


XAG P150 Max RevoCast 5

User Manual

Version 1.0 EN



To User

Dear user, thank you for choosing XAG's products.

For safety purposes and better user experience, it is highly recommended that you read this manual carefully and strictly follow the instructions hereof.

Contact Us

Manufacturer: Guangzhou Xaircraft Technology Co., Ltd.

Add: Building 1, No. 9 Xinrui Road, Huangpu District, Guangzhou, P.R.China

Technical Support Team: support@xa.com

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Safety Guidelines

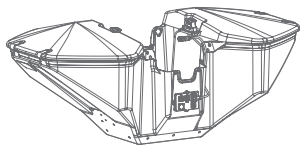
- XAG P150 Max RevoCast 5 (Model: M4RCP115BH) is only compatible with XAG P150 Max Agricultural Drone. Do not use it with other products or for non-agricultural purposes.
- The product is designed only for dry solid granules 1–10 mm in diameter that do not stick to the touch.
- Do not use materials outside the specified range. Doing so may reduce performance, damage the product, or cause incidents. Always follow the usage instructions provided for the material.
- Operate only in sunny, cloudy, or overcast conditions with wind speeds at or below Beaufort scale 3, and in areas free from strong magnetic interference.
- Never operate in adverse weather conditions such as rain, snow, frost, fog, thunder, hail, sandstorms, or strong winds.
- Select the screw feeder type appropriate for your granule size to ensure smooth discharge.
- Before operation, remove all spray rods from the drone's arms to prevent damage from flying granules.
- Before operation, check that the screw feeder motor, spread disc motor, and radar level sensor are correctly installed and functioning. Calibrate using the actual granules to be spread. Remove the spread discs before calibration.
- During operation, monitor remaining material. If low, return promptly to refill to ensure optimal performance.
- Keep clear of the screw feeder and spread disc motors during operation to prevent injury.
- Stay away from the drone and RevoCast while operating to avoid personal injury.
- After use, empty the granule container and then power off. Completely rinse the container, screw feeder shell, discs, and radar level sensor with clean water. Air-dry in a cool, shaded place. Never clean while powered on.
- Never leave material in the container after operation. Moisture may cause clumping, which may lead to motor startup failure or inaccurate feeding.
- Never allow granules to remain on the spread discs for long periods to prevent granules from sticking to the vanes, which may reduce spread width.
- When not in use, clean and inspect thoroughly. Ensure it is free of blockages or faults. Fully air-dry before storing in a dry, cool, and safe place.
- During operation, emphasize environmental conservation and use seeds, fertilizer, and other materials responsibly. Collect and dispose of packaging promptly after use. Do not pollute soil, rivers, or drinking water sources.
- Do not modify, retrofit, or assemble this product with non-genuine parts. Doing so may cause malfunction, reduced performance, or damage to the drone and RevoCast. Damage from using non-genuine XAG parts is not covered by warranty and is the sole responsibility of the user.
- Install, operate, and maintain the product strictly in accordance with this User Manual. Any damage, loss, or legal liability resulting from non-compliant use shall be borne solely by the user.
- Do not use non-genuine XAG parts for maintenance or operation. Doing so may significantly compromise safety and shorten product lifespan. Damage arising therefrom is not covered under warranty.
- To protect the interests of users, partners, and XAG, products purchased through unauthorized channels may have no internet access or limited functions. Always purchase through authorized local channels.

Introduction

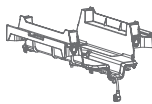
XAG P150 Max RevoCast 5 (hereinafter "RevoCast") is designed for use with the XAG P150 Max Agricultural Drone. It supports a wide range of applications, from sowing seeds and applying fertilizers to dispensing feed pellets for fish and shrimp in aquaculture – delivering intelligent, precise, efficient, and flexible production solutions for every user.

List of Items

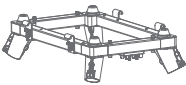
When unboxing, check the package contents against this list. Immediately contact your seller regarding any missing items.



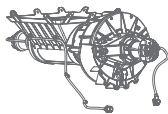
Granule Container
×1



Upper Shell
×1



Frame
×1



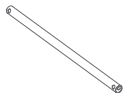
Spread Assembly^[1]
×1



Landing Gear 1
×2



Landing Gear 2
×2



Crossbar
×2



U-Bracket
×2



Male Buckle
×2



T-Clamp
×4



Left Baffle
×1



Right Baffle
×1

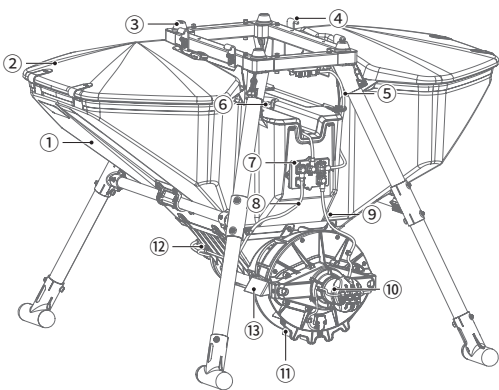


Kit^[2]

[1]: The spread assembly is available in three types: large screw feeder, medium screw feeder, and small screw feeder. Please refer to the actual type purchased.

[2]: Kits come in various types. Refer to the package label and this manual for correct installation.

