

Service Letter

Technical Aspects are FAA Approved

Number: L02-01 A

Replaces ServL102-001

Date: 07/12/2004

Subject: Fuel Injector Crack Inspection of older SA52000-A1 cylinder stud assemblies.

Engine Application:

Cylinder/Stud Assemblies	Applications
SA52000-A1	IO-520-A, B, BA, C, D, E, F, J, K, L, M, BB, CB, MB TSIO-520-B, BB, C, CE, D, DB, E, EB, G, H, J, JB, K, KB, L, LB, M, N, NB, P, R, T, VB, WB IO-550-A, B, C

Compliance: Every 100 Hour Engine Inspection.

This Service Letter covers inspection of Superior Air Parts, Inc. SA52000 series Millennium® cylinders for cracking between the radius, below the fuel injector boss and the upper spark plug boss (see Figure 1). A small number of early models of Superior's 520 cylinder heads have been reported to crack in this area. This type of cracking has previously occurred on TCM 520 engines and mechanics have historically inspected this area for indications regardless of cylinder manufacturer. The purpose of this Service Letter is to recommend that early models of Superior's 520 cylinders be included in this inspection. Only Superior 520 cylinders manufactured before May 2000 and manufactured with castings identified as SAC52001I or SAC52001I B are susceptible to this cracking. The casting identification can be found in the rocker box area above the valves, as seen in Figure 1. Later castings manufactured by Superior Air Parts have had no reports of cracking.

Inspect applicable cylinders in the area shown in Figure 1 at every 100 Hour Inspection. The area is easily visible and should require no additional labor during the usual visual inspection. If any indication of cracking is found during inspection remove and replace the affected cylinder.

Cylinders that fall within Superior's warranty period may be submitted to a Superior Air Parts' Distributor for Warranty consideration. The cylinder's part number and serial number are identified on the cylinder flange, as shown in Figure 2. If a specific procedure is not addressed in this Service Letter, the applicable procedure in the original equipment manufacturer's current overhaul manual applies.

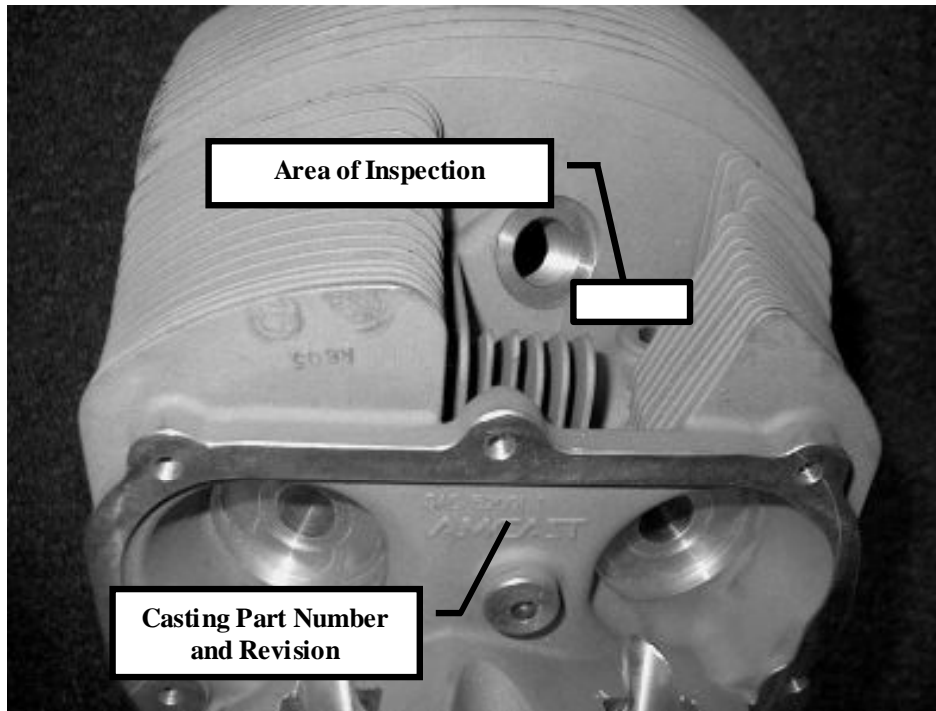


Figure 1

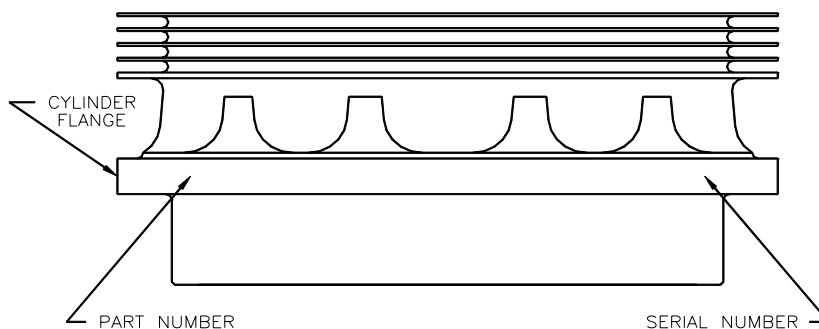


Figure 2