

## XAG P100/P100 Pro Motor & ESC Mandatory Maintenance Instructions

While the XAG P100/P100 Pro aircraft is operating, it would experience vibrations that might cause the screws securing the Motor connector and ESC to loosen, potentially causing a disconnection of power. The wear and tear of the isolators could have prompted the melting due to heat during the operation. Such an event could trigger an electrical surge and excessive heat production, possibly resulting in the Motor/ESC failure.

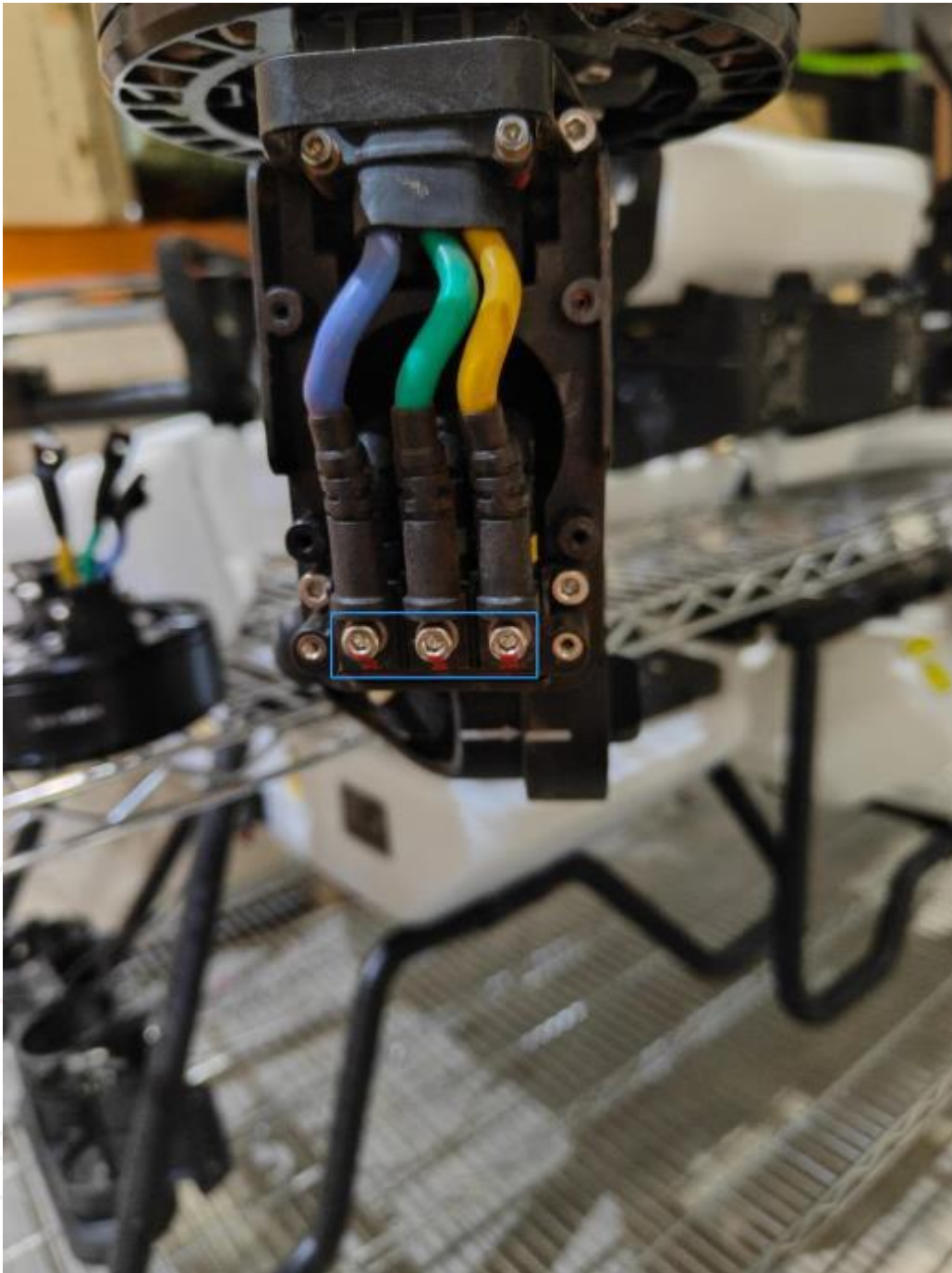
1. Loosen the four screws securing the red bumper and then detach the bumper.



