

SERVICE BULLETIN

AA-SB-71-005

Seal – Engine Cowl to Firewall

1. PLANNING INFORMATION

1.1. EFFECTIVITY

All R2000 and HR200 series aircraft.

1.2. CONCURRENT REQUIREMENTS

Nil

1.3. REASON

Type design includes a neoprene rubber seal between the engine cowl and firewall edge. This seal has a dual purpose. It protects against chafing, and it may have an important function in preventing engine gasses, fumes and smells from entering the aircraft fresh air ventilation system. Neglecting this seal, combined with exhaust leaks could compromise the quality of the air entering the fresh air ventilation circuit.

As a safety precaution it is recommended to carry out the checks and inspection detailed in 1.5 below.

1.4. DESCRIPTION

The cowl to firewall neoprene rubber seal may be missing, worn or gaps may open between cowl and firewall, allowing leakage of engine gasses into the fresh air ventilation circuit.

1.5. COMPLIANCE

On receipt of this SB inspect aircraft for compliance within the next 5 hours of operation.

- Check for the presence of a cowl to firewall seal
- Check for condition of seal and proper fitting, with no air gaps allowing leakage.
- Repeat inspection at every 100 hour service.

Make a log book entry stating compliance with this Service Bulletin. The entry shall identify the action taken to satisfy this Service Bulletin.

1.6. APPROVAL

Alpha Aviation Design Organization DO65180

1.7. WEIGHT AND BALANCE

Nil affect on weight or balance

1.8. REFERENCES

R2000 Service Manual.

1.9. OTHER PUBLICATIONS AFFECTED

Nil

SERVICE BULLETIN

AA-SB-71-005

Seal – Engine Cowl to Firewall

2. ACCOMPLISHMENT INSTRUCTIONS

Inspection:- Remove engine cowls in accordance with Service Manual. Visually inspect presence of rubber seal between cowl and firewall edge. The seal called out on the type design is Neoprene, 40mm wide 1mm thick. Ensure the seal is properly attached with contact adhesive.

Re-install the cowl with a number of paper strips inserted between the cowl and the firewall edge. Fit must be such that the strips are at least lightly pinched and cannot be easily extracted without pulling with some force. If gaps exist due to wear and tear on the cowl, firewall or seal strip, the seal must be repaired or replaced to achieve an effective seal between cowl and firewall edge.

If wear to the cowl, or poor cowl fitting is evident, such that the seal strip cannot provide effective seal, it may be necessary to carry out repairs to the cowl. Repair the cowl to achieve a uniform gap between cowl and firewall edge so that the seal strip can provide effective sealing. These repairs should be carried out in accordance with R2000 Service Manual Paragraph 4.9

3. FEED BACK

Maintenance organisations are requested to provide feedback on the results of the inspection. Please use Alpha form DES 22 (Design Feedback Form) for this purpose. A copy of the form and mailing details can be found in the Service Manual and on the web at <http://www.alphaaviation.co.nz/publications.shtml>.

Contact Information:



Ingram Road
Hamilton Airport
RD 2
Hamilton 3282
NEW ZEALAND

Phone: + 64 7 843 7070 Fax: + 64 7 843 8040
Web: www.alphaaviation.co.nz