Main Components



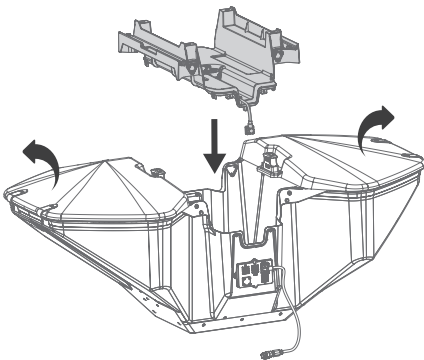
- | | | |
|---------------------|----------------------|---------------------|
| ① Granule Container | ⑥ Radar Level Sensor | ⑩ Spread Disc Motor |
| ② Lid | ⑦ Hub | ⑪ Spread Disc |
| ③ Alignment Boss | ⑧ Screw Feeder | ⑫ Screw Feeder |
| ④ Hook | Motor Cable | Motor |
| ⑤ RevoCast Payload | ⑨ Spread Disc Motor | ⑬ Baffle |
| System Cable | Cable | |

Installation

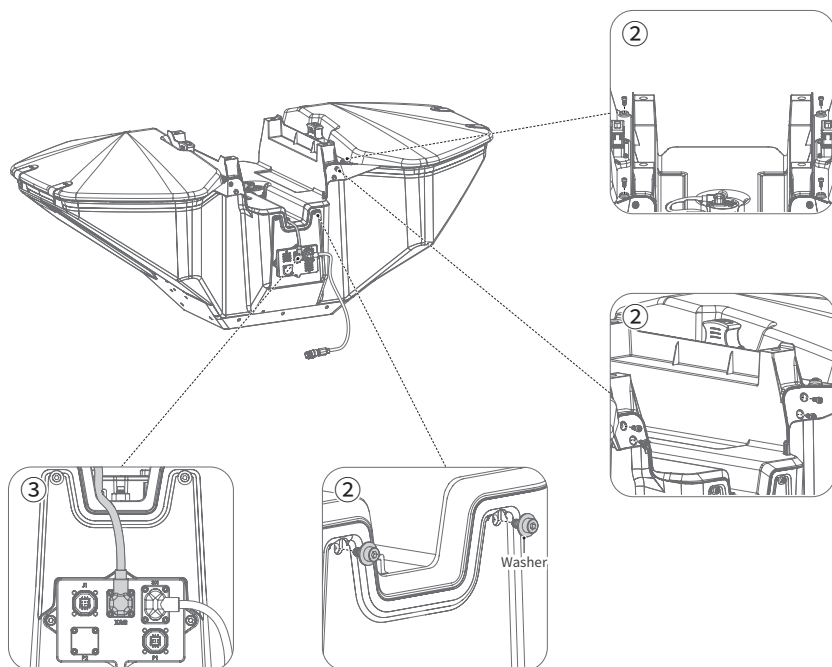
Install Container Assembly

Install Upper Shell

- ① Open the left and right lids, then attach the upper shell to the container.



- ② Loosely secure the upper shell to the container using self-tapping screws (Kit A). Upon necessary adjustment, fully tighten all screws to fix it to the frame (16 screws and 4 washers in total).
- ③ Attach the radar level sensor cable to the hub and tighten with 4 partially threaded screws (Kit F) to complete the installation.

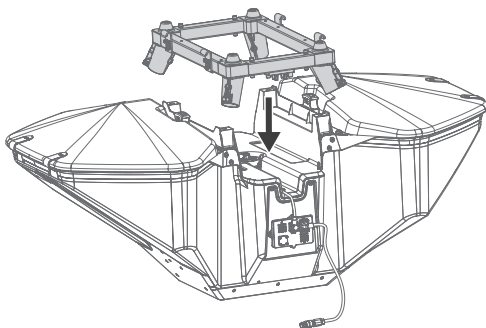


Note

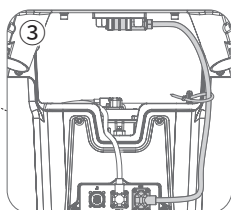
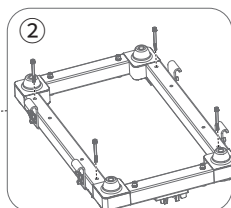
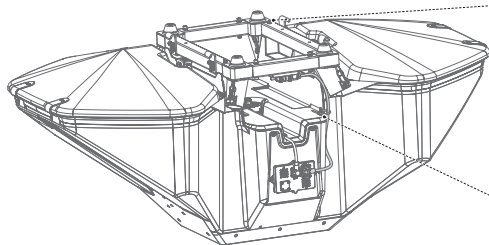
- ⚠ Use washers for the front and rear self-tapping screws (4 total: 2 front, 2 rear).

Install the Frame

- ① Attach the frame to the upper shell (ensure the cable holder on the frame is on the same side as the hub).

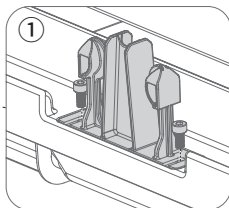
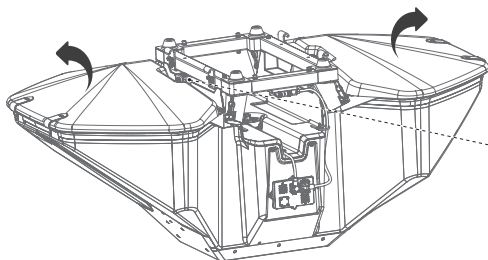


- ② Secure the frame to the upper shell with 4 long set screws (Kit B).
- ③ Fix the RevoCast payload system cable to the cable holder and tie it to the container with a cable tie (Kit F).



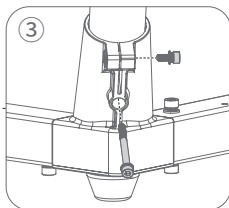
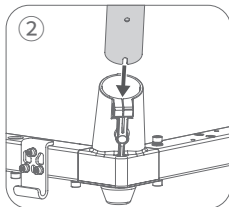
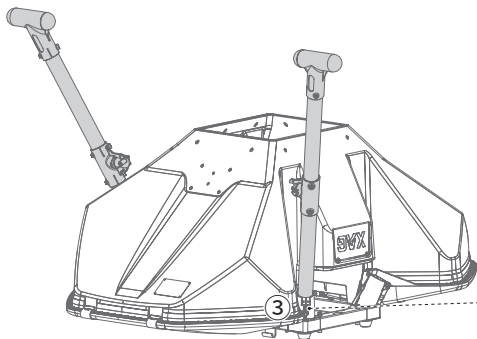
Install Male Buckle

- ① Open the lid and secure the male buckle to the container using 2 set screws (Kit E) (example shows left male buckle).
- ② Repeat for the opposite side.