2. Use a screwdriver to dislodge the connector shield.



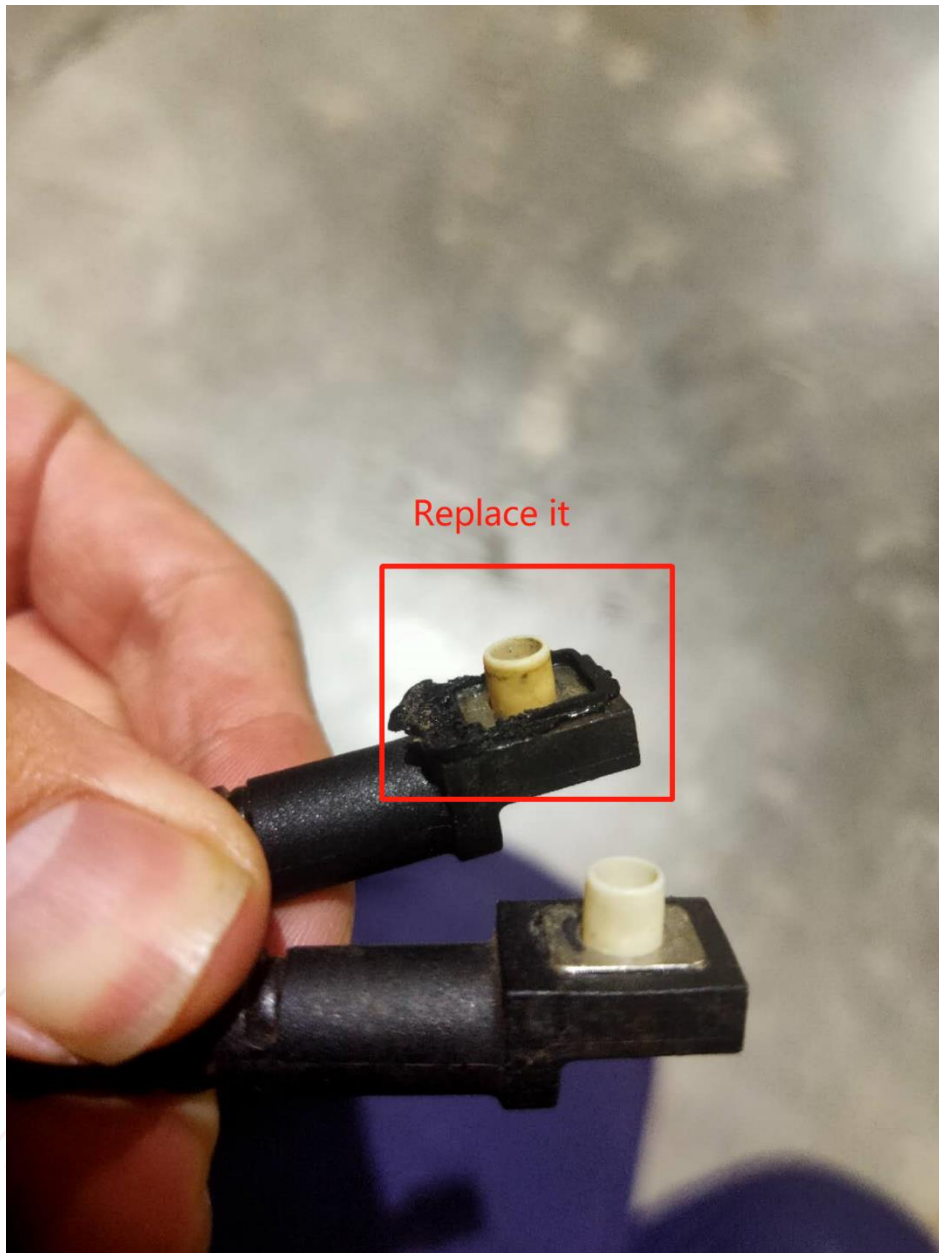
3. Use a screwdriver to undo the 3 screws securing the connectors and inspect the condition of the isolators and connectors.



