

»» **Service Bulletin**

FAA Approved

Number: B01-01 A

Replaces 101-001

Date: 07/08/04

Subject: Push Rod Shroud Tube Interference with Cylinder Head Cooling Fins

Engine Application: Lycoming 360 and 320 Series Engines with Superior Cylinder Stud Assembly Part Numbers SL36000W-A1, SL36000N-A1, SL32000W-A1, SL32000N-A1 and SL32000NA-A1 Manufactured in October and November of 2000.

Scope:

Some Superior cylinder assemblies for Lycoming 360 and 320 series parallel valve engines, manufactured in October and November of 2000, have excessive material on the cylinder head in the push rod shroud tube cutouts which results in interference between the shroud tubes and the cylinder head. In some cases the interference is obvious because it prevents the installation of the shroud tubes. In other cases, primarily on 320 series models, it may not be apparent. In all cases it must be corrected to allow for proper installation of the push rod shroud tubes and to eliminate any possibility that rubbing will damage the shroud tubes.

Compliance: Before further flight.

Superior Air Parts has determined the serial numbers of the suspected cylinder assemblies and is notifying customers who have purchased these particular cylinder assemblies of the necessary action to correct the cylinders. The cylinder assembly part numbers and serial numbers affected are:

SL32000W-A1: S/N's 32WL007192 through 32WL007199, 32WL007201, 32WL007202, 32WL007204 through 32WL007247, 32WL007277, 32WM007248 through 32WM007276, 32WM007278 through 32WM007285, 32WM007287

SL36000N-A1: S/N's 36NM003720 through 36NM003723, 36NM003728 through 36NM003734, 36NM003736 through 36NM003739

SL36000W-A1: S/N's 36WL006176 through 36WL006190, 36WL006192 through 36WL006195, 36WL006197 through 36WL006200, 36WL006202 through 36WL006236, 36WM006237 through 36WM6262

Serial numbers containing "L00" indicate October 2000 and "M00" indicate November 2000 production dates. The serial numbers are marked on the edge of the barrel flange on the push rod shroud tube side of the cylinder assembly (top side as installed on the engine).

It is mandatory that the following instructions be complied with to prevent the possibility of oil leakage.

CYLINDER ASSEMBLIES NOT YET INSTALLED:

It is recommended that any uninstalled cylinder assemblies falling in the above serial number series be returned to Superior for replacement. At the discretion of the operator/mechanic, the cylinders may be installed and inspected/modified in accordance with the "Cylinder Assemblies Already Installed" section below.

CYLINDER ASSEMBLIES ALREADY INSTALLED:

In the event that cylinder assemblies have already been installed, the clearance between the push rod shroud tubes and the cylinder head must be inspected to verify a minimum of .010 inches of clearance at all points. This is most easily accomplished using a .010 inch thick feeler gage, bent to fit around the back side of the push rod shroud tube. Several thinner feeler gages together equaling .010 inch thick may also be used. The .010 inch gage must pass freely up and down the Shroud tube between it and the cylinder head at all points. Any interference will occur at fin numbers 9 through 13, (counted from the bottom or barrel end of the head) toward the outside of the head on both tubes. The figures on page 3 of this Service Bulletin show the areas where interference may occur.

If interference is detected, the push rod and shroud tube must be removed and the area of interference must be ground down until proper clearance is achieved. This can be accomplished with a rotary file or sanding drum, since very little material must be removed. Use extreme care to cover all exposed parts, such as the valve lifters and the rocker box area to prevent contamination from the chips and abrasive. Do not remove more than .060 inch of material from the interfering surfaces.

A one (1) hour labor allowance per installed cylinder will be reimbursed by Superior's Warranty Department.

Compliance with this bulletin should be noted in the engine logbook.

Warning: Failure to comply with this Bulletin could result in engine damage or malfunction.

For further information please contact Superior Air Parts, Inc. Customer Service and Technical Center at 1-800-420-4727.

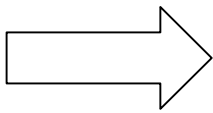


Figure 1. Exhaust Side

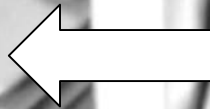
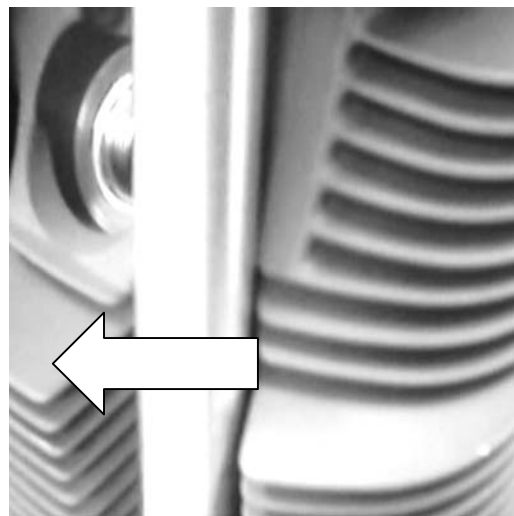


Figure 2. Intake Side