

**FAA - PARTS MANUFACTURER APPROVAL (PMA) SUPPLEMENT**

**AIRMOTIVE ENGINEERING CORP.**  
**9503 Middlex**  
**San Antonio, Texas 78217**

**PMA No. PQ0003SW**  
**Supplement No. 43**  
**Revision No.**  
**Date MAY 23 2002**  
**ACO Project No. PM6688SC-E**

<b>PART NAME</b>	<b>PART NUMBER</b>	<b>APPROVED REPLACEMENT FOR PART NUMBER</b>	<b>APPROVAL BASIS AND APPROVED DESIGN DATA</b>	<b>MAKE ELIGIBILITY</b>	<b>MODEL ELIGIBILITY</b>
Piston, 4.500 Cyl. Bore	AEF19370	Franklin P/N 19370	Test and Computations per 14 CFR § 21.303. Dwg: AEF19370 Rev. IR Dated: 3-19-01 or later FAA approved revisions.	Franklin Engine Co., Inc.	6V4-200-C32, C33 6V-335-A, B
Piston, 4.625 Cyl. Bore	AEF20736	Franklin P/N 20736	Test and Computations per 14 CFR § 21.303. Dwg: AEF20736 Rev. IR Dated: 5-1-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6A-350-C1, C1A, C2, C2A 6AS-350-A,A1
Liner, Cylinder	AEF17518	Franklin P/N 17518	Test and Computations per 14 CFR § 21.303. Dwg: AEF17518 Rev. IR Dated: 12-15-00 or later FAA approved revisions	Franklin Engine Co., Inc	6A4-150-B3, B4 6A4-165-B3, B4 6V-200 6A-335-B, B1, B1A

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PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS AND APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY
Liner, Cylinder	AEF20544	Franklin P/N 20544	Test and Computations per 14 CFR § 21.303. Dwg: AEF20544 Rev. IR Dated: 12-15-00 or later FAA approved revisions	Franklin Engine Co., Inc	2A-120-A, B, C, D 6V4-200-C32, C33 4A-235-B, B2, B3, B4, B6 6A4-150-B3, B4 6A4-165-B3, B4 6A-350-C1, C1A, C2, C2A, D1A, D1B 6AS-350-A, A1 6V-350-A, B
Absorber, Magneto Drive	AEF19313	Franklin P/N 19313	Test and Computations per 14 CFR § 21.303. Dwg: AEF19313 Rev. IR Dated: 5-8-01 or later FAA approved revisions	Franklin Engine Co., Inc.	2A-120-A, B, C, D 6V4-200-C32, C33 4A-235-B, B2, B3, B4, B6 6A4-150-B3, B4 6A4-165-B3, B4 6A-335-B, B1, B1A 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-A1, B1 6A-350-C1, C1A, C2, C2A, D1A, D1B 6AS-350-A, A1 6V-350-A, B
Absorber, Generator Gear	AEF19314	Franklin P/N 19314	Test and Computations per 14 CFR § 21.303. Dwg: AEF19314 Rev. IR Dated: 3-7-01 or later FAA approved revisions	Franklin Engine Co., Inc.	2A-120-A, B, C, D 6V4-200-C32, C33 4A-235-B, B2, B3, B4, B6 6A-150-B3, B4 6A-165-B3, B4 6A-335-B, B1, B1A 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-A1, B1 6A-350-C1, C1A, C2, C2A, D1A, D1B 6AS-350-A, A1 6V-350-A, B

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Absorber, Gear	AEF19756	Franklin P/N 19756	Test and Computations per 14 CFR § 21.303. Dwg: AEF19756 Rev. IR Dated: 5-8-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6AS-335-A 6V-335—A1B 6VS-335-B1 6A-350-D1A, D1B 6V-350-B
Ring, Compression	AEF20552	Franklin P/N 20552	Test and Computations per 14 CFR § 21.303. Dwg: AEF20552 Rev. A Dated: 5-16-01 or later FAA approved revisions	Franklin Engine Co., Inc.	2A-120-A, B, C, D 6V4-200-C32, C33 6A-350-C1, C1A, C2, C2A, D1A, D1B 6AS-350-A, A1 6V-350-A, B
Ring, Compression	AEF20735	Franklin P/N 20735	Test and Computations per 14 CFR § 21.303. Dwg: AEF20735 Rev. B Dated: 5-16-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6A-350-C1, C1A, C2, C2A 6AS-350-A, A1
Ring, Oil Control	AEF20553	Franklin P/N 20553	Test and Computations per 14 CFR § 21.303. Dwg: AEF20553 Rev. B Dated: 5-16-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6A-350-C1, C1A, C2, C2A, D1A, D1B 6AS-350-A, A1 6V-350-A, B