4. Should you find an isolator showing heat-related colour changes, replace it immediately. Also, ensure that each connector is paired with its appropriate isolator.

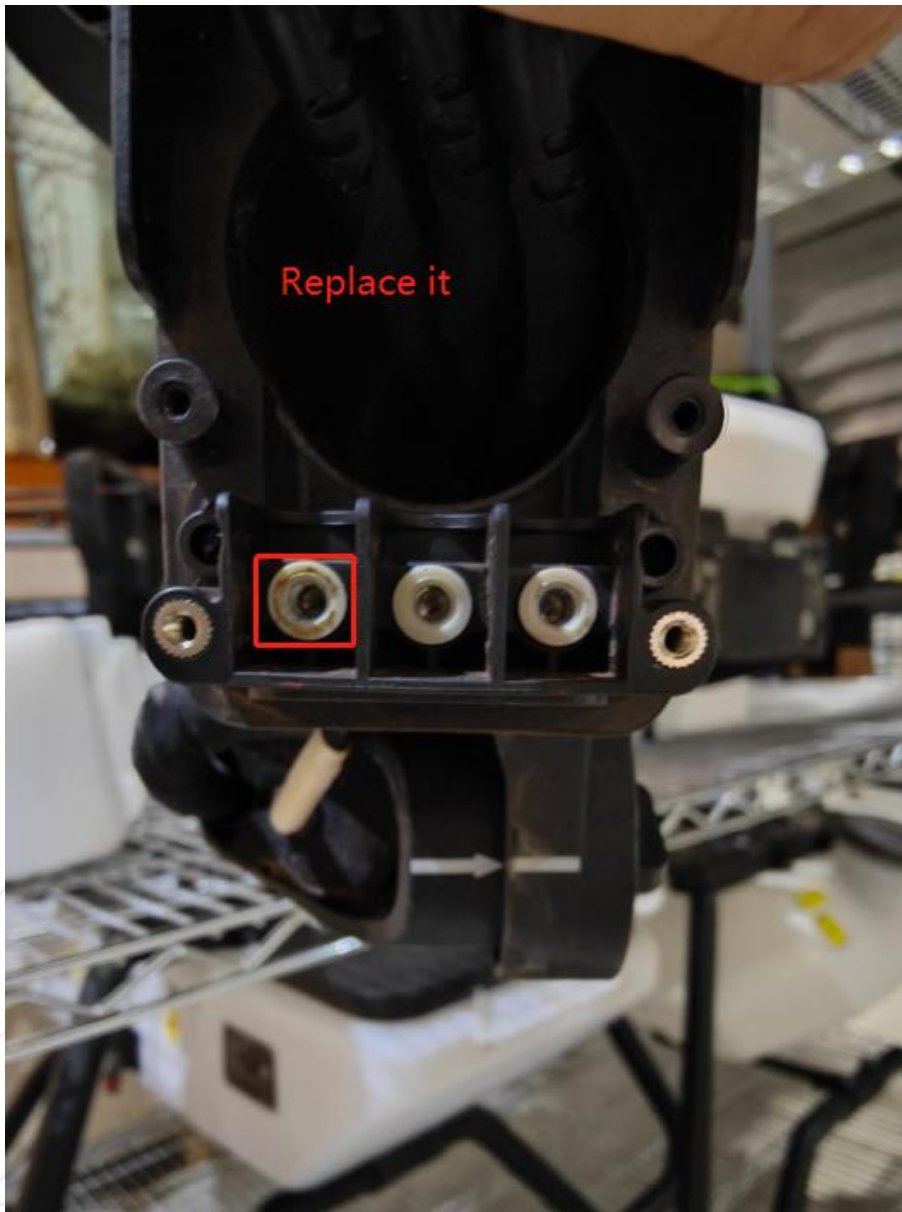


