DATE: May 5, 2006  Service Instruction No. 1105B
(Supersedes Service Instruction No. 1105A)

SUBJECT: Periodic Inspection of Generator/Alternator Mounting Brackets

MODELS AFFECTED: All Lycoming four cylinder direct drive aircraft engines except those with the
Lycoming P/N 73383 lock plate.

TIME OF COMPLIANCE: During 100-hour inspection periods.

On certain older four cylinder model engines, either the generator or alternator is mounted to the
 crankcase using the crankcase perimeter bolts. See Figure 1. On later versions of those four cylinder model
 engines, either the generator or alternator is mounted to the crankcase using an assembly that includes the
 P/N 73383 lock plate. This assembly mounts either the generator or alternator through a mounting pad on
 the crankcase rather than by the crankcase perimeter bolts. See Figure 2.

For those engines where generators or alternators are mounted by the crankcase perimeter bolts, service
 experience has shown that looseness of the generator or alternator mounting bracket could result in a
 cracked crankcase. Therefore, it is recommended that the crankcase perimeter bolts as shown in Figure 1,
 attaching either the generator or alternator mounting bracket to the crankcase be checked for tightness
during 100-hour inspection periods to insure that the torque value is maintained. Check the latest revision of
the Table of Limits for the correct torque value.

Engines that have the generator or alternator bracket attached to the crankcase at the mounting pad as
shown in Figure 2, and use the P/N 73383 lock plate do not need to comply with this Service Instruction.

NOTE

The illustrations shown in this Service Instruction are typical of the subject matter they
portray; in no instance are they to be interpreted as examples of any specific engine.

NOTE: Revision “B” revises text and adds Figure 1 and Figure 2.
CHECK FOR TIGHTNESS EVERY 100 HOURS AND TIGHTEN PER RECOMMENDED TORQUE VALUE.

ENGINES THAT USE THE P/N 73383 LOCKPLATE ASSEMBLY AS SHOWN DO NOT NEED TO COMPLY WITH THIS SERVICE INSTRUCTION.

P/N 73383 LOCKPLATE.