

## SERVICE BULLETIN No. 300-1-96

### Information only

Subject: Additional aileron hinge

Models affected: EA-300 EA-300/S EA-300/L EA-300/200

Serial numbers affected: V1,01 to 63 01 to 28 01 to 33 01 to 03

Purpose: A resonance vibration of the aileron's inner end under special circumstances (high g loading at speeds above 180kts) has been reported. The modification described below is only advisable for those aircraft suffering from the same phenomenon.

Approval: The technical contents of this Service Bulletin have been approved by LBA.

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#### Instructions:

- Before accomplishing the following modification, check if the aileron moment values are within the limits listed in the Service Manual, chapter 51-60-01.
- Find out the exact position of the rotary axis on the inner aileron end rib. Mark the center spot here as well as on the wing rib at the other side of the gap.
- Remove the aileron from the wing according to the instructions in the S/M.
- Drill a 24mm (15/16") dia. hole at the center spot of the aileron rib.
- Remove the paint and the foam on the wing rib within a diameter of about 40mm (1.6") around the center mark until the plywood rib is exposed. (EA-300 wings up to S/N33 feature no foam filling.)
- Mix epoxy resin L20 with hardener SL (see S/M chapter 57-30-01) and add about 20 per cent weight of flocked cotton fibers in order to produce a viscous, non-dripping glue. Glue the bearing assembly (PC-13105.12) into the oversize hole, using enough epoxy to fill the gap. Look out that the bearing remains free from glue. Put the pivot (PC-13105.11) into the bearing, then immediately mount the aileron to the wing.

- Before the epoxy starts to cure, gently move the aileron up and down a few times to make sure that the bearing is aligned with the other three bearings. Fasten the pivot provisionally in the proper position on the wing rib.
- Let the epoxy cure according to the instructions in S/M chapter 51-70-02, then remove the aileron again.
- Screw down the pivot and the bearing by means of 4 self-tapping screws each. Then secure the pivot by laminating 2 layers of glasscloth type 92125 over the pivot and the whole surrounding surface.
- Paint the affected surfaces.
- Check the aileron balance according to S/M chapter 51-60-01, then mount the aileron again. Review the aileron deflection angles (see S/M).
- Make appropriate entry of the retrofit in the aircraft logbook.

- Note:

Alterations or repairs of the aircraft may be accomplished by licensed personnel only and must be checked by aircraft inspectors.

- Required material:

Pivot	PC-13105.11
Bearing assembly	PC-13105.12
8 self-tapping screws, 4x20mm, recessed head	