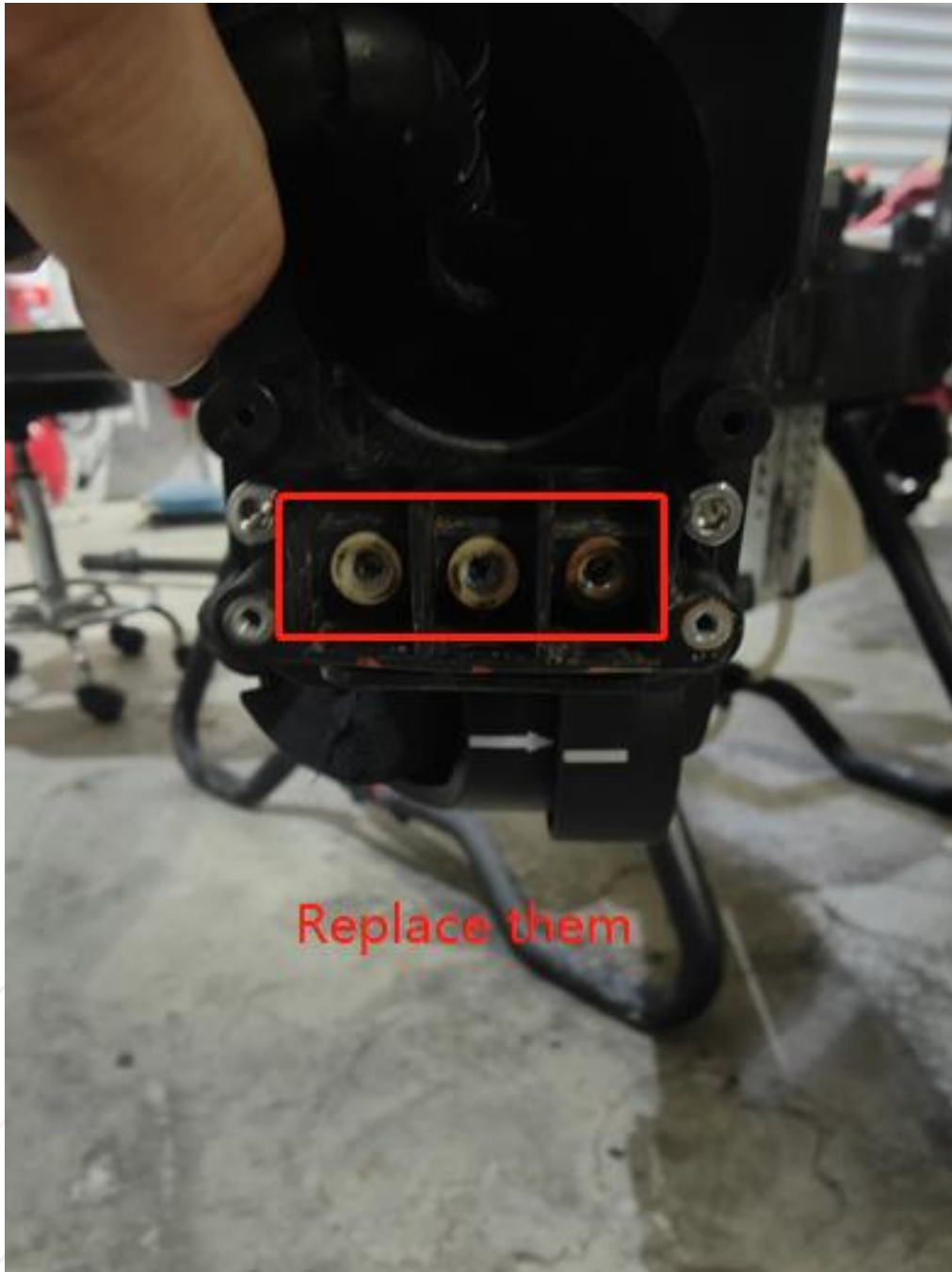
Example of heat-induced discolouration



5. After the inspection and cleaning of the ESC isolators, substitute any that are worn or display signs of heat-related discolouration.