Install Landing Gears

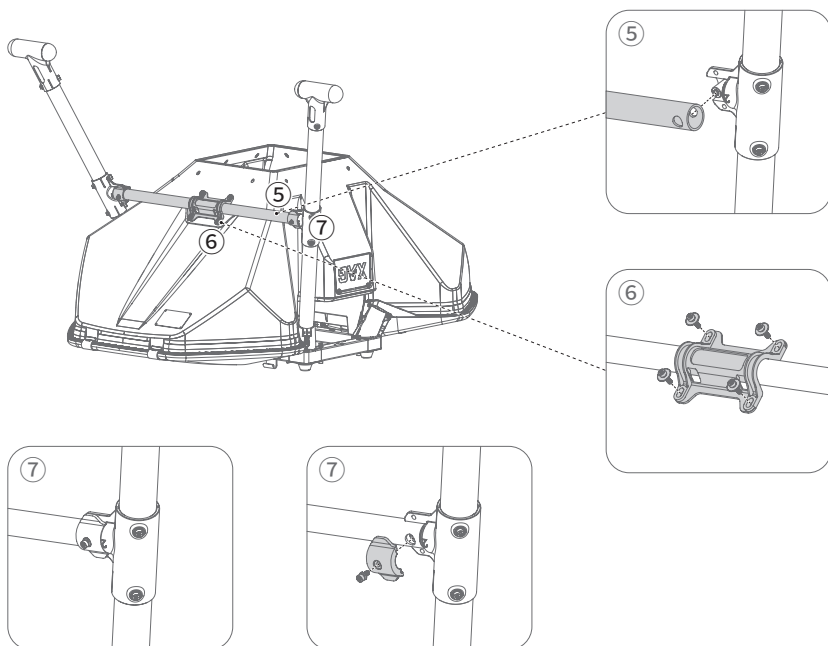
- ① Place the container upside down.
- ② Insert the landing gear into the frame's hole.
- ③ Partially secure with a long set screw (Kit B), then with a short set screw (Kit B). Adjust, then fully tighten to secure the landing gear to the frame.
- ④ Repeat for the other landing gear on the same side.



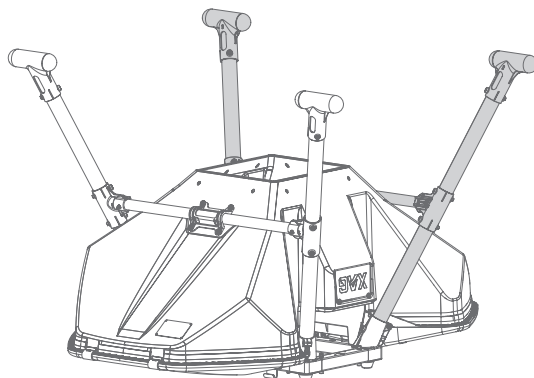
Note

- ⚠ When installing, treat the side with the “XAG” logo (upside down) as the front. Landing gear 2 is at the front-right, and landing gear 1 is at the front-left. Opposite corners share the same number.

- ⑤ Attach and secure the crossbar to the locating pins of T-joints at both landing gears.
- ⑥ Position the U-bracket (Kit C) over the holes on the container and loosely fasten with 4 set screws (Kit C).
- ⑦ Partially secure the 2 T-clamps (Kit C) on each end of the crossbar with 2 set screws (Kit C). Adjust, then tighten all screws to complete the landing gear installation for this side.



- ⑧ Repeat the previous steps for the opposite side.

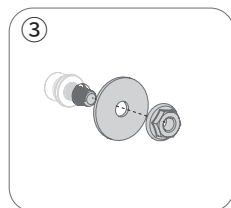
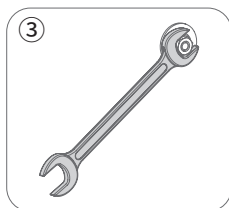
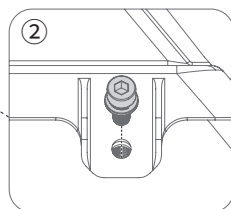
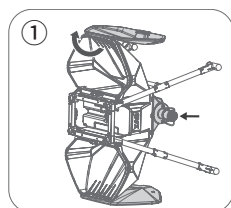
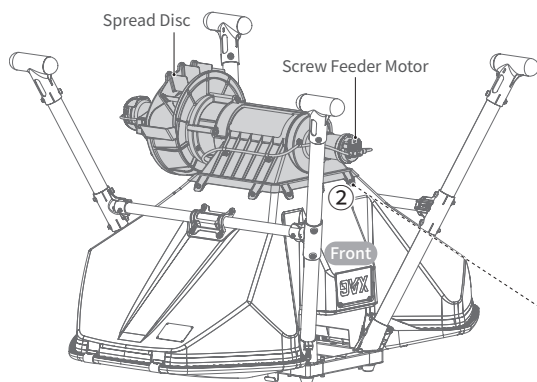


Note

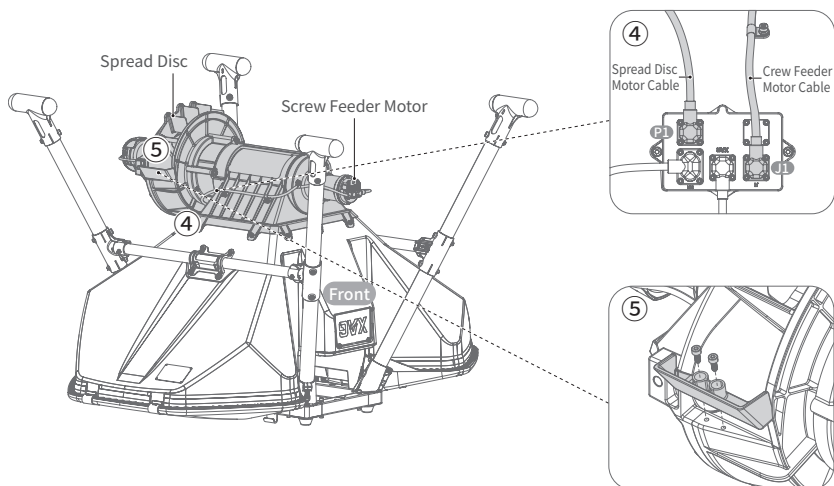
- ⚠ Do not swap landing gear 1 and 2. Incorrect placement may cause installation failure or damage.

