

RECOMMENDED SERVICE BULLETIN

NUMBER: SB11-01

REVISION: 00

DATE: 01/31/2011

SUBJECT: NOSE COWLING INSPECTION AND HEAT BLANKET INSTALLATION

EFFECTIVITY:

KODIAK 100 Series Aircraft Serial Numbers: 100-001 through 100-047

SUMMARY:

Quest has received a single report of heat blistering on the inside of the nose cowling (P/N **100-171-2401**). This Recommended Service Bulletin describes the inspection of the nose cowling (P/N **100-171-2401**) and installation of a nose cowling heat blanket (P/N **100-171-2403**).

ACTION:

Quest is recommending a one time inspection of the nose cowling (P/N **100-171-2401**) as shown in **Figure 1-1**, and installation of a nose cowling heat blanket (P/N **100-171-2403**) to the area shown in **Figure 3-1**.

LOG OF CHANGES:

Revision:	Date:	Description of Change:
00	01/31/2011	Initial Release

ATTACHED DOCUMENTS:

Document #:	Date:	Document Title:
RTV157-RTV159	07/24/2007	RTV159 Technical Data Sheet

PARTS, TOOLS, AND EQUIPMENT:

The parts, tools and equipment listed below are needed in order to complete the instructions contained within. Contact Quest Customer Service for parts and availability.

Item	Quantity	Part Number	Description
1	1	100-171-2403	Nose Cowling Heat Blanket
2	1	RTV159 (2.8 FL OZ)	RTV159 Silicone Rubber Adhesive

FAA APPROVED:

The inspection and modification described in this Recommended Service Bulletin has shown compliance with the applicable Federal Aviation Regulations and is FAA Approved.

COMPLIANCE:

Optional.

INDUSTRY SUPPORT INFORMATION:

N/A

WEIGHT AND BALANCE:

Negligible

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CREDIT and WARRANTY INFORMATION:

Quest will provide installation parts at no cost. Contact Quest Customer Service for parts and availability.

*Quest Customer Service
Service Bulletin SB11-01
Phone: (208)263-1111 Toll Free: 1(866)263-1112
Email: Customercare@questaircraft.com*

COMPLETION:

Record the work performed in the KODIAK 100 Maintenance Records.

ACCOMPLISHMENT INSTRUCTIONS:

Accomplishment Instructions are listed in the next section of this Service Bulletin.

MANPOWER:

The instructions contained in this Recommended Service Bulletin will take approximately:

- 0.5 hours (for inspection)
- 0.5 hours (for installation of the nose cowling heat blanket (P/N **100-171-2403**))
- 12-24 hours (for cure time)

Attached Documents:

Technical Data Sheet for RTV159.

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1. REMOVAL AND INSPECTION OF THE NOSE COWLING

1.1 NOSE COWLING REMOVAL

Remove the nose cowling (P/N 100-171-2401) in accordance with the KODIAK 100 Maintenance Manual.

1.2 INSPECTION OF THE NOSE COWLING

Inspect the interior and exterior of the nose cowling (P/N 100-171-2401) in the location indicated in **Figure 1-1**. Inspect for delamination, major discoloration and blistering. If damage or defects are detected, proceed to **Section 2**, otherwise proceed to **Section 3**.

NOTE: A slight yellowing discoloration of the inside of the nose cowling (P/N 100-171-2401) is normal and does not indicate damage.

