

Replacing the bolt of bearing stand 5RU61

1. Derig the glider and remove the baggage compartment floor and back cover plate.
2. Identify the bellcrank 5St19 referring to diagram 1 of the maintenance manual.
3. Use a powerful lamp to illuminate the fuselage from the inside. Mark the edges of the gluing flange of bearing stand 5RU61 on the outside of the fuselage.
4. Drill a 6mm (1/4 in.) hole in the centre of the marking according to drawing 1. Enlarge this hole with a 10 mm (3/8 in.) drill. Then enlarge it to a dia. of max. 20 mm(6/8 in.) with a 6mm (1/4 in.) hard metal rotary file. Shift the centre of the hole to the centre of the bolt head while enlarging the hole.
5. Remove any resin and the GFRP fabric located on top of the bolt head with the hard metal rotary file. Don't remove the resin and the fabric from the spanner flats of the bolt head.
6. Heat the bolt head up to approx. 150°C (300° F) with a hot air gun. The hot air gun must be equipped with a nozzle with an inside diameter of approx. 5mm.
7. Knock out the bolt from the inside of the fuselage using a steel hammer..
8. Push in the new bolt so that its spanner flats slip into the recess from the existing bolt head.
9. Reinstall bellcrank 5St19, use a new self locking nut.
10. Retorque the nut with a torque wrench with a torque of 12 Nm(9 ft. lb.)
11. Execute a control check.
12. Reinstall the baggage compartment floor and back cover plate.
13. The hole in the fuselage wall shall not be closed permanently. It shall remain as an access hole.
Close the hole with a suitable sticker.

Material:

- 1 bolt M6x44 LN9037
- 1 self locking nut M6 DIN985-8zn
or M6 LN9348
- 1 sticker diameter 32 mm

