



SERVICE LETTER

No. 665A

Piper Aircraft Corporation

Lock Haven, Pennsylvania, U.S.A.

"FAA DOA SO-1 Approved"

October 24, 1973 S/M

(Voids and supersedes Service Letter No. 665, dated July 6, 1973)

Reason for Revision:

Refer to Lycoming Service Instruction No. 1280A (NOTE on bottom of page), reproduced on reverse side.

Subject:

Rotator Type Intake Valves -- reference Lycoming Service Instruction No. 1280A dated September 28, 1973, reproduced on reverse side.

Models Affected:

PA-28R-200 Cherokee Arrow
PA-32-300 Cherokee Six
PA-34-200 Seneca

Serial Numbers Affected:

Refer to Lycoming Service Instruction No. 1280A, Models Affected section, reproduced on reverse side.

PA-24-400 Comanche

PA-31 and PA-31-300 Navajo

PA-31-350 Navajo Chieftain

Compliance Time:

Refer to Lycoming Service Instruction No. 1280A, Time of Compliance section, reproduced on reverse side.

Purpose:

To provide distribution of Lycoming Service Instruction No. 1280A dated September 28, 1973, reproduced on reverse side.

Balance of Service Letter format not applicable; refer to Lycoming Service Instruction No. 1280A (reproduced on reverse side) for information relative to applicable modification material, material price and availability, etc.

AVCO LYCOMING DIVISION

WILLIAMSPORT, PENNSYLVANIA 17701

Service Instruction



DATE: September 28, 1973

Service Instruction No. 1280A
(Supersedes Service Instruction No. 1280)
Engineering Aspects are
FAA (DEER) Approved

SUBJECT: Rotator Type Intake Valves

MODELS AFFECTED: All Avco Lycoming engines built with the conventional, large head intake valve no. 73117: IO-360-A, -C, -D; AIO-360-A, -B; HIO-360-A, -C; LIO-360, TIO-360-A; IO-540-A, -B, -E, -G, -K, -L, -M, -P, -S; TIO-540-A, -F, -J, -N; LTIO-540-F, -J, -N; IO-720-A, -B, -C; VO, IVO, TVO, TIVO-540; IGO, IGSO-540. Engines modified in accordance with factory approval no. 2158 to incorporate rotator intake valves are not subject to the modification described herein.

TIME OF COMPLIANCE: Anytime at owners discretion. NOTE: - The intake valve modification described in Service Instruction No. 1262A is not related to this modification. Engines which have had the small intake valve installed as described in Service Instruction No. 1262A should not be changed to incorporate rotator intake valves as herein described.

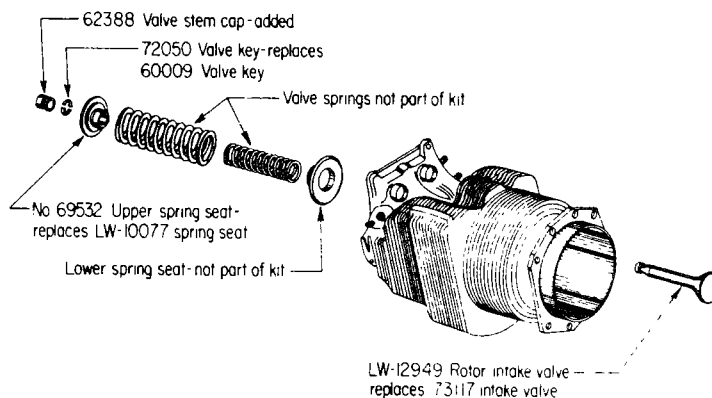
In order to improve valve seating and minimize compression loss at the intake valve seat, a new intake valve, incorporating a rotator cap is available for installation in applicable aircraft engines now in service. This rotator valve, LW-12949 and its associated parts replace the conventional intake valve, 73117 that has been used in these engines.

Owners and operators who have experienced problems associated with intake valve leakage are advised to install the rotator intake valve kit. These kits are available from Avco Lycoming distributors at the special price of \$12.00 each until June 1974.

PARTS DATA:

Kit No. LW-13292, Rotator Valve Replacement for one cylinder consists of:

| | |
|----------------|---|
| 1 no. LW-12949 | Intake Valve (replaces 73117 intake valve) |
| 1 no. 69532 | Upper Spring Seat (replaces LW-10077 spring seat) |
| 2 no. 72050 | Valve Key (replaces 60009 valve key) |
| 1 no. 62388 | Valve Stem Cap (added part) |



Rotator Intake Valve Components

NOTE: Revision "A" includes additional models; adds note on compliance.



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