WS5100 AGRICULTURAL UAS

Post-Repair Verification Report

Complete after repairs to record faults found and confirm the aircraft is safe to return to service.

Technician: _____

Date: _____

1. Faults Found & Repairs Made

Fault / Symptom	Root Cause	Action Taken / Parts Replaced	Verified

Note: Log every fault identified during diagnostics, its root cause, and the repair or part replacement made. Tick "Verified" once the fix has been confirmed to resolve the fault.

2. Remote Controller Binding Verification

☐ Remote controller powered on first, then the UAS, with both within 5 m

☐ Landing-gear and controller antennas confirmed undamaged and properly seated

☐ Binding mode entered; connection tone/LED confirmed

☐ Control inputs (throttle, roll, pitch, yaw) respond correctly on the GCS/radio calibration screen

Note: If binding fails, power-cycle both the controller and the UAS and repeat before escalating to receiver replacement.

3. Motor Test (ArduPilot / Mission Planner)

☐ All propellers removed before running the motor test

☐ UAS connected to Mission Planner and telemetry/USB link confirmed

☐ Battery connected and voltage confirmed normal; aircraft restrained/on a secure stand

☐ Opened Setup → Mandatory Hardware → Motor Test

☐ Each motor tested individually (A, B, C, D and any additional rotors) at low test throttle

☐ Motor order and rotation direction match the aircraft's configured frame layout

☐ No unusual noise, vibration, or hesitation from any motor during the test

☐ Propellers re-fitted correctly (correct rotation/pitch per position) after testing is complete

Note: Never run the motor test with propellers fitted. If any motor tests out of order, do not fly — correct the motor/ESC wiring or output mapping before proceeding.

4. Final Sign-Off

Result (Return to Service / Grounded — Further Work Required): _____

Technician Signature: _____

Date Returned to Service: _____