Install Spread Assembly

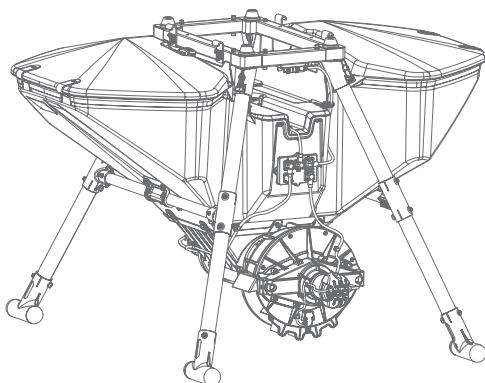
- ① Stand the container on its side, open the lid, and place the spread assembly on the container, with the screw feeder facing forward and the disc facing backward. Then stabilize it with your hand.
- ② Secure the spread assembly onto the container by putting screws (Kit D) through the holes of the assembly and into the exterior holes of the container.
- ③ To secure the assembly onto the container, place the washer and flange nut (Kit D) inside the container. Secure the flange nut with the wrench from the kit, then tighten the screw. Repeat steps ② to ③ to complete the installation of the remaining screws (a total of ten set screws, washers, and flange nuts).



- ④ Connect the spread disc motor cable to the interface P1 of the hub, and the screw feeder motor cable to the interface J1. Secure the screw feeder motor cable onto the container by fixing the cable clamp with one set screw and nut (Kit F). Finally, tighten the eight partially-threaded screws (Kit F) on the two connectors to secure them to the hub.
- ⑤ Place the left and right baffles (Kit J) on both sides of the main outlet of the spread assembly, and secure them with two self-tapping screws (Kit J).



- ⑥ Turn the RevoCast upright to complete the assembly installation.



Drain Liquid

Clean the device before installing the RevoCast as the caustic pesticide could corrode the device, shortening its lifespan. Here are the steps of cleaning:

Detergent: soapy water or laundry powder/water mixture

A. Clean RevoSpray System:

- ① After adding soapy water or laundry powder/water mixture, start spraying with the "XAG One" to remove the residual pesticide.
- ② Add clean water and spray again to remove the residual soapy water or laundry powder/water mixture. Drain off any liquid left in the tube to avoid any damage to other things caused by the liquid during the flight.

B. Clean the Drone:

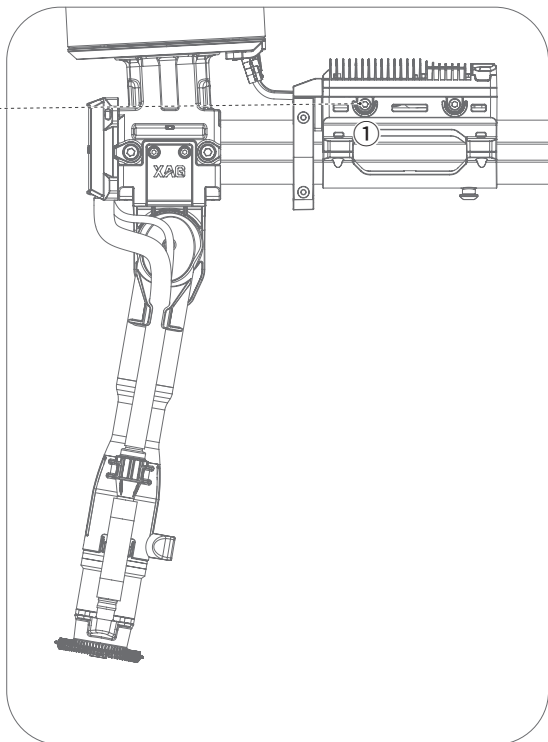
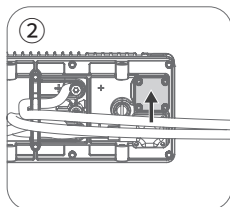
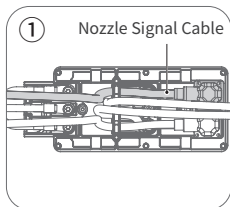
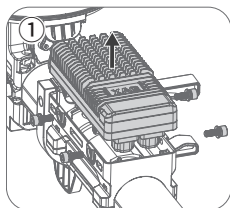
Use a cloth with soapy water or laundry powder/water mixture to wipe the pesticide stains and mud off the surface of the drone. Finally, use a cloth with clean water to thoroughly wipe it clean.

Remove RevoSpray System

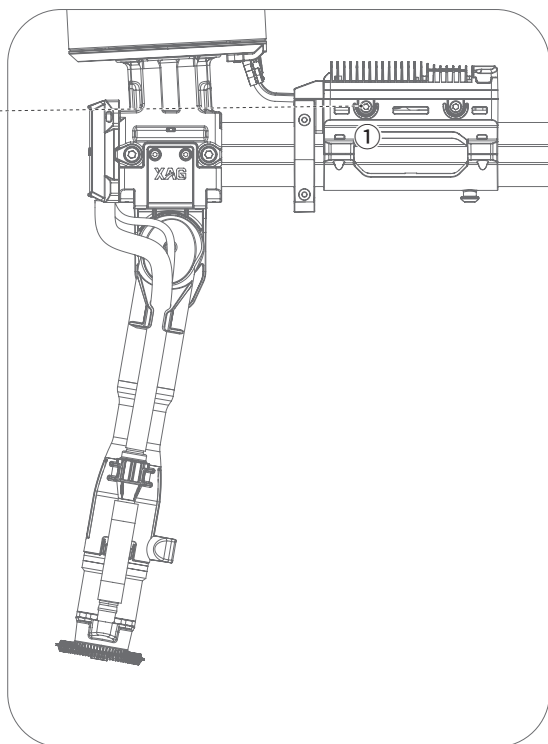
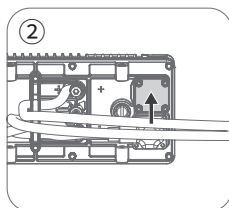
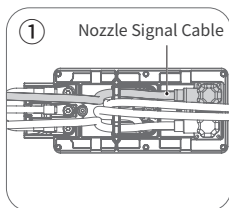
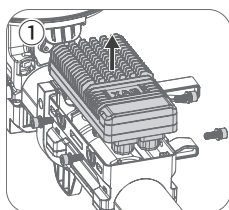
Remove Spray Rod Assembly

To avoid damage to the spray rods during spreading, please remove the spray rods before using RevoCast (take the left one as an example).

