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.

2.0 **DISASSEMBLY PROCEDURE:**

2.1 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.

2.3 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.

3.2 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.

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**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
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Figure 4: Assembly of Spiral Retaining Ring

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