



**MANDATORY**  
**SERVICE BULLETIN**

**No. 0002**

**DATE: 20<sup>TH</sup> JANUARY 2009**

**58 KEMP STREET  
KILBIRNIE, WELLINGTON 6022, NZ**

**SUBJECT:** Replacement of Duplicating Link @ STN 4

**MODELS AFFECTED:** Serial Numbers Affected:  
SE5A WA18  
WA19  
WA20

**COMPLIANCE TIME:** This Service Bulletin becomes effective upon receipt at which time compliance should be met before next scheduled flight.

**BACKGROUND:** During WWI the Aeronautical Inspection Department of the Royal Aircraft Factory developed inspection procedures and specifications to control the standard of metals and other materials that were used in their designs. There were many hundreds of spec numbers given to the numerous materials used to manufacture parts and products from. During the construction of SE5A-1 serial numbers, WA18, WA19 and WA20 duplicating link P/no W1S010073 was reproduced from AISI 4140 steel. This steel had been identified as equivalent to or exceeding RAF spec 6 which was called up on the original RAF drawing dated October 1916. Further information has been discovered that shows that the original spec RAF 6 was cancelled and replaced by RAF spec 6A on June 19<sup>th</sup> 1914. RAF spec 6 was a general forging steel having a "55 ton" tensile rating. RAF spec 6A was a forging steel having a "100 ton" tensile rating.

**PURPOSE:** Duplicating link W1S010073 transfers flight loads from the upper wing via a bracket at the junction of the strut and main spar. Two streamlined flying wires carry the load to an attachment bracket at the junction of the lower wing main spar and the fuselage. To increase the safety factor in the event that one of the streamlined flying wires fails, the fitting has been redesigned and manufactured from equivalent steel to RAF spec 6A.

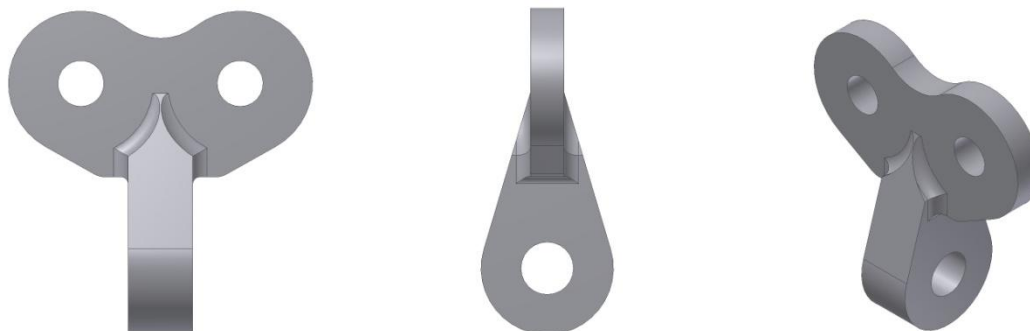
**COMPLIANCE:** Replacement of duplicating link W1S010073 with duplicating link **W1S070030** by using the instructions described below will ensure full compliance with this service bulletin.

## INSTRUCTIONS:

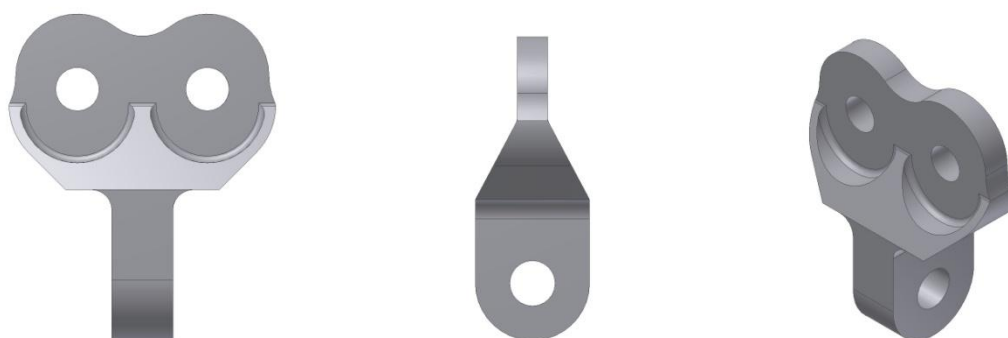
1. Order and install Duplicating Link @ STN 4 P/N W1S070030 to replace existing Duplicating Link P/N W1S010073.

### PART IDENTIFICATION:

Part No. W1S010073



Part No. W1S070030



2. Removal and installation of duplication link.
  - (a) Slacken both landing wires until front flying wires become slack enough to remove all duplicating link pins.
  - (b) Measure difference in length of link removed to replacement link length.
  - (c) Shorten/lengthen both flying wires to suit (so that installed wire lengths are identical to lengths prior to link replacement).
  - (d) Install new link and safety all pins.
  - (e) Retension both landing wires.
  - (f) Repeat for other side.
3. Make a logbook entry indicating compliance with this Service Bulletin

**PARTS SUPPLIER:** The Vintage Aviator Limited

### SUMMARY:

### NOTES: