

GLIDING FEDERATION OF AUSTRALIA

AIRWORTHINESS DIRECTIVE GLIDERS

GFA/AD 179 EIRIAVION OY 14

GLIDER TYPE AFFECTED: PIK 20D Serial numbers 20566 to 20593 inclusive.

SUBJECT: Wing surface skin.

BACKGROUND: There have been cases found where the wing surface skin has been improperly bonded to the core in small spots.

REQUIRED ACTION: Before further flight:-

- (a) Locate delaminated areas by tapping the surface (a defective area has a distinct sound). In addition, by viewing against a light, the delaminated area can usually be seen. Mark areas by drawing a circle around them with a pencil. Areas bigger than 50 x 200 mm must be repaired according to PIK 20 D Repair Manual, Section 1 and 3.2
- (b) Drill 2mm diameter holes at both ends of the delaminated areas. (See figure 1.)

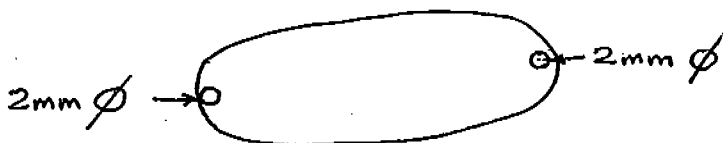


Figure 1.

Do not drill through into the P.V.C. foam, only through the surface laminate. (See figure 2.)

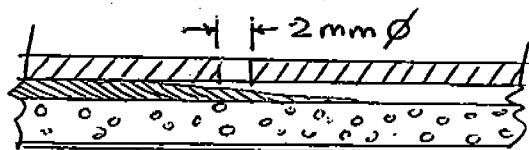


Figure 2.

- (c) Inject LO2 + H91 resin with a syringe, so that the lower hole is used for injection and the upper as a "bleeding" hole. Fill the space with resin until it starts to "bleed" from the other hole. Cover the holes with tape to prevent further "bleeding". If the area, due to pressure of resin, bulges out, it can be pressed down with a plate and foam rubber to divide the pressure.
- (d) When the resin has hardened, check the structure according to Step (a). (Minimum hardening temperature 20° C and 15 hours).
- (e) Fill and smooth out the holes. Smooth the area by wet sanding with 400 to 1000 grit.
- (f) If the surface paint is sanded away the area must be repainted as per Repair Manual.

Note: The examination to be carried out by holders of DOT 1109 endorsed for C. of A. on F.R.P. and repair if required to be carried out by holders of DOT 1109 endorsed for minor repairs on FRP. The work shall be entered into the Gliders log book.

COMPLIANCE: The requirements of this A.D. are mandatory. This Directive is issued pursuant to Air Navigation Regulations under authority delegated by the Secretary of the Department of Transport.

Douglas Lyon

DOUGLAS LYON

G.F.A. CHIEF TECHNICAL OFFICER AIR.

Date of issue: 13th ~~July~~ ^{JUNE}, 1980