

LOG BOOK - LEADING STATEMENT BY THE BUILDER

HELICOPTER - HELICYCLE VH-RTD

Date 20th March 2015

CASA Registered Owner/Operator – Richard Douglas (effective 14th March 2014)

Place of Assembly – 9 Kaneruka Place Baulkham Hills NSW

1. The helicopter is a Helicycle built from a kit supplied by Eagle R&D of Idaho, USA. The kit was supplied in four shipments/packages (1 airframe, 2 components and 1 engine) over a period of four years (2006-2009). The kit serial # is 4-33.
2. This aircraft has been built in accordance with the recommended manufacturer's construction procedures using certified aircraft hardware for all flight critical components and good aeronautical assembly techniques. Non flight critical and cosmetic assemblies utilise high quality hardware purchased for reputable local suppliers, permitted under CASA exemption EX51/15 current at the time of writing this statement. (expires 31/03/17)
3. Assembly was undertaken over a period of 5 years and 10 months (2009-2014) in a purpose built fully sealed building with a high degree of cleanliness, lighting and air-conditioning. Refer build log photos.
4. All major components were prepared/assembled prior to final fitting onto the airframe. Where components had to be transported for external finishing (eg painting, misc welding) all works were transported and supervised by the builder.
5. A number of modifications have been made during construction. The modifications enhance the build quality and do not alter or affect the structural integrity of the airframe and primary controls. The modifications are listed and described in the document - *"Modifications to standard Helicycle kit VH-RTD"*.
The above document should be read in conjunction with the build log and note this will affect the ongoing maintenance regime of the aircraft. Inspections required for the modified items are listed in the *"VH-RTD Maintenance Schedule"*.
6. The fuel delivery system includes a gascolator, inline 30um filter, isolating valve and delivery boost pump. The system has been thoroughly tested to meet or exceed the listed flowrates in the Solar T62-32 turbine maintenance manual. A flow rate computer has been installed and calibrated for repeatability to within 1 litre of volume used and remaining. In addition, a low fuel warning sensor will activate when fuel remaining. at or below approx 7 litres.
7. The electrical system has been extensively redesigned from original providing a greater degree of functionality, additional instrumentation and avionics. A complete system diagram forms part of the maintenance manual.
8. The fuselage and tail empennage is painted in Concept Paints (ISO 2K free) 2 pack epoxy primers and top coat. Colour is Harvester Orange (with double black content to darken).
9. A four point harness is fitted. The harness was manufactured by Aviation Belts & Harnesses Sth Toowoomba. ph # (07 46392444). No release note provided.
10. The aircraft was completed in late 2014 and made ready for factory test pilot inspection in early 2015.
11. The aircraft has been issued with an exemption to operate without a Noise Certificate. Refer Air Services permit dated 18th March 2014. (Document # not provided)
12. The aircraft has been issued with the following certification in accordance with CAR42ZE:-
CAO100.5, AD/RAD/47 A2 by Pacific Avionics CoFA # C548308 Issue 03
13. The aircraft is fitted with a portable 406MHz EPIRB (ELT) model MT410G affixed to the rear cabin wall (starboard side). Registration #3EF68E7B3F81FE0 dated 15.10.2014. Beacon Serial #72950 HEX ID #3EF68E7B3F81EO.
14. The aircraft Certificate of Registration was issued by CASA dated 14.03.2014
15. The Certificate of Appointment of Registered Owner was issued by CASA dated 14.03.2014
16. An aircraft data plate, with the relevant details, is fitted on the upper starboard side rear cabin wall.
17. A fireproof nameplate displaying the aircraft registration # "VH-RTD" is secured to the lower instrument panel face.
18. An aircraft Log Book and Maintenance Release has been issued in compliance with CAO100.5 by the owner/builder; permitted in accordance with CASA Instrument 33/13 current at the time of writing this statement. (expires 28th Feb 2016)
19. The approved maintenance schedule is derived from the generic maintenance schedule issued by the kit supplier Eagle R&D. The original document forms the basis of the approved maintenance schedule developed for this aircraft. The latter includes references to the standard items as listed in the original generic document and all modifications requiring ongoing maintenance extracted from the document *"Modifications to standard Helicycle kit VH-RTD"*. Together, they form the approved maintenance schedule as required by CASA 41(2) with reference to CAAP 42B-1(1). The Aircraft Log Book refers to the approved maintenance schedule as the *"VH-RTD Maintenance Schedule"*.
20. Approved fuels for the aircraft are:- Jet A1, JP8 and Kerosene.
21. Approved lubricants are:- Aeroshell Turbine Oil 500 (Engine) and Castrol Syntrax Universal Plus* 75W-90 (Main Xmsn) (* available Australian equivalent)