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SERVICE INSTRUCTION

DATE: October 27, 2003

Service Instruction No. 1489B
(Supersedes Service Instruction No. 1489A)

SUBJECT: Fuel Manifold Spring Change

MODELS AFFECTED: IO-360-L2A model engines installed in Cessna 172R and 172S aircraft; IO-540-AB1A5 model engines installed in Cessna 182 aircraft; IO-540-AC1A5 model engines installed in Cessna 206 aircraft; TIO-540-AJ1A model engines installed in Cessna T206 aircraft with a 2psi fuel flow divider spring (with detail P/N 2576532-1 or 2576556-1 marked on top of cover).

TIME OF COMPLIANCE: At owner's discretion.

To improve idle characteristics, especially in hot weather, a 2psi flow divider spring may be replaced with a new 4psi spring, Precision P/N 2577011 in IO-360-L2A, IO-540-AB1A5, IO-540-AC1A5 and TIO-540-AJ1A model engines.

The replacement of the spring is accomplished as follows:

1. Remove the top cowling.
2. Access the flow divider cover. If the divider is installed "cap down" it will have to be removed from the engine.
3. Remove the safety wire and the four screws securing the top of the flow divider.
4. Carefully remove the cover of the flow divider, using care not to damage the diaphragm. The diaphragm should not be removed from the body, and care should be taken not to allow the diaphragm to rotate in the body.
5. Remove the spring above the diaphragm and discard it.
6. Install the new Precision P/N 2577011 spring on top of the diaphragm insuring that it is seated in the metal cup on top of the diaphragm.
7. Reinstall the cover and torque the four screws to 20-30 in.-lbs. Retighten after 20 minutes. Insure the cover is reinstalled in the same position it was removed.
8. To show that the new 4psi spring has been installed, vibropeen "4psi" next to the Precision part number on the cover of the flow divider.
9. Lockwire the four cover screws with a single strand of .025" lockwire. Wire must pull screws clockwise and be twisted only at the ends.
10. Start the engine and warm it up to operating temperatures.
11. Check the idle speed and mixture and reset to the Cessna specified values if necessary.
12. Enter compliance in the airframe and/or maintenance records as required.