Example of heat-induced discolouration:





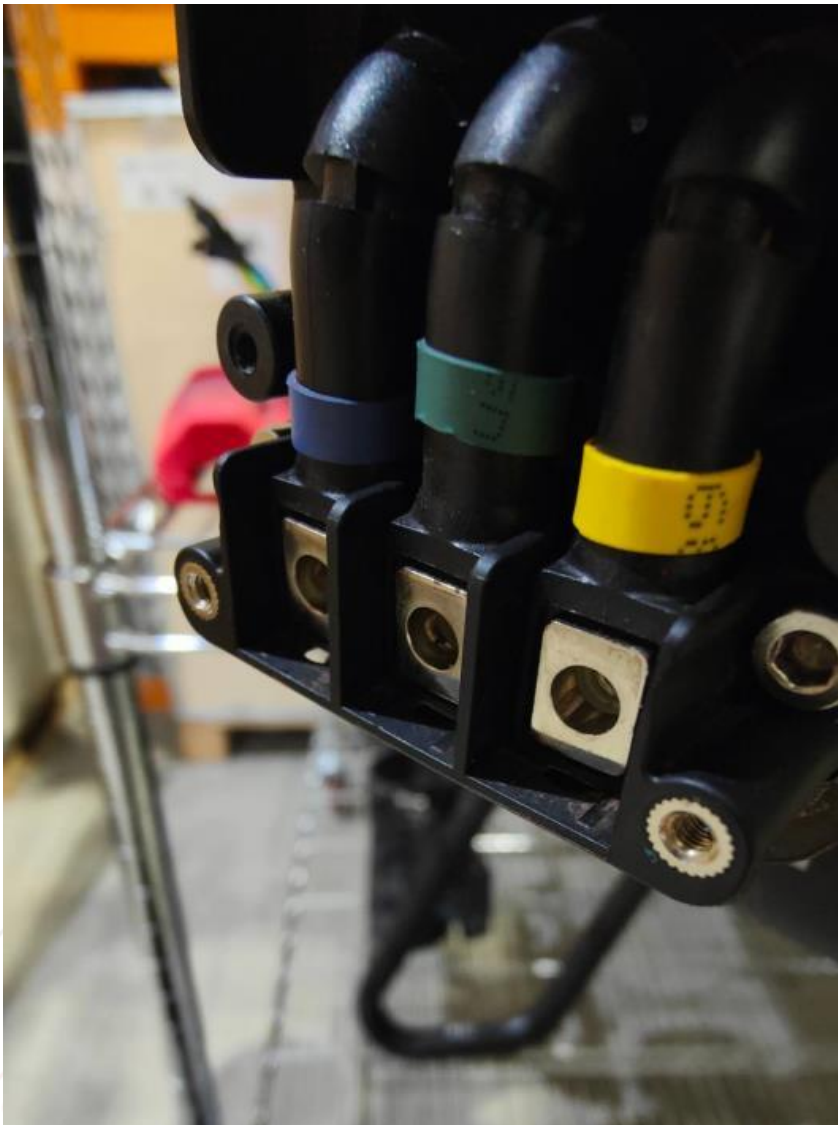
6. Clean any residues left on the Motor and ESC connectors and apply contact cleaner when necessary.







7. When reassembling, ensure the ESC connectors are accurately aligned with the isolator bracket.



8. Finalize the installation by using a screwdriver to securely tighten the connection. The use of Loctite 243 on the screw is advised.

Isolators are available in the shop via the link below:

P100 Motor Connector Isolator (Thin) (02-001-07627) -

<https://www.xagaustralia.com.au/product-page/p100-motor-connector-isolator-thin>

P100 Motor Connector Isolator (Thick) (02-001-07628) -

<https://www.xagaustralia.com.au/product-page/p100-motor-connector-isolator-thick>

P100 Pro Motor Connector Isolator (Thin) (02-002-1168A) - To be released

P100 Pro Motor Connector Bracket (Thick Isolator included) (02-001-09012) - To be released

#### **IMPORTANT:**

- Adhering to this maintenance advice from the manufacturer is crucial.
- The isolators do not have a specified lifespan since they are considered consumable items. It's essential to regularly inspect them based on how frequently the aircraft is used to maintain its airworthiness.
- The steps outlined here serve as periodic maintenance instructions, particularly important during sustained operations.
- A daily inspection alongside other pre-flight checks is advised when the drone is in frequent use.
- Non-compliance with these official guidelines will lead to the invalidation of both the Manufacturer's Warranty and the Consumer Guarantee.