

SERVICE LETTER

AA-SL-71-001

Engine Mount Frame Inspection

1. Planning Information

1.1 EFFECTIVELY

R2000 Series aircraft serial numbers 160A-06001 to 160A06005 inclusive, 160Ai-07007, 160A-07008 to 160A-07014 inclusive, 160Ai-0008, 160A-0015 to 160A-0018 inclusive and 120T-0001 to 120T-0002 inclusive.

1.2 REASON

One case has been reported of a cracked engine mount frame.

1.3 RECOMMENDED ACTION

During 100 hourly scheduled inspections, carry out a thorough visual or dye-penetrant inspection of the engine mount frame tubes near the welds. In the reported case a crack was found in the tube nearest to the oil filler neck, upper end.

1.7 WEIGHT AND BALANCE

N/A

1.8 REFERENCES

Alpha Aviation HR200 and R2000 Service Manual, as applicable.

1.9 OTHER PUBLICATIONS AFFECTED

N/A

2. Material Information

2.1 MATERIALS IDENTIFICATION

<u>Part Number</u>	<u>Description</u>	<u>Quantity</u>
-	-	-

2.2 CONSUMABLES

N/A

2.3 OTHER PUBLICATIONS AFFECTED

N/A

2.4 SPECIAL TOOLING

NA



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3. Accomplishment Instructions

Remove engine cowls in accordance with maintenance manual. Use bright lighting and a mirror to carry out a close visual inspection of the engine mount frame. After an initial inspection, wipe the frame clean to remove any dirt build-up and re-inspect weld areas closely. Use of dye penetrant to aid inspection of suspect areas is recommended.

Please provide feedback of any defects found using Design Feedback Form DES 22. (Copy attached for convenience).

Contact Information:



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DESIGN FEEDBACK FORM

Occurrence		Damage		Recommended Improvement	
Accident		Item Failure		Design	
Incident		Corrosion		Operational	
Defect*		Fatigue Cracks		Maintenance	
Potential Hazard		Excessive Wear			

Occurrences resulting in, or having the potential to result in, a catastrophic or major hazard should be brought to the attention of Alpha Aviation as soon as possible

CAR Part 12.105 requires defective products to be retained for future analysis

Aircraft Make & Model		S/N		Reg.	
Affected Parts, (Part No.s and Titles)					

Details (attach sheets as required)

Name of originator:	Contact details:
Organisation:	Date:

Alpha Aviation Use ONLY

<u>Design Action</u> (attach sheets as required)	<u>Reference No.</u>

DESIGN FEEDBACK FORM

1. Alpha Aviation is responsible for the continued airworthiness of their product designs. The Design Feedback Form (DFF) is provided to standardise the feedback from aircraft operators and maintenance organisations.
2. The preparer of the DFF may tick one or more boxes to indicate the nature of the DFF provided.
3. Details of an occurrence should, where applicable, include:
 - a. Nature of occurrence
 - b. Time, date, location
 - c. Phase of aircraft operation
4. Details of an damage should, where applicable, include:
 - a. Nature of occurrence
 - b. Time, date, location
 - c. Phase of aircraft operation
 - d. Description, diagrams, photos
 - e. Location on aircraft
 - f. Reference to Alpha Aviation technical manuals
 - g. Dimensions and measurements
 - h. Component cycle time
5. Details of an improvement should, where applicable, include:
 - a. Description of improvement
 - b. Diagrams
 - c. Reference to Alpha Aviation technical manuals
 - d. Likely benefits

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