February 19, 1993

Service Instruction No. 1277A
(Supersedes Service Instruction No. 1277)
Engineering Aspects are
FAA Approved

DATE:

February 19, 1993

Subject:

Shroud Tube Retaining Components

Models Affected:

All Textron Lycoming series engines with parallel valve cylinders except O-235 and O-290.

Time of Compliance:

At any time shroud tubes are assembled.

As a product improvement, to simplify production assembly, the shroud tube attaching parts in the rocker box of the cylinder have been revised to eliminate one spring and a spacer.

The parts comprising both the new and the superseded assembly are shown in the accompanying illustration. It is important to note that the spacer, 69345 must be used with the new spring in an older cylinder, one with a five digit part number not preceded by "LW".

During assembly of the new spring, make sure the tangs on the sides of the lockplate fit over the spring and that the oval end of the lockplate is bent up over the flat of the nut.

Figure 1. Detail of Rocker Box Showing Difference and Assembly of Shroud Tube Retaining Components
CAUTION

As shown in Figure 2, there are three types of shroud tubes used on Textron Lycoming engines. Only the seamless aluminum shroud tube with large inside diameter at rocker box end can be used with the new retaining spring LW-14995. If the engine is equipped with either the seamless aluminum tubes with large welded end or plastic shroud tubes, they must be replaced with seamless aluminum shroud tubes, as indicated in the following chart.

<table>
<thead>
<tr>
<th>Engines With Parallel Valve Cylinder</th>
<th>Use Push Rod Shroud Tube No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>O-320, IO-320, LIO-320, AIO-320</td>
<td>68987</td>
</tr>
<tr>
<td>O-340</td>
<td>69539</td>
</tr>
</tbody>
</table>

THESE TUBES CANNOT BE USED WITH NEW SHROUD TUBE RETAINING COMPONENTS. DO NOT REUSE.

Figure 2. Showing Difference of Shroud Tube at Rocker Box End

NOTE: Revision ‘A’ adds new spring P/N LW-14995.

19467 — This number for Textron Lycoming reference only.