



## PMA Supplements Index:

ARTICLE NUMBER	ARTICLE NAME	PMA SUPP.	DATE ISSUED
DEC31-160-503	SHAFT ASSY, FLEXIBLE	TK48	JAN 28, 1999
DEC31-160-505		TK58R	MARCH 18, 2002
DEC31-160-509			
DEC31-160-511		TK987	MARCH 31, 2016



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Manufacturing Inspection District Office, ANE-MIDO-41

**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL**

Turbine Kinetics, Inc.  
 A HEICO Aerospace Company  
 60 Sequin Drive  
 Glastonbury, CT 06033

PMA NO. PQ0816NE  
 SUPPLEMENT NO. 987  
 DATE: March 15, 2016

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Gearshaft, Spur	DEC31-014-501	362849-2	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-014 <u>Rev:</u> C <u>Date:</u> 09/16/03 or later FAA-approved revisions.	Boeing	747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series, 747-8F Series, 747-8 Series, 767-200 Series, 767-300 Series, 767-300F Series, 767-400ER Series, DC-10-10, DC-10-40, DC-10-30, DC-10-30F (KC-10A, KDC-10), DC-10-10F, DC-10-40F, DC-10-15, MD-11, MD-11F
Shaft, Drive-Oil Pump	DEC31-026-501	969292-1	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-026 <u>Rev:</u> B <u>Date:</u> 10/16/02 or later FAA-approved revisions.	Boeing	707-100 Long Body, 707-200, 707-100B Long Body, 707-100B Short Body, 707-300 Series,



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Manufacturing Inspection District Office, ANE-MIDO-41

**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL**

Turbine Kinetics, Inc.  
A HEICO Aerospace Company  
60 Sequin Drive  
Glastonbury, CT 06033

PMA NO. PQ0816NE  
SUPPLEMENT NO. 987  
DATE: March 15, 2016

					707-400 Series, 707-300B Series, 707-300C Series, 727 Series, 727-100 Series, 727C Series, 727-100C Series, 727-200 Series, 727-200F Series, 737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 737-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, DC-8-11, DC-8-12, DC-8-21, DC-8-31, DC-8-32, DC-8-33, DC-8-41, DC-8-42, DC-8-43, DC-8-51, DC-8-52, DC-8-53, DC-8F-54, DC-8F-55, DC-8-55, DC-8-61, DC-8-61F, DC-8-62, DC-8-62F, DC-8-63,
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Manufacturing Inspection District Office, ANE-MIDO-41

**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL**

Turbine Kinetics, Inc.  
A HEICO Aerospace Company  
60 Sequin Drive  
Glastonbury, CT 06033

PMA NO. PQ0816NE  
SUPPLEMENT NO. 987  
DATE: March 15, 2016

					DC-8-63F, DC-8-71, DC-8-71F, DC-8-72, DC-8-72F, DC-8-73, DC-8-73F, DC-9-11, DC-9-12, DC-9-13, DC-9-14, DC-9-15, DC-9-15F, DC-9-21, DC-9-31, DC-9-32, DC-9-32 (VC-9C), DC-9-32F, DC-9-32F (C-9A, C-9B), DC-9-33F, DC-9-34, DC-9-34F, DC-9-41, DC-9-51, DC-9-81 (MD-81), DC-9-82 (MD-82), DC-9-83 (MD-83), DC-9-87 (MD-87), MD-88, 1-11 200 series, 1-11 400 series
				British Aerospace	



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Manufacturing Inspection District Office, ANE-MIDO-41

**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL**

Turbine Kinetics, Inc.  
 A HEICO Aerospace Company  
 60 Sequin Drive  
 Glastonbury, CT 06033

PMA NO. PQ0816NE  
 SUPPLEMENT NO. 987  
 DATE: March 15, 2016

Shaft, Drive, Fuel Pump	DEC31- 027-505	3603685-3	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC31-027 <u>Rev:</u> A <u>Date:</u> 02/16/12 or later FAA-approved revisions.	Boeing	707-100 Long Body, 707-200, 707-100B Long Body, 707-100B Short Body, 707-300 Series, 707-400 Series, 707-300B Series, 707-300C Series, 727 Series, 727-100 Series, 727C Series, 727-100C Series, 727-200 Series, 