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SERVICE INSTRUCTION

DATE: July 20, 2021

Service Instruction No. 1280D
(Supersedes Service Instruction No. 1280C)
Engineering Aspects are FAA Approved

SUBJECT: Rotator Type Intake Valves

MODELS AFFECTED: All Lycoming engines built with the conventional, large head intake valve No. 73117 including: IO-360-A, -C, -D; AIO-360-A, -B; HIO-360-A, -C; LIO-360, TIO-360-A, IO-720-A, -B, -C; VO, IVO, TVO, TIVO-540; IGO, IGSO-540, IO-540-A,B,E,G,K,L,M,P,S; TIO-540-A,F,J,N and LTIO-540-F,J,N. Engines modified in accordance with factory approval no. 2158 to incorporate rotator intake valves are not subject to the modification described herein. In addition to the engines mentioned above, all O-360-J2A and O-540-F1B5 engines are eligible for rotator type intake valves.

TIME OF COMPLIANCE: At owners discretion

REASON FOR REVISION: Added engine models O-360-J2A and O-540-F1B5. Updated publication format and part numbers. Added IO-540 and (L)TIO-540 models back into Models Affected that were omitted from prior revision.

NOTICE: Incomplete review of all the information in this document can cause errors. Read the entire Service Instruction to make sure you have a complete understanding of the requirements.

CAUTION: Although rotator intake valves are specified for use in models HIO-360-A and -C, valve tip failure can occur if the engine is subjected to over speed; in no event are these valves to be installed in HIO-360-DIA engines.

CAUTION: The intake valve modification described in SI 1262A is not related to this modification. Engines which have had the small intake valve installed as described in SI 1262A are not to 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. The specific kits contain all the needed replacement parts.

If you have any questions, contact Lycoming Technical Support by phone at 570-327-7222 or 877-839-7878 or email to Technicalsupport@lycoming.com.



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IO-360-A, -C, -D; AIO-360-A, -B; HIO-360-A, -C;
 LIO-360, TIO-360-A, IO-720-A, -B, -C; VO, IVO,
 TVO, TIVO-540; IGO, IGSO-540, IO-540-
 A,B,E,G,K,L,M,P,S; TIO-540-A,F,J,N and LTIO-
 540-F,J,N

O-360-J2A and O-540-F1B5

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

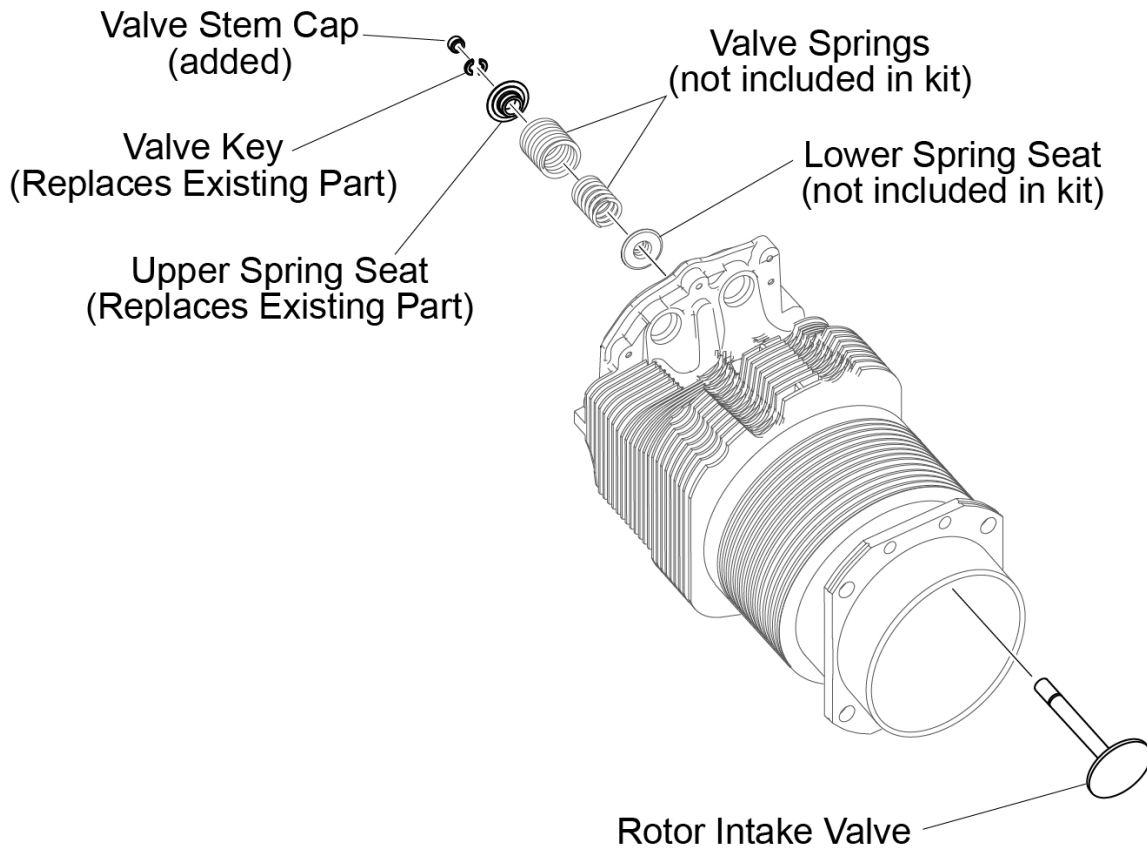
Part Quantity

1	17A23943	Intake Valve
1	69532	Upper Spring Seat
2	72050	Valve Key
1	62388	Valve Stem Cap

Kit No. 05K29641 Rotator Valve Replacement for one
 cylinder consists of

Part Quantity

1	17A29467	Intake Valve
1	69532	Upper Spring Seat
2	72050	Valve Key
1	62388	Valve Stem Cap



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