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PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS AND APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY
Bearing, Camshaft	AEF17707	Franklin P/N 17707	Test and Computations per 14 CFR § 21.303. Dwg: AEF17707 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	4A-235-B, B2, B4 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-A1, B1 6A-350-C1, C1A, C2, C2A, D1A, D1B 6AS-350-A, A1 6V-350-A, B
Bearing, Camshaft	AEF17708	Franklin P/N 17708	Test and Computations per 14 CFR § 21.303. Dwg: AEF17708 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	4A-235-B, B2, B4 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-A1, B1 6A-350-C1, C1A, C2, C2A, D1A, D1B 6AS-350-A, A1 6V-350-A, B
Bearing, Crankshaft Cent. Cyl. Odd Nos.	AEF17719	Franklin P/N 17719	Test and Computations per 14 CFR § 21.303. Dwg: AEF17719 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6A-150-B3, B4 6A-165-B3, B4 4A235-B, B2, B3, B4, B6 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-335-A1, B1 6V4-200 6A-350-C1, C1A, C2, C2A, D1A, D1F 6AS-350-A, A1 6V-350-A, B
Bearing, Crankshaft Center Even Cyl. Nos.	AEF17720	Franklin P/N 17720	Test and Computations per 14 CFR § 21.303. Dwg: AEF17720 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6A-150-B3, B4 6A-165-B3, B4 4A235-B, B2, B3, B4, B6 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-335-A1, B1 6V4-200 6A-350-C1, C1A, C2, C2A, D1A, D1F

PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS AND APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY
Bearing, Crankshaft Gear End, Odd Cyl. Nos.	AEF17721	Franklin P/N 17721	Test and Computations per 14 CFR § 21.303. Dwg: AEF17721 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6AS-350-A, A1 6V-350-A, B  2A-120-A, B, C, D 6A-150-B3, B4 6A-165-B3, B4 4A235-B, B2, B3, B4, B6 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-335-A1, B1 6V4-200 6A-350-C1, C1A, C2, C2A, D1A, D1F 6AS-350-A, A1 6V-350-A, B
Bearing, Crankshaft Gear End, Even Nos.	AEF17722	Franklin P/N 17722	Test and Computations per 14 CFR § 21.303. Dwg: AEF17722 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	2A-120-A, B, C, D 6A-150-B3, B4 6A-165-B3, B4 4A235-B, B2, B3, B4, B6 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-335-A1, B1 6V4-200 6A-350-C1, C1A, C2, C2A, D1A, D1F 6AS-350-A, A1 6V-350-A, B
Bearing, Crankshaft Prop End, Odd Nos.	AEF17723	Franklin P/N 17723	Test and Computations per 14 CFR § 21.303. Dwg: AEF17723 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6A4-150-B3, B4 6A4-165-B3, B4 6A-335, -A, B 6A-350-C1, C1A, C2, C2A 6AS-350-A, A1

PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS AND APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY
Bearing, Crankshaft Prop End, Even Nos	AEF17724	Franklin P/N 17724	Test and Computations per 14 CFR § 21.303. Dwg: AEF17724 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6A4-150-B3, B4 6A4-165-B3, B4 6A-335, -A, B 6A-350-C1, C1A, C2, C2A 6AS-350-A, A1
Bearing, Connecting Rod	AEF17739	Franklin P/N 17739	Test and Computations per 14 CFR § 21.303. Dwg: AEF17739 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	2A-120-A, B, C, D 6V4-200-C32, C33 4A-235-B, B2, B3, B4, B6 6A4-150-B3, B4 6A4-165-B3, B4 6A-335-B, B1, B1A 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-A1, B1 6A-350-C1, C1A, C2, C2A, D1A, D1B 6AS-350-A, A1 6V-350-A, B
Bearing, Thrust	AEF17808	Franklin P/N 17808	Test and Computations per 14 CFR § 21.303. Dwg: AEF17808 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	4A-235-B, B2, B4 6A4-150-B3, B4 6A4-165-B3, B4 6A-335-B, B1 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-A1, B1 6A-350-C1, C1A, C2, C2A, D1A, D1B 6AS-350-A, A1 6V-350-A, B
Bearing, Crankshaft-Prop End Odd Nos.	AEF17875	Franklin P/N17875	Test and Computations per 14 CFR § 21.303. Dwg: AEF17875 Rev. IR	Franklin Engine Co., Inc.	6AS-335-A, B 6V-335-A1A, A1B 6VS-335-A1, B1 6A-350-C1, C1A, C2, C2A, D1A, D1B