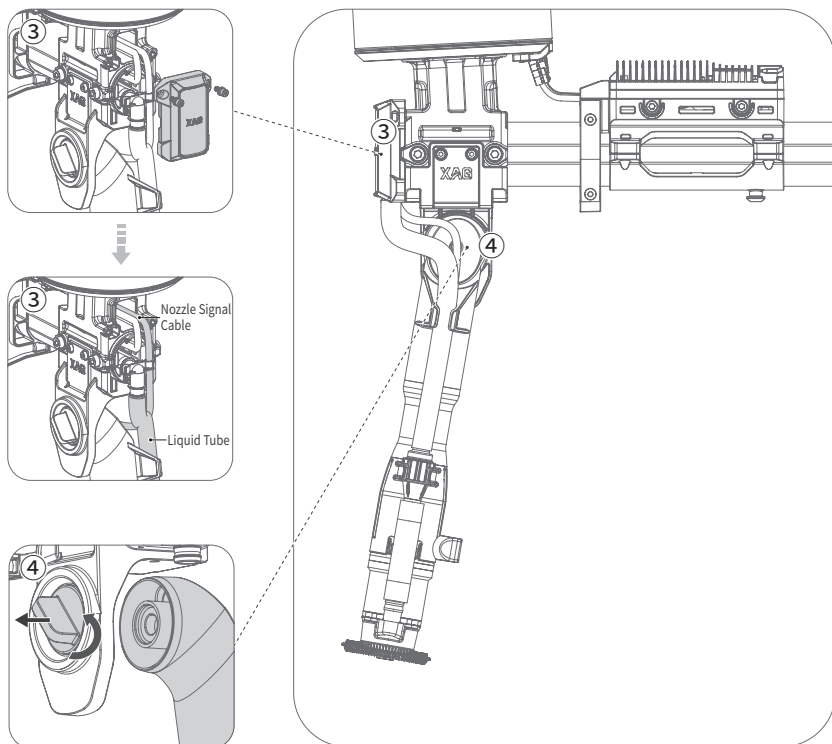
- ① Unscrew the four set screws of the arm ESC, open the ESC cover, and disconnect the nozzle signal cable.



- ② Take out the cover from Kit E, install it on the nozzle signal cable hole, and secure it with four partially-threaded screws (Kit F).

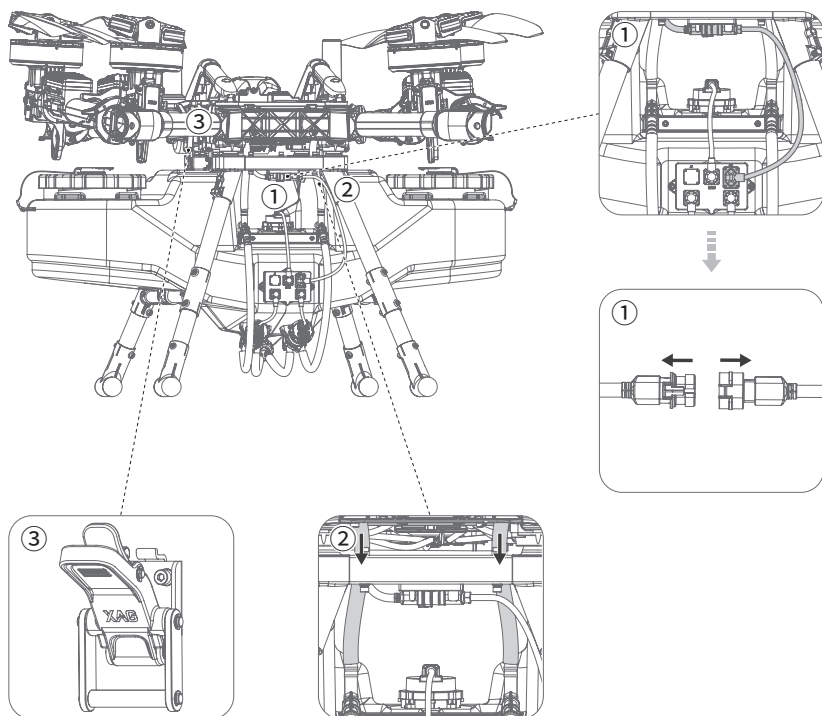


- ③ Unscrew the two set screws of the motor cover, pull out the nozzle signal cable and disconnect the liquid tube, then reinstall the motor cover.
- ④ Turn the spray rod knob counterclockwise until it is completely unlocked, and then remove the spray rod assembly.



Remove RevoSpray

- ① Remove the fuselage payload system cable and the RevoSpray payload system cable from the cable holder and disconnect them.
- ② Disconnect the two liquid tubes connected to RevoSpray from the fuselage.
- ③ Open the two hasps on each side of the fuselage and remove the RevoSpray.

