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CAMSHAFTS IN ENGINES USED ON EXPERIMENTAL **AIRCRAFT**

1.0 **SUBJECT:** This service instruction provides installation instructions for experimental camshafts utilizing spiral retaining rings instead of MS16625 circular retaining clips. This assembly has NOT been FAA Approved for certificated applications.

DISASSEMBLY PROCEDURE: 2.0

- Disassembly requires the use of two small flathead screwdrivers (3 mm or 5/32", for example).
- 2.2 Pick the end of the retaining ring out of the groove with one screwdriver. See Figure 1 below.
- With the second screwdriver, spiral the retaining ring clear of the groove and camshaft hole. See Figure 2 below.
- 2.4 Retaining rings must NOT be reused. Contact ECi for replacement parts.

3.0 **ASSEMBLY PROCEDURE:**

- 3.1 First, place the tachometer shaft AEL76121 in the end of the camshaft.
- Slightly stretch the retaining ring approximately 3/4" by pulling the two ends apart. See Figure 3 below.
- 3.3 Place the end of the retaining ring in the ring groove and, using a small flathead screwdriver (3 mm or 5/32", for example), press the retaining ring into place, moving around the camshaft hole in a circular pattern to spiral the retainer into place.
- 3.4 A fully seated Spiral Retaining ring will look like that shown in Figure 5 below.



Figure 1: Picking the End of the Ring Out of the Groove



Figure 2: Disassembly of the Spiral Retaining Ring

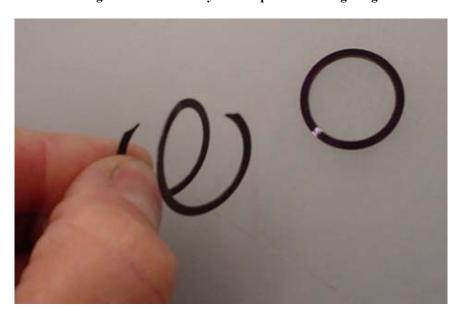


Figure 3: Stretching of Spiral Retaining Ring



Figure 4: Assembly of Spiral Retaining Ring



Figure 5: Finished Assembly showing a Fully Seated Spiral Retaining Ring