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AND	THE GUIDING FEDERATION OF AUSTRALIA Inc
(岩) GFA)号	
-OUNDED 1949	GFA AD 685 Issue 1
	Date: 26 Oct 2017
C4/1-13 THE GATEWAY, BROADMEADOWS VICTORIA 3047 PHONE +61 (0) 3 9359 9865, FAX +61 (0) 3 9359 1613. ABN: 82 433 264 489	Note: This Airworthiness Directive is issued by the Gliding Federation of Australia
Type Certificate Holder	Zakład Szybowcowy "Jeżów"
Manufacturer(s)	Zakład Szybowcowy "Jeżów"
Types/Models Affected	PW-6U
Serial Numbers	All – Except for VH-WGQ S/N 78/05/01
Subject	Manufacture And Fitment Of Front Cockpit Canopy Jettison Guard
Implementation	MANDATORY
Background	An Australian PW-6U experienced an uncommanded front canopy jettison in flight. Investigation into the event suggested that the canopy jettison could be triggered by inadvertent contact by the front pilot's / passenger's foot. Warwick Gliding Club developed and had approved a modification to prevent uncommanded jettison by fitting a guard below the canopy jettison mechanism. This Airworthiness Directive mandates a similar protective guard to be manufactured and fitted on a PW-6U aircraft. The guard design is based on the guard developed for VH-WGQ S/N 78/05/01 (document 1).
Decumentation	1. Engineering Order No. D.H. / CEA 2017/01 loove 1
Documentation	1. Engineering Order No. DJL / GFA 2017/01 issue 1
Required Action(s)	1. By no later than 30 Jan 2018, manufacture and fit the front canopy guard as follows:
	Materials Required Steel Tube - 1.25 inch x 0.049 inch seamless steel tube, length 85 mm (4130 tube to Mil-T-6736 preferred) Steel Tube – 1.00 inch x 0.035 inch seamless steel tube, length 132 mm (4130 tube to Mil-T-6736 preferred) Steel Tube – 0.375 inch x 0.058 inch steel tube, length 120 mm Bolts – M6 grade 8.8, length 40mm, quantity 4 Nuts – self locking M6, quantity 4 Aluminium foil self adhesive tape

The guard is a welded steel assembly (see Figures 1, 2 and 3) comprising a split-tube clamp sleeve 85 mm long, made from 1.25 inch x 0.049 inch seamless tube, which clamps to the 28 mm OD steel tube that carries the triangular front canopy attachment via four M6 bolts.



Figure 1: Guard Assembly

Cut the 0.375 inch x 0.058 inch steel tube into four 30 mm lengths.

Weld the four 30 mm lengths of tube perpendicular to the 1.25 inch x 0.049 inch tube as shown in Figure 1. Weld using GTAW with ER 70 S2 filler or equivalent. NOTE: *This is not a structural component, any welder who is familiar with the specified materials and processes is acceptable.*

Cut the 1.25 inch x 0.049 inch tube down the centreline using a band saw or similar.

Flatten the 1.00 inch x 0.035 inch tube so that its major diameter is approximately 1.0625 inch wide. Cut the tube longitudinally on its major diameter using a band saw or similar.

Notch one end of the flattened tube to fit the 1.25 inch tube at approximately 45 degrees. Notch one end of one half of the 1.25 inch clamp tube to suit as well. Weld tubes at approximately 45 degrees using GTAW with ER 70 S2 filler or equivalent. NOTE: *This is not a structural component, any welder who is familiar with the specified materials and processes is acceptable.*

Treat the assembly with deoxidine or equivalent IAW the manufacturer's instructions, prime with an iron oxide enamel



Compliance, Compliance Time(s) and Frequency	Compliance with this Airworthiness Directive is mandatory and compliance, including action taken pursuant to this Airworthiness Directive must be recorded in the aircraft log book. Compliance must be carried out by no later than 30 Jan 2018.
Effect on Weight and Balance	No effect on W&B.
Effective Date	26 October 2017