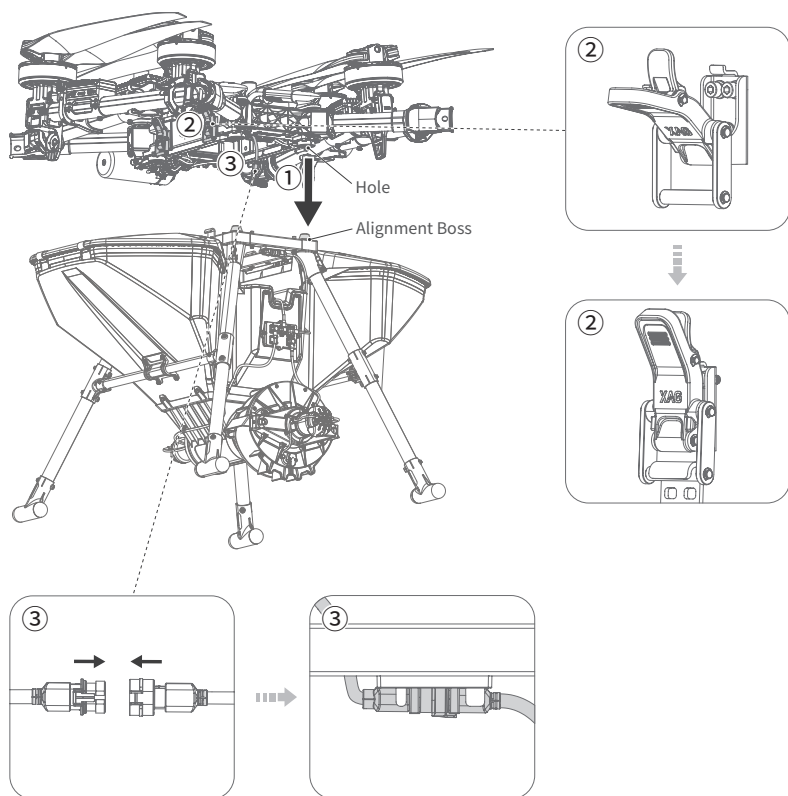


Note

- ⚠ Make sure the liquid tube is free of residual pesticide before removing RevoSpray.
- ⚠ Make sure all the spray rod assemblies have been removed before using RevoCast. Otherwise, users shall bear the responsibilities for the damage to the components.

Install RevoCast

- ① Secure the fuselage onto the RevoCast by aligning the holes of the fuselage with the alignment bosses on the RevoCast.
- ② Open the two hasps on each side of the fuselage and fasten the fuselage to the RevoCast.
- ③ Connect the payload system cable of the fuselage to that of the RevoCast, then affix them to the cable holder.



How to Use

Firmware Update

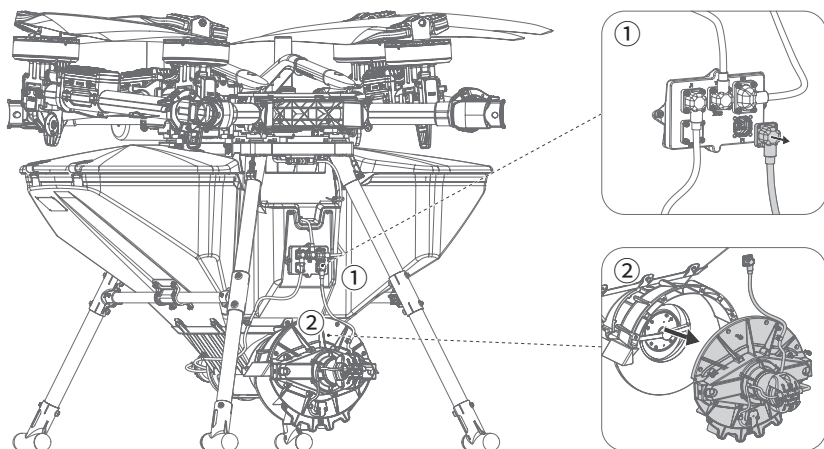
Before using the device, you must check if the firmware version is up to date. If not, make sure to install the latest version.

1. Open XAG One and tap "Me" - "Device". Select the drone or remote controller for the operation and go to Device Details. Tap "⌘" to go to "General". Tap "Firmware Update" to check for updates.
2. When an update is available, tap "Download and Install". After the update is complete, tap "Finish" and return to Device List to see if all devices for the operation have the latest firmware. If not, repeat the above steps until all updates are complete.

Spreading Calibration

Before using RevoCast for the first time or after replacing new granules or screw feeders of different models, spreading calibration is required. Before calibration, please remove the spread disc assembly.

- ① Disconnect the spread disc motor cable from the hub.
- ② Remove the spread disc assembly by unscrewing its four set screws.



1. Open "XAG One" and tap "Me" and then "Device" to select the drone and enter Device Details.
2. Tap "☼" to enter Spreading System. Tap "Granule" and then "⊕" in the upper right corner to create granules. Enter the name of granules to be calibrated, and tap "OK".
3. Go back to "Spreading System" after selecting the granule. Tap "Spreading Calibration", select the screw feeder model and select Spreading Calibration Method - "Regular Calibration", then tap "Next". Add the granules to the granule container until they exceeds 60% of its volume, and tap "Next".
4. Place the drone about 50 cm above the ground. Hang the bag/container on the handheld electronic scale, set the handheld electronic scale to zero, and fix the bag/container under the outlet. Check "Empty container is placed under the outlet" and tap "Start Discharging".
5. After it stops discharging, use the handheld electronic scale to weigh the bag/container and granules. Fill the actual weight in grams into the App and tap "Submit" to complete the calibration.
6. After spreading calibration is completed, install the spread disc assembly and connect the spread disc motor cables.

Manual Spreading Test

Before spreading, please start "Manual Spreading Test" to make sure RevoCast works well.

1. Open "XAG One" and tap "Me" and then "Device" to select the drone and enter Device Details. Tap "🔧" to enter Spreading and select "Manual Spreading Test".
2. Tap "Start" to start manual spreading test.

Note

 During manual spreading test, the screw feeders and spread discs will be rotating rapidly. Please stay away from the drone to avoid accidents.

Spreading Settings

Before spreading, please set spreading parameters in "Spreading Settings".