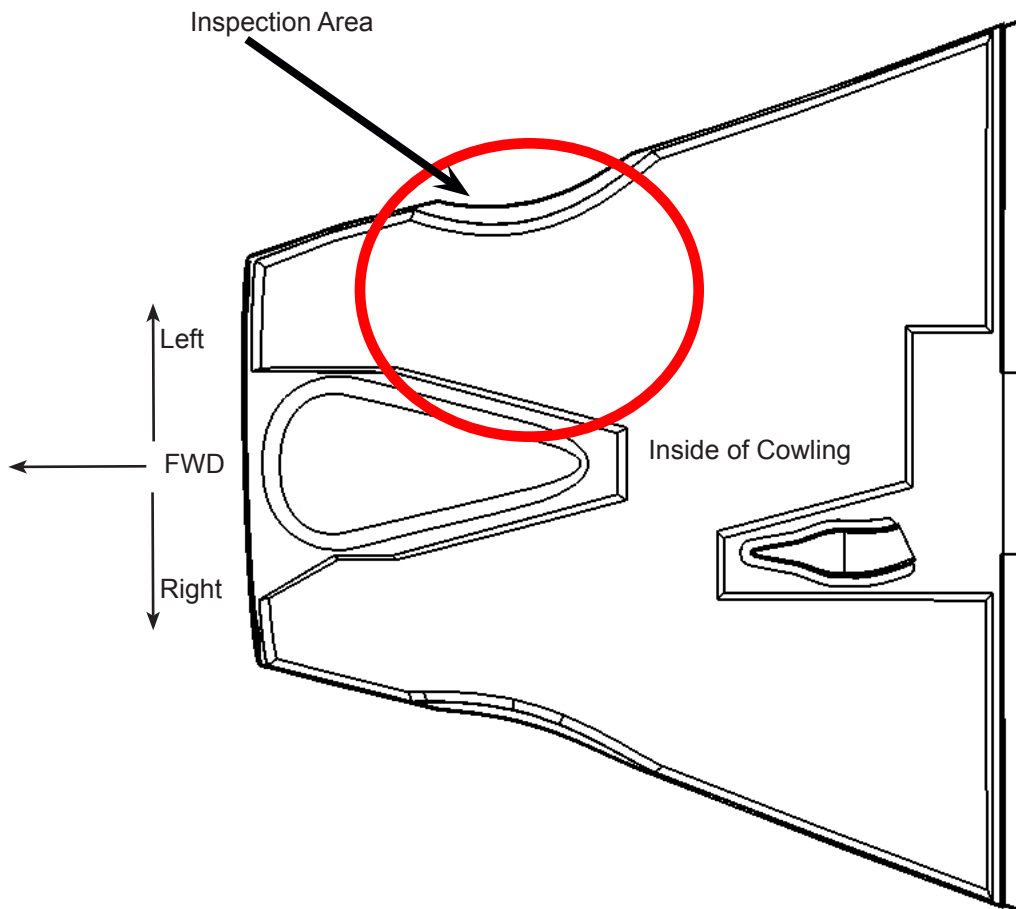


Figure 1-1: Nose Cowling Inspection Area

2. NOSE COWLING REPAIR

2.1 REPAIR INFORMATION

All repairs must be made in accordance with AC43.13 (**Chapter 3**).

NOTE: Review all material data sheets for the materials to be used during the nose cowling repair. Ensure that all data sheets are followed and that care is taken to ensure personal safety.

Limitations of Repair: (If repair cannot be completed within the limits outlined below, contact Quest Aircraft Company for directions.)

- Delaminated area must be less than or equal to 16 square inches.
- The exterior of the cowling may not be repaired using the procedure below. If damage exists on the exterior of the cowling, contact Quest Customer Service for repair instructions.

Materials for Repair: (The following materials are approved for this repair in the area outlined above. Repair materials not provided by Quest.)

Epoxy Resin: Magnolia 6167 A/B

Fiberglass: Style 7781 (8.9oz Fiberglass E Cloth)

Honeycomb: 3/8" thick Nomex overexpanded honeycomb with 3/16" cell size and 3 lb/cu.ft density.

Finish: Apply Dexter Aerospace 643-3 series polyurethane enamel gloss or equivalent paint on interior cowl surfaces.

3. INSTALLATION OF NOSE COWLING HEAT BLANKET

1. Position the nose cowling heat blanket (P/N **100-171-2403**) as shown in **Figure 3-1**.

NOTE: The bonding surface of the nose cowling heat blanket is colored red.

