

SERVICE BULLETIN



Propulsion

Jabiru Aircraft Pty Ltd
ACN 010 910 077

Title: Piston Replacement
Identifier: JSB 051
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PO Box 5792
Bundaberg Airport
Kensington 4670
Queensland
Australia

T: +61 7 4155 1778
E: info@jabiru.net.au
W: jabiru.aero

Requirements and Deadline

This Service Bulletin provides actions which are mandatory and must be completed at or prior to 200 hrs total time in service.

Purpose

This Service Bulletin has been released to address issues relating to pistons in early Gen 4 engines supplied between April 2017 and August 2019.

Applicability

Make	Jabiru	Jabiru
Model	2200	3300
Serial Number(s)	22#3811 to 22#3877 22B337, 22B340, 22B341, 22B346, 22B349 to 22B371 22MP-519-38233, 22MP-519-38234	33#2768 to 33#2897 33L142 to 33L146

Where “#” is listed in the serial number, applicability extends to any letter.

Superseded Notices

This notice does not supersede any other document.



1. BACKGROUND

- 1.1. Pistons (P/N 4A738B0D & 4A738C0D) installed on early GEN 4 engines have been found to be susceptible to failure. Use of the incorrect oil and/or incorrect installation orientation of pistons were found to be contributing factors in some instances.
- 1.2. Engines manufactured from September 2019 have an alternate piston installed (P/N 4A900B0D & 4A900C0D). These pistons have demonstrated durability in service.
- 1.3. Jabiru has previously contacted registered owners and provided replacement parts for the following engine serial numbers.

Where “#” is listed in the serial number, applicability extends to any letter.

Model	2200	3300
Serial Number(s)	22#3811, 22#3815, 22#3816, 22#3817, 22#3818, 22#3819, 22#3820, 22#3821, 22#3822, 22#3825, 22#3826, 22#3827, 22#3828, 22#3829, 22#3830, 22#3831, 22#3832, 22#3836, 22#3837, 22#3838, 22#3840, 22#3841, 22#3842, 22#3843, 22#3844, 22#3847, 22#3850, 22#3851, 22#3853, 22#3856, 22#3857, 22#3860, 22#3864, 22#3865, 22#3866, 22#3867, 22#3870, 22#3871, 22#3872, 22#3873, 22#3874, 22#3875, 22#3876, 22B337, 22B340, 22B346, 22B349, 22B351, 22B352, 22B353, 22B355, 22B357, 22B359, 22B360, 22B362, 22B364, 22B365, 22B366, 22B367, 22B368, 22B369, 22B370, 22B371	33#2768, 33#2770, 33#2771, 33#2772, 33#2774, 33#2776, 33#2781, 33#2782, 33#2783, 33#2784, 33#2785, 33#2787, 33#2788, 33#2789, 33#2791, 33#2792, 33#2795, 33#2796, 33#2797, 33#2798, 33#2800, 33#2802, 33#2803, 33#2804, 33#2806, 33#2807, 33#2808, 33#2812, 33#2815, 33#2816, 33#2817, 33#2818, 33#2820, 33#2821, 33#2822, 33#2823, 33#2824, 33#2825, 33#2826, 33#2827, 33#2829, 33#2830, 33#2831, 33#2832, 33#2833, 33#2835, 33#2836, 33#2837, 33#2838, 33#2841, 33#2842, 33#2844, 33#2846, 33#2847, 33#2849, 33#2850, 33#2851, 33#2852, 33#2854, 33#2855, 33#2856, 33#2858, 33#2860, 33#2861, 33#2862, 33#2863, 33#2864, 33#2865, 33#2867, 33#2868, 33#2869, 33#2870, 33#2871, 33#2873, 33#2876, 33#2883, 33#2885, 33#2887, 33#2895, 33#2896, 33L142, 33L143, 33L144, 33L145



2. INSTRUCTIONS

Detect

- 2.1. Check the engine serial numbers listed in the applicability table against the serial number of your engine. For listed engine serial numbers, the following actions are considered necessary to prevent an unsafe condition from developing in the in-service fleet.
- 2.2. For engine serial numbers listed in Paragraph 1.3, evidence of piston replacement in the engine logbook is an acceptable means of compliance to this Service Bulletin.

Rectify

- 2.3. Disassemble to gain access to each cylinder subassembly per JEM0004.
- 2.4. Remove and discard the pistons (P/N 4A738B0D & 4A738C0D) per JEM0004.
- 2.5. Install new pistons (P/N 4A900B0D & 4A900C0D) supplied by Jabiru per Section 4 of JEM0004 at latest issue.
- 2.6. Put the engine back to serviceable condition, including re-assembly of any parts removed in Step 2.3. The general overhaul procedures of Section 3 of JEM0004 must be followed.
- 2.7. Perform post-assembly inspections and tests per Section 5 of JEM0004 at latest issue.

Document

- 2.8. Record incorporation of JSB051-1 in the relevant aircraft and/or engine logbook following completion of the rectification steps of this Service Notice.
- 2.9. For engines that comply per Paragraph 2.2, record compliance to JSB051-1 in the relevant aircraft and/or engine logbook.

3. CONTINUING AIRWORTHINESS

- 3.1. There is no change to the Weight and Balance of the aircraft following incorporation of this Service Notice.
- 3.2. Completion of the instructions required by Section 2 are considered terminating action to this Service Bulletin.

SERVICE BULLETIN

JSB 051-1 Piston Replacement



Notification

This document has been provided to all owners of applicable engines who are registered with Jabiru. If you are no longer in possession of this aircraft, please forward this information to the new owner and immediately notify Jabiru at info@jabiru.net.au or via the members section of the website at jabiru.aero.

Implementation

This document has been prepared in accordance with ASTM standard F3198 – Light Sport Aircraft Manufacturer’s Continued Operational Safety (COS) Program.

Jabiru strongly recommends the implementation of this notice, in the interests of safety, regardless of the relevant products certification basis or the aviation authority under which the product is operated.

For operations in Australia, Civil Aviation Safety Regulations 1998, Part 91.900 requires pilots of Light Sport Aircraft to comply with any safety direction or requirement issued by the aircraft’s manufacturer. Similar requirements exist for all National Aviation Authorities (NAA) that recognise the Light Sport Aircraft category.

For Type Certificated products, this notice must be complied with if it has been issued as an Airworthiness Directive by the relevant authority.

For products operating under an Experimental Certificate (or similar) the owner of the product is responsible for the design and continued airworthiness of the product.