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			Dated: 5-18-01 or later FAA approved revisions		6AS-350-A, A1 6V-350-A, B
Bearing, Crankshaft-Prop End Even Nos.	AEF17876	Franklin P/N 17876	Test and Computations per 14 CFR § 21.303. Dwg: AEF17876 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6AS-335-A, B 6V-335-A1A, A1B 6VS-335-A1, B1 6A-350-C1, C1A, C2, C2A, D1A, D1B 6AS-350-A, A1 6V-350-A, B
Bearing, Connecting Rod, .010 U.S.	AEF18020	Franklin P/N 18020	Test and Computations per 14 CFR § 21.303. Dwg: AEF18020 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	2A-120-A, B, C, D 6V4-200-C32, C33 4A-235-B, B2, B3, B4, B6 6A4-150-B3, B4 6A4-165-B3, B4 6A-335-B, B1, B1A 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-A1, B1 6A-350-C1, C1A, C2, C2A, D1A, D1B 6AS-350-A, A1 6V-350-A, B
Bearing, Connecting Rod, .020 U.S.	AEF18021	Franklin P/N 18021	Test and Computations per 14 CFR § 21.303. Dwg: AEF18021 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	2A-120-A, B, C, D 6V4-200-C32, C33 4A-235-B, B2, B3, B4, B6 6A4-150-B3, B4 6A4-165-B3, B4 6A-335-B, B1, B1A 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-A1, B1 6A-350-C1, C1A, C2, C2A, D1A, D1B 6AS-350-A, A1

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					6V-350-A, B
Bearing, Crankshaft Prop End, Odd Nos.  (.010 U.S.)	AEF18022	Franklin P/N 18022	Test and Computations per 14 CFR § 21.303. Dwg: AEF18022 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6A4-150 6A4-165 6A-335, -A, B 6A-350-C1, C1A, C2, C2A 6AS-350-A, A1
Bearing, Crankshaft Prop End, Odd Nos.  (.20 U.S.)	AEF18023	Franklin P/N 18023	Test and Computations per 14 CFR § 21.303. Dwg: AEF18023 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6A4-150 6A4-165 6A-335, -A, B 6A-350-C1, C1A, C2, C2A 6AS-350-A, A1
Bearing, Crankshaft Prop End, Even Nos.  (.010 U.S.)	AEF18024	Franklin P/N 18024	Test and Computations per 14 CFR § 21.303. Dwg: AEF18024 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6A4-150-B3, B4 6A4-165-B3, B4 6A-335, -A, B 6A-350-C1, C1A, C2, C2A 6AS-350-A, A1
Bearing, Crankshaft Prop End, Even Nos.  (.020 U.S.)	AEF18025	Franklin P/N 18025	Test and Computations per 14 CFR § 21.303. Dwg: AEF18025 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6A4-150-B3, B4 6A4-165-B3, B4 6A-335, -A, B 6A-350-C1, C1A, C2, C2A 6AS-350-A, A1
Bearing, Crankshaft Cent. Cyl. Odd Nos.	AEF18026	Franklin P/N 18026	Test and Computations per 14 CFR § 21.303. Dwg: AEF18026 Rev. IR Dated: 5-18-01	Franklin Engine Co., Inc.	6A-150-B3, B4 6A-165-B3, B4 4A235-B, B2, B3, B4, B6 6AS-335-A, B 6V-335-A1A, A1B

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(.010 US)			or later FAA approved revisions		6VS-335-335-A1, B1 6V4-200 6A-350-C1, C1A, C2, C2A, D1A, D1F 6AS-350-A, A1 6V-350-A, B
Bearing Crankshaft Cent. Cyl. Odd Nos.	AEF18027	Franklin P/N 18027	Test and Computations per 14 CFR § 21.303. Dwg: AEF18027 Rev. IR, 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6A-150-B3, B4 6A-165-B3, B4 4A235-B, B2, B3, B4, B6 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-335-A1, B1 6V4-200 6A-350-C1, C1A, C2, C2A, D1A, D1F 6AS-350-A, A1 6V-350-A, B
(.020 OS)					
Bearing, Crankshaft, Center Even Cyl.	AEF18028	Franklin P/N 18028	Test and Computations per 14 CFR § 21.303. Dwg: AEF18028 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	2A-120-A, B, C, D 6A-150-B3, B4 6A-165-B3, B4 4A235-B, B2, B3, B4, B6 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-335-A1, B1 6V4-200 6A-350-C1, C1A, C2, C2A, D1A, D1F 6AS-350-A, A1
(.010 OS)					

