

The play is removed by putting thin metal washers between fuselage wingroot pins and their metal fitting in the fuselage. The pins are pushed out of the fitting tube by feeding a steel rod through the hole of the opposite pin and blowing the pin out with a hammer. The pin should be replaced after the installation of the washer with some blows of a 1 lb. hammer.

If the fitting is too wide the pin can be either safetied by 4 mm (1/8 inch) bolts and nuts or by treating the wide end of the pin slightly with a tool in a leath as it is used for making rough handles on metal rods.

On major repairs of the control surfaces care risks that they become heavier and that the Center of Gravity of the control surfaces moves back.

This can lead to flutter. It is therefore recommended to make a light weight repair and to ask the manufacturer for tolerances.

2.9 Appendix

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*During every annual inspection as well as after hard landings, crashes etc. the elevator actuator bellcrank inside the fin has to be inspected according to TN 21.