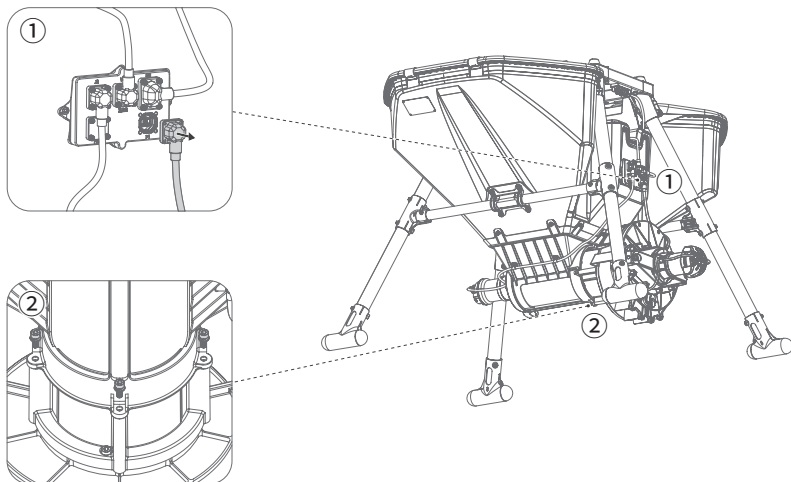
1. Open "XAG One" and tap "Operation" in the menu bar to enter Operation screen.
2. Select the fields for operation on the map. After that tap "Operation Settings" to set spreading parameters as needed.
3. In the Basic Settings, select "Granule", adjust "Spread Amount" and set "Change segment for spreading", and enable/disable the "Feed Spreading mode" in the Advanced Settings.
4. After the spreading settings and route settings are completed, the drone can be started for spreading operation.

Maintenance

Clean RevoCast

To avoid piling up and clogging, please clean the RevoCast after daily operation to ensure the spreading efficiency. Here are the steps of cleaning:

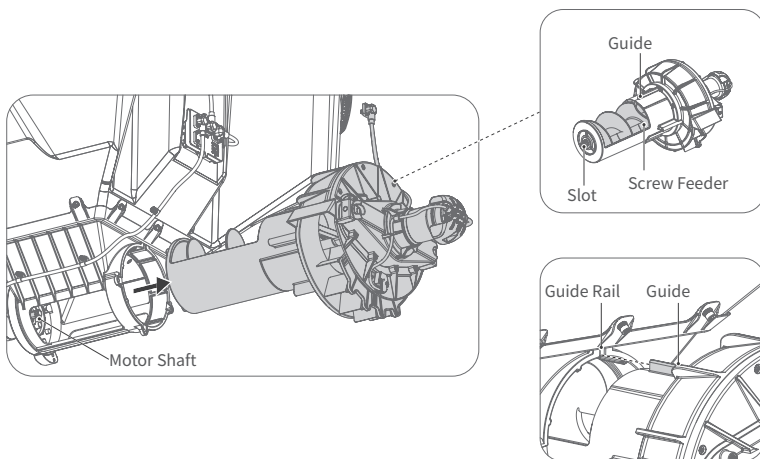
- ① Remove the connector of the spread disc motor cable from the hub.
- ② Unscrew three set screws securing the screw feeder shell.



Note

- ⚠ If the granules in the RevoCast are corrosive, please clean the RevoCast with soapy water or laundry powder solution, and then rinse it with clean water.
- ⚠ Places prone to residual granules: 1. between the screw feeder shell and the screw feeder. 2. within the space that the spread disc rotates.
- ⚠ Apply grease to the gearbox gears and the spring assembly bushing every 50 operating hours to ensure proper lubrication of the gears and bearings.

- ③ Pull out the screw feeder shell assembly and rinse the screw feeder and spread disc assembly with clean water to remove all foreign matters, and then air-dry the screw feeder shell assembly in a cool place.
- ④ Lift the granule container lids on both sides, rinse off the residual granules and air-dry the container in a cool place.
- ⑤ After the screw feeder shell assembly and container are air-dried, reinstall the screw feeder shell assembly and tighten the screws. Start manual spreading test before the next spreading application to ensure that the RevoCast works well.



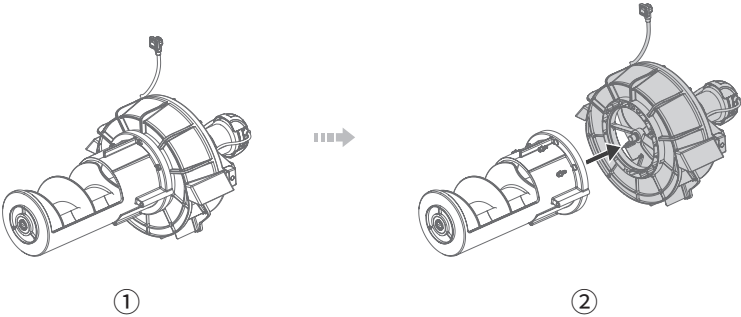
Note

- ⚠ When reinstalling the screw feeder shell assembly, align the guides with the guide rails and insert it into the RevoCast. When inserting, adjust the screw feeder to align the slot under it with the motor shaft. Tighten the set screws, and gently shake the screw feeder shell assembly to ensure that it is installed securely.

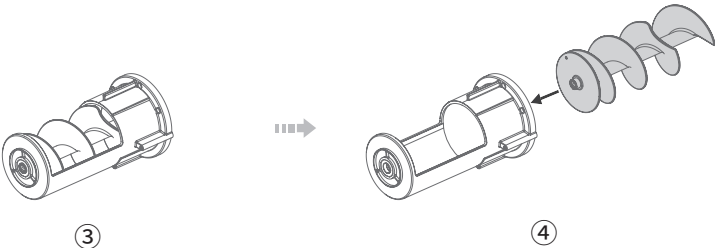
Replace Screw Feeder

The instructions in this User Manual use the large screw feeder as an example.
If the wear depth on one side of the feeder exceeds 2 mm (the original diameter is 120 mm), please replace the screw feeder to ensure that the RevoCast works well.

- ① Refer to "Clean RevoCast" (pages 17-18) to pull out the screw feeder shell assembly.
- ② Unscrew the four screws securing the screw feeder shell and the spread disc assembly to remove the spread disc assembly.



- ③ Replace the screw feeder with a new one, and reinstall the spreading assembly (refer to page 18).
- ④ After replacing the screw feeder, perform spreading calibration and manual spreading test before the next spreading application to ensure the RevoCast works well.