CAUTION: Follow all manufacturer's safety instructions.

2. Mark the outline of the nose cowling heat blanket (P/N **100-171-2403**) and remove it from the nose cowling (P/N **100-171-2401**)
3. Using MEK or equivalent, clean the bonding areas of the nose cowling (P/N **100-171-2401**) and the nose cowling heat blanket (P/N **100-171-2403**)
4. Apply RTV159 evenly to the bonding surface of the nose cowling heat blanket (P/N **100-171-2403**). Position and firmly press the nose cowling heat blanket (P/N **100-171-2403**) onto the nose cowling (P/N **100-171-2401**). Slowly work out any air bubbles.

NOTE: Using RTV159, fillets may be created along the edges of the nose cowling heat blanket.

5. Clean any excess RTV159 with alcohol, Acetone or MEK.
6. Touch-free cure time is 30 min, Room-temp cure time is 24 hours.

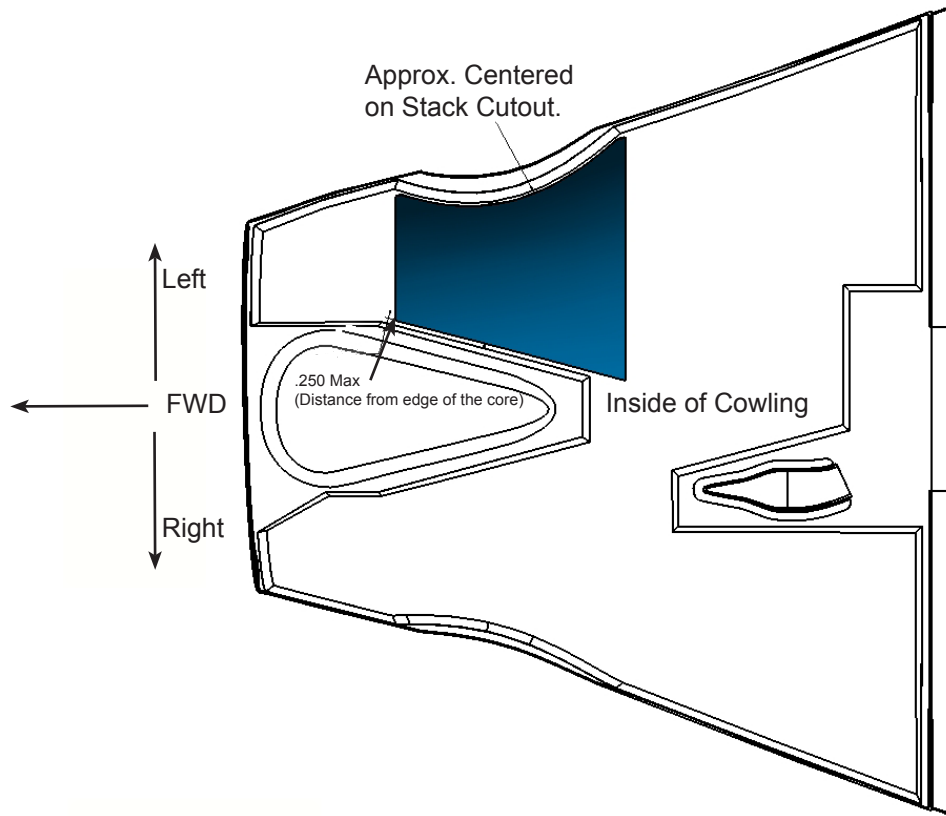


Figure 3-1: Nose Cowling Heat Blanket Installation

4. REINSTALLATION OF THE NOSE COWLING

4.1 NOSE COWLING INSTALLATION

Reinstall the nose cowling (P/N 100-171-2401) in accordance with the KODIAK 100 Maintenance Manual.

5. RECORD WORK PERFORMED IN KODIAK LOG BOOKS

Upon completion, record all work performed in the appropriate KODIAK maintenance records.