



Service Instruction

ENGINE COMPONENTS, INC.

S.I. No.: 03-9

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Title: PISTONS AND RINGS FOR FRANKLIN ENGINES

Issued: 03/31/04

Revision: 0

Technical Portions are FAA DER Approved.

1.0 SUBJECT: Continuing Airworthiness Data, Piston Rings for Franklin Engines.

2.0 APPROVAL BASIS: FAA Approved Drawings and FAA PMA under Airmotive Engineering Corp., a subsidiary of Engine Components, Inc. Supplement No. 33 is dated April 20, 2000.

3.0 INSTALLATION ELIGIBILITY: The installation eligibility for the piston rings is established in the PMA Supplement and updated herein for the 150, 165 and 180 HP engines as acknowledged by the Southwest Region ACO, and approved herein in accordance with FAR Part 183.

Note: The AEF19421, AEF18762 and AEF19893 rings are usable on the 6A4-150, 6A4-165 and 6A-335 engines when used with Franklin 17554 pistons, or when using properly altered Franklin 19370 (or AEF19370) pistons.

Part Number	Part Description	Installation Eligibility
AEF19421	Ring, Chrome, Top Compression	6AS-335-A, B 6V-335-A, A1A, A1B, B 6V4-200-C32, C33 6VS-335-A, A1, B, B1 with alteration: 6A-335-B, B1, B1A 6A4-150-B3, B4, B31 6A4-165-B3, B4, B6
AEF18762	Ring, Compression	6A-335-B, B1, B1A 6A4-150-B3, B4, B31 6A4-165-B3, B4, B6 6AS-335-A, B 6V-335-A, A1A, A1B, B 6V4-200-C32, C33 6VS-335-A, A1, B, B1
AEF19893	Ring, Oil Control	6AS-335-A, B 6V-335-A, A1A, A1B, B 6V4-200-C32, C33 6VS-335-A, A1, B, B1 with alteration: 6A-335-B, B1, B1A 6A4-150-B3, B4, B31 6A4-165-B3, B4, B6
AEF19370	Piston, 4.50 Bore, 8.5:1	6V-335-A, A1A, A1B, B 6V4-200-C32, C33 with alteration: 6A-335-B, B1, B1A 6A4-150-B3, B4, B31 6A4-165-B3, B4, B6



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The illustration at the right shows the manner that AEF19370 pistons are altered for use in the 6A4-150, 6A4-165 and 6A-335 engines. Note, this is a major alteration, and the airplane must be returned to service with an FAA Form 337 approving the alteration.

NOTE: Altered pistons should be remarked AEF19370-A with permanent ink on dome.

