ROTAX. SERVICE INFORMATION

Gearbox fixation on UL-engines type 377, 447, 462, 503 and 532

<u>1) INTRODUCTION</u>

The adapter flange connecting the engine crankcase with the gearbox is fixed by

4 x 841 940 Allen screw M10x50 on type 532

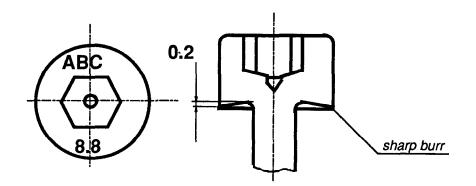
4 x 841 820 Allen screw M10x45 on types 377 / 447 / 462 / 503.

<u>2) PROBLEM</u>

In isolated cases, where heavy propellers were used, screw heads forced into the adapter flange and loosened it.

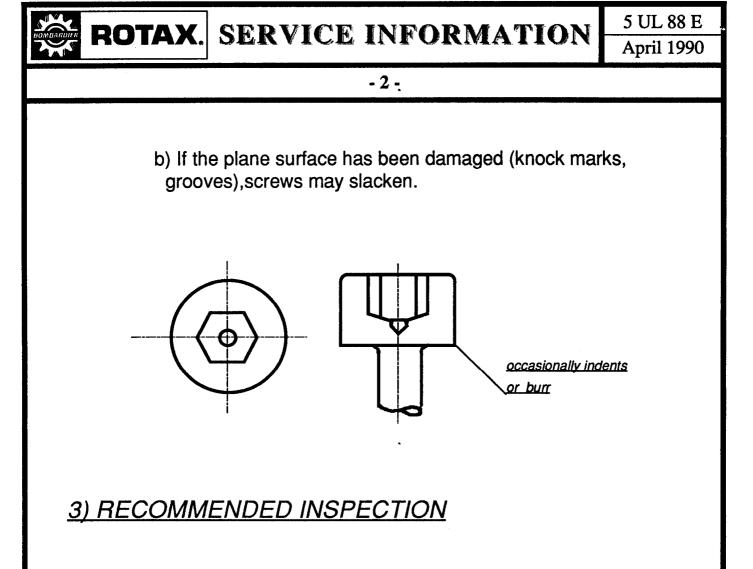
Screw type involved:

a) Screw head contact surface is tapered by 0,2 mm. Only the outer edge of the screw head is contacting the flange, slackening the screw fit by vibrations.



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Before and after every flight check for loosening by visual inspection for any fretting or black aluminium dust at the contact surfaces. If necessary remove gear-box.

4) CORRECTION

If inspection revealed loose adapter plate, then proceed as follows:

- A: Depending on screws mounted:
 - Scrap "ABC" screws and order new screws (part no. : see item 1)
 - Rework screws showing indents and or burrs, or order new screws.
- B: Clean all contact surfaces and the bosses on crankcase carefully.

