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Subject: INSTALLATION OF INSPEC-
TION RINGS IN FABRIC OF
UPPER AND LOWER WINGS ON
EAGLE II AIRCRAFT

Fabric reinforcing acetate inspection rings are installed on the fabric surfaces of the Eagle II aircraft as a part of the fabric covering process. Openings into the interior of fabric covered areas of the aircraft are made by cutting out the central areas of the inspection rings. These openings allow inspection and servicing of critical features of the aircraft structure and control systems. The openings are covered for flight with domed metal inspection ring covers which are painted to match the exterior of the aircraft and which are held in place by an internal spring clip and two external screws.

The locations of inspection rings are indicated in Sections G and H of the product manual for the 923 Covering and Prefinish Kit. Until recently the rings located at the intersections of the drag and anti-drag wires in the upper and lower wings were described in the manual as optional, since the only features to inspect in these areas are the tensions of the drag and anti-drag wires, and since these tensions rarely change if the wires are adjusted properly prior to covering.

These inspection rings are now considered mandatory rather than optional because several Eagle II builders have found it necessary to re-tension the wires after operating their aircraft aerobatically for 25 to 50 hours. This requirement for re-tensioning is of no structural consequence, and it is likely attributable to improper original tensioning of the wires. The re-tensioning can be performed quickly and easily if all inspection openings are present.

All Eagle II builders should install all inspection rings on their aircraft, including those which were originally identified as optional. This will ensure easy inspection and/or adjustment of internal parts and structures during the periodic inspections outlined in the Eagle II aircraft 924 Flight Kit. All future issues of the 923 Kit manual will indicate that all inspection ring locations are mandatory.

ENCLOSURES: None