

MANDATORY SERVICE BULLETIN

NUMBER: SB-011

DATE: 6/07/09

SUBJECT: FLIGHT SURFACES; ADJUSTMENT

SUMMARY

RECURRENT REQUIREMENTS

No recurrent requirements associated with this Mandatory Service Bulletin.

BACKGROUND

This Service Bulletin contains instructions to increase the clearance between the rudder and elevator flight control surfaces.

ACTION

Follow the instructions contained in this Service Bulletin to increase the clearance between the rudder and elevator control surfaces.



Figure 1: Rudder Trimming

EFFECTIVITY

KODIAK 100 Series Aircraft, Serial Numbers 100-0001 through 100-0003

AFFECTED PARTS

KODIAK PART AFFECTED:

- N/A

REPLACEMENT PART FOR AIRCRAFT RECORDS:

- N/A

COMPLIANCE

This Mandatory Service Bulletin must be completed no later than the next 10 flight hours.

INDUSTRY SUPPORT INFORMATION

None

MANPOWER

The instructions contained in this Service Bulletin will take approximately 1.5 hours to complete.

COMPLETION

Update the KODIAK Maintenance Log Books.

WARRANTY INFORMATION

This modification is warranty reimbursable for the manpower listed above after Quest Aircraft has been notified of your completion.

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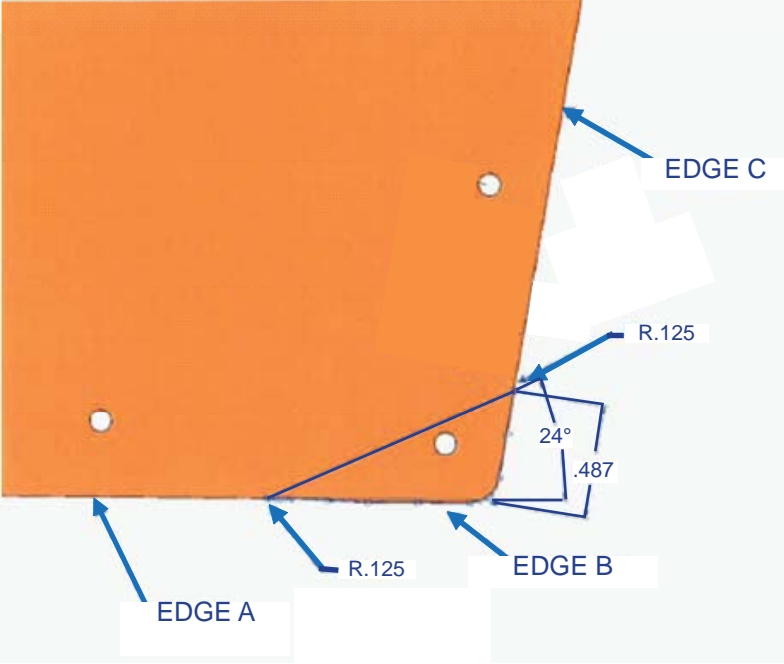
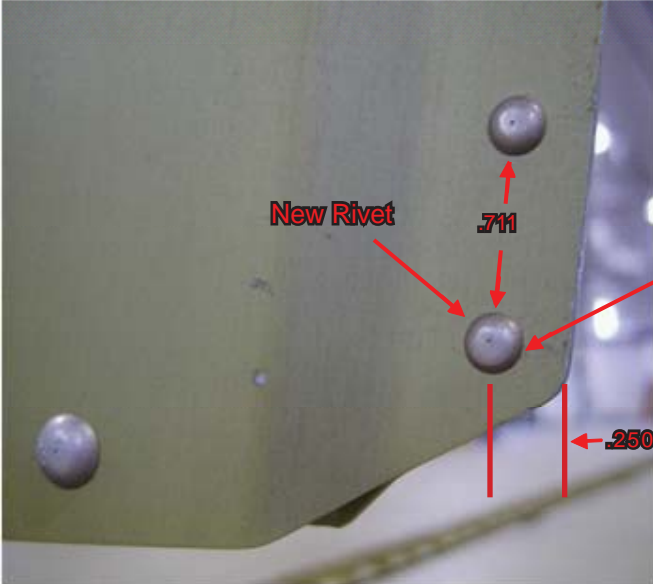


IMPORTANT SERVICE BULLETIN

Rudder Trimming

TRIMMING INSTRUCTIONS

Rudder Trimming

Task	Instruction
1	Removal of the rudder is not necessary in order to accomplish this task. Some type of protection for the elevator may be used if so desired.
2	<p>Trim rudder according to the dimensions given. .487" dimension is measured upward from the virtual sharp of "EDGE B" and "EDGE C". 24° dimension measured from "EDGE A". Add R.125" corner rounds.</p>  <p>The diagram shows an orange rudder with three edges labeled: EDGE A (bottom), EDGE B (right), and EDGE C (top). A 24-degree angle is shown between EDGE A and EDGE B. A dimension of .487 inches is shown as a vertical line from the virtual sharp of EDGE B and EDGE C to the top edge. Two corner radii of R.125 are indicated at the bottom corners.</p>
3	<p>Drill the new tooling hole .711" below the existing rivet. The new hole should be .098" diameter. Use a MS20470AD-3 rivet.</p>  <p>The close-up photo shows a metal surface with two rivets. A red arrow points to a 'New Rivet' located .711 inches below an existing rivet. A dimension of .250 inches is shown from the bottom edge to the center of the new rivet. A dimension of .098 inches is shown as the diameter of the new rivet hole.</p>
4	Alodine, Prime and Paint the bare areas to prevent corrosion.

Rudder Trimming

Task	Instruction	
5	Re-balancing of the rudder is not required. The small amount of weight that was removed is negligible.	
6	Annotate the work performed in the Kodiak 100 Log Books .	

