

No: 000269

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Send To: 922 FAIRINGS KIT

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Subject: NEW STYLE FLYING WIRE
JAVELINS ON EAGLE II
AIRCRAFT

The Eagle II aircraft is equipped with streamlined aluminum javelins which are mounted with rubber insulators on the wing brace wires to dampen engine induced and aerodynamic vibration of the wires. The javelins must be mounted on the wires in a position which leaves them free of flexure. This normally requires that they be slightly out of parallel with the longitudinal axis of the aircraft (non-streamlined). If the javelins are mounted so that they are flexed or bowed by the wires, wire vibration in flight will cause work-hardening of the javelin material in the areas adjacent to the wires, and cracking with resultant javelin failure will occur.

Javelins should always be mounted carefully in accordance with the procedure presented in the product manual for the 922 Fairings Kit. In addition, javelins should be inspected as a part of the pre-flight inspection procedure described in the Eagle II Airplane Flight Manual.

A few Eagle builders have experienced javelin failures after less than 50 hours of aircraft operation. Others have operated their aircraft for several hundred hours without evidence of the cracking problem. All broken javelins have been replaced by Christen under warranty, and in most cases the replacements have performed satisfactorily; however, in some instances the cracking problem has persisted, even with very careful javelin installation.

The javelin mounting process was made less critical with the introduction several months ago of the new five-piece javelin assemblies which are now standard in all Eagle II 922 Fairings Kits. There have been no reported incidences of cracking or failure with the new-style javelins.

Javelins of the original type which may develop cracks in the future will be replaced under warranty with the new type javelin assemblies.

ENCLOSURES: None