



Limited Company, 64 Znojemska street, 586 01 JIHLAVA, Czech Republic

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## SERVICE BULLETIN 01/2008

Bulletin Number: 01/2008

Issue Date: 14th January 2008

**Subject: Brake piston may come partly out of its cylinder and get stucked**

**Classification:** Suggestion

**Airplanes Affected (s.n.):** 5109127 K, 5111129 K, 5121130 K, 5113131 K, 5114132 K, 5115133 K, 5120136 L, 5122138 L, 5125142 M, 5126143 L, 5132145 M, 5133146 M, 5138150 M, 5142153 M, 5137162 M, 5141163 M, 5139164 M, 5140167 M.

Page: 1 of 1

**Compliance:** Before Next Flight

**Reason:** Incorrect adjustment of the brake system. Adjustable screws on both levers are not in the same position and are not in „mesh“ (not pressing the pistons correctly).

**Description:** Adjustable screw on the lever of main cylinder (pilot side) was loose-fitting (non-proportionally screwed up) a therefore had the possibility to spontaneously loosen up by vibrations. During braking attempt the screw get stuck and blocked the lever. Subsequent braking by copilot lever caused pushing up piston of the main brake cylinder from the working position and subsequent stucking of piston in cylinder incl. leakage of the brake fluid.

**Action:** Remove complete stucked brake cylinder from the airplane. It is needed to dismount the brake lever from the brake handle body (there is the small securing screw from the front), subsequently slide out the lever axis. Place the piston into coaxial position and remove the piston. **Attention: There is a spring inside the cylinder!** Check the possibility of piston damage. If OK, execute the backward installation of whole brake handle body and approach to the adjustment of the securing screws so, that pistons on both levers will project max. 4mm (0,1575 in) above the brake cylinder. Subsequently execute the adjustment of whole brake system. Act following the enclosed official Manual of the brake system manufacturer. **Check the adjustable screws during pre-flight checks.** After executing of the brake system adjustment, perform the last action. Unscrew the adjustable screw on left side about ½ inch, put the Loctite 243 glue on the screw thread a again screw the adjustace screw in the originál position (½ inch back). Do the same for right side (2nd brake lever). Check the whole system once again. For first adjustment use bigger force than usual, because of the newly applied Loctite 243. This glue increases fiction and screws will not loosen up anymore.

**Availability:** LOCTITE 243 glue is needed for the corrective action. Ask your local aircraft dealer or search on [www.loctite.com](http://www.loctite.com) for Loctite dealer in your territory.

**Annexe:**

- Manual for installing hydraulic brakes with closed brake circuit (ownership of company Kašpar®)
- Photo of the brake handle (ownership of JIHLAVAN airplanes, s.r.o.)

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