

**>>> Service Letter**

Technical Aspects are FAA Approved

**Number: L01-20 A**

**Replaces ServL 101-020**

**Date:** 07/12/2004

**Subject:** Overhaul and repair of Superior Vacuum Pump Gear.

**Application:**

<b>GEAR ASSEMBLY</b>	<b>ENGINE APPLICATIONS</b>
<b>SL72970</b>	<b>See Superior Service Letter No. L01-19, latest revision</b>

**Compliance:** At any time the above gear is removed for overhaul and repair.

Gear Assembly:

The Superior P/N SL72970 gear assembly is machined from aircraft quality SAE 8600 series alloy steel, carburized and precision ground to finished dimensions. The assembly is comprised of the gear shaft and thrust button, which is permanently pressed into the gear shaft.

Inspection:

The gear assembly should be visually inspected for abnormal wear or damage paying close attention to the gear teeth and internal spline. The gear assembly is to be magnetic particle inspected per ASTM E1444 and accepted per MIL-STD-1907, grade B (or other FAA approved repair station procedures). The allowable shaft size, clearances and gear backlash are shown in Figure 1.

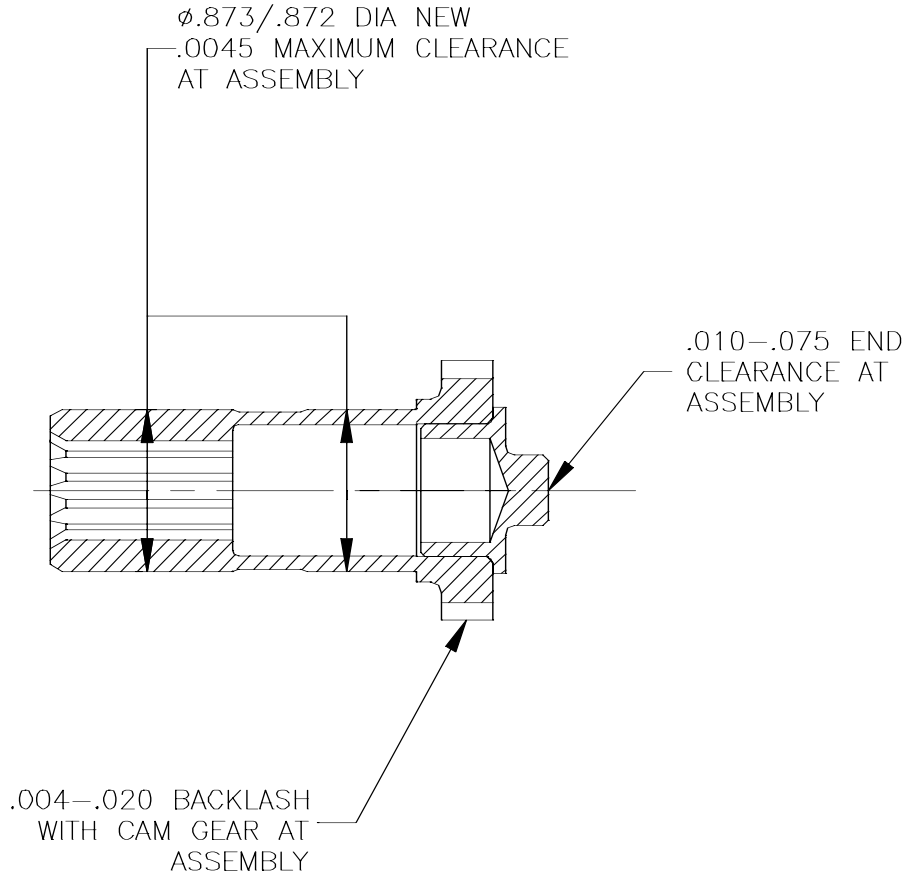


FIGURE 1  
VACCUM PUMP  
GEAR ASSEMBLY