Examples of Granules for Different Sized Screw Feeders

Screw Feeder Size	Granule
L	Fertilizer
M	Rice
S	Rapeseed

Specifications

Model	M4RCP115BH
Dimensions	1119 × 1012 × 743 mm
Weight	14 kg
Capacity of Product	115 L
Max. Load of Granule Container	80 kg
Quantity of Screw Feeder	1
Max. Rotational Speed	17000 rpm
IP Rating	IP65
Operating Ambient Temperature	0° C to 40° C
Storage Ambient Temperature	0° C to 40° C
Effective Spread Width	5-9 m (subject to flight height, granule's weight & shape, dosage, environment, etc.)
Applicable Granule Size	1-10mm (dry and solid granules)
Spread Amount Error	±10% (subject to granule type and moisture)
Compatibility	XAG P150 Max Agricultural Drone

Compliance Information

FCC Compliance Notice

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

Brand name / model number: M4RCP115BH
Suppliers Name(FCC): Pegasus Spray Inc
Suppliers Address (FCC): 2265 116th Ave NE, Suite 110, Bellevue, WA 98004, United States
Suppliers Email Address: arthur@pegasusrobotic.com



⚠ This product can expose you to chemicals including Pb which is know to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

EU Compliance Statement

“Hereby, [Guangzhou Xaircraft Technology CO.,LTD.], declares that this [XAG P150 Max RevoCast 5] is in compliance with the essential requirements and other relevant provisions of 2014/53/EU.
The full text of the EU declaration of conformity is available at the following internet address:
www.xa.com/en/service/downloads”

Brand name / model number: M4RCP115BH
Suppliers Name(EU): NIK ELECTRONICS LTD
Suppliers Address (EU) : Sofia, 11B Brussels Blvd., fl.13
Suppliers phone number and / or internet contact information: 00359899952228

Note

To ensure EMC safety, ferrite rings must be installed and secured on the designated cables as follows:

- △ Install one large clip-on ferrite ring (Kit K) on the RevoCast Payload System Cable.
- △ Install one small clip-on ferrite ring (Kit K) on the screw feeder motor Hall sensor cable, and secure it near the screw feeder motor housing using cable ties (Kit K), ensuring the cables are secured tightly against the motor housing.



KCC Warning Message

이 기기는 업무용 환경에서 사용할 목적으로 적합성 평가를 받은 기기로서 가정용 환경에서 사용하는 경우 전파 간섭의 우려가 있습니다 .

Disclaimer

1. Please read this Disclaimer carefully before using this product, as it has much to do with both operational safety and your legitimate rights and interests. You shall be deemed to have read, known, understood, agreed to, and accepted all the terms and conditions as well as information stated herein upon the use of this product.
2. Not being a toy and with certain safety risks, this product is not suitable for those who are under 16 years old, those who have limited or no capacity for civil conduct, or those with mobility impairments as stipulated by law.
3. This product is the RevoCast system designed specifically for the XAG P150 Max Agricultural Drone and is intended solely for use in farming, forestry, animal husbandry, and fishery applications such as crop protection, seeding, fertilization, and aquaculture feed distribution. Before using this product, please carefully read the User Manual to understand your legal interests, rights, responsibilities, and relevant safety instructions. Failure to do so may result in property loss, accidents, or personal injury.
4. This product is intended for use with XAG agricultural drones. You must obtain the appropriate operator certification required by law for operating conventional agricultural unmanned aerial vehicles. Extra caution must be taken when operating this product in areas where children, crowds, or animals are present.
5. You undertake to use the product within the bounds of the law for legitimate purposes only and agree to the terms and conditions stated herein as well as potential related policies and norms formulated by XAG. You understand and accept that flight records and data created during use will be uploaded and saved to XAG's server. XAG shall resume no responsibility for the failure to analyze such flight records and data caused by the unsuccessful saving for any reason attributable to the user.
6. To the maximum extent permitted by law, under no circumstances shall XAG offer an implicit or explicit guarantee for this product, including but not limited to implicit guarantees pertaining to vendibility, fitness for a particular use, or non-infringement.
7. Please install, use, transport, and maintain the product under the instructions in this User Manual. Do NOT modify or disassemble this product on your own as any malfunction or damage arising therefrom or resulting from your improper use will not be covered by the warranty, and you shall solely assume the liability arising therefrom, both financially and legally.
8. To the maximum extent permitted by law, XAG shall not be liable for any loss caused by your use of this product outside the instructions in this User Manual. Furthermore, XAG shall not be liable for any indirect, consequential, punitive, accidental, special or exemplary damage, including any loss incurred as a result of your purchase, use, or inability to use the product, even if you have been advised of the possibility of such loss.
9. You understand that in the use of any products, accidents may occur as a result of a single or combined factors, including but not limited to improper operation, surroundings and communication networks. You understand that the aforesaid accidents are reasonable and acceptable in the use of the product, and that XAG shall not be held accountable for such accidents.
10. On any account, purchasers or users shall comply with the laws and regulations of the country and region where the product is used. XAG shall assume no liability arising from the violation of the aforementioned laws and regulations by the purchaser or user.

11. Please note that the use of this product on agricultural drones might involve the laws and regulations in connection with the collection, storage as well as processing of the geographic information and data of farmland. Before using this product, be sure to comply with local laws and regulations related to the collection, storage, or processing of such geographic information and data. Make sure that you use this product in accordance with the law. Any financial and legal liability arising from user's violations of the laws and regulations shall be borne solely by the user.
12. As exclusion clauses may be prohibited by certain laws and regulations, your rights may vary. However, this does not imply that certain or all terms contained in this Disclaimer are necessarily invalid. For any reason that partial terms stated herein are deemed void, other terms shall remain in effect.
13. To the extent permitted by law, XAG reserves the right for final explanation and revision of the terms and conditions stated hereinabove. XAG also has the right to update, modify or terminate these terms and conditions via its official website, User Manual, online apps, etc., without prior notice.

Warning

Before using this product, user is required to read through the User Manual and hold the appropriate operator certification required for operating conventional agricultural unmanned aerial vehicles. Operating the agricultural drone or its peripherals without the required certification, or improper operation, may cause injury to the user or others, or cause damage to the product and property loss. Any financial or legal liability arising from such actions shall be borne by the user. Safety awareness is of great importance during operation. Please install, maintain, and use the product in strict accordance with the User Manual and applicable laws.



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