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Bearing, Crankshaft, Center Even Cyl.  (.020 OS)	AEF18029	Franklin P/N 18029	Test and Computations per 14 CFR § 21.303. Dwg: AEF18029 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	2A-120-A, B, C, D 6A-150-B3, B4 6A-165-B3, B4 4A235-B, B2, B3, B4, B6 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-335-A1, B1 6V4-200 6A-350-C1, C1A, C2, C2A, D1A, D1F 6AS-350-A, A1
Bearing, Crankshaft, Gear End, Odd Cyl. Nos.  (.010 OS)	AEF18030	Franklin P/N 18030	Test and Computations per 14 CFR § 21.303. Dwg: AEF18030 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	2A-120-A, B, C, D 6A-150-B3, B4 6A-165-B3, B4 4A235-B, B2, B3, B4, B6 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-335-A1, B1 6V4-200 6A-350-C1, C1A, C2, C2A, D1A, D1F 6AS-350-A, A1
Bearing, Crankshaft, Gear End, Odd Cyl. Nos.  (.020 OS)	AEF18031	Franklin P/N 18031	Test and Computations per 14 CFR § 21.303. Dwg: AEF18031 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	2A-120-A, B, C, D 6A-150-B3, B4 6A-165-B3, B4 4A235-B, B2, B3, B4, B6 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-335-A1, B1 6V4-200 6A-350-C1, C1A, C2, C2A, D1A, D1F 6AS-350-A, A1

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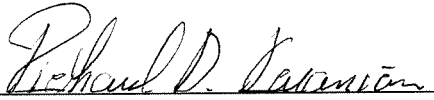
PART NAME	PART NUMBER	APPROVED REPLACEMENT FOR PART NUMBER	APPROVAL BASIS AND APPROVED DESIGN DATA	MAKE ELIGIBILITY	MODEL ELIGIBILITY
Bearing, Crankshaft Gear End, Even Nos. (.010 OS)	AEF18032	Franklin P/N 18032	Test and Computations per 14 CFR § 21.303. Dwg: AEF18032 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	2A-120-A, B, C, D 6A-150-B3, B4 6A-165-B3, B4 4A235-B, B2, B3, B4, B6 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-335-A1, B1 6V4-200 6A-350-C1, C1A, C2, C2A, D1A, D1F 6AS-350-A, A1
Bearing, Crankshaft Gear End, Even Nos. (.020 OS)	AEF18033	Franklin P/N 18033	Test and Computations per 14 CFR § 21.303. Dwg: AEF18033 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	2A-120-A, B, C, D 6A-150-B3, B4 6A-165-B3, B4 4A235-B, B2, B3, B4, B6 6AS-335-A, B 6V-335-A1A, A1B 6VS-335-335-A1, B1 6V4-200 6A-350-C1, C1A, C2, C2A, D1A, D1F 6AS-350-A, A1
Bearing, Crankshaft Prop End, Even Nos. (.010 OS)	AEF18562	Franklin P/N 18562	Test and Computations per 14 CFR § 21.303. Dwg: AEF18562 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6AS-335-A, B 6V-335-A1A, A1B 6VS-335-A1, B1 6A-350-C1, C1A, C2, C2A, D1A, D1B 6AS-350-A, A1 6V-350-A, B

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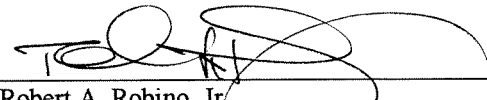
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Bearing, Crankshaft Prop End, Odd Nos. (.010 OS)	AEF18563	Franklin P/N 18563	Test and Computations per 14 CFR § 21.303. Dwg: AEF18563 Rev. IR Dated: 5-18-01 or later FAA approved revisions	Franklin Engine Co., Inc.	6AS-335-A, B 6V-335-A1A, A1B 6VS-335-A1, B1 6A-350-C1, C1A, C2, C2A, D1A, D1B 6AS-350-A, A1 6V-350-A, B

-----End of Listing-----

NOTE: Minor design changes (reference 14 CFR part 21 §§ 21.93 and 21.95) must be submitted in a manner as determined by the ACO. Major design changes (reference 14 CFR part 21 §§ 21.93 and 21.97) to drawings and specifications are to be handled in the same manner as that for an original FAA-PMA.

  
 Richard D. Karanian  
 Project Engineer, Special Certification Office,  
 ASW-190

03/08/02  
 Date

  
 Robert A. Robino, Jr.  
 Manager, Manufacturing Inspection District Office,  
 SW MIDO-43

5-23-02  
 Date

This Supplement is an attachment to your FAA-PMA approval letter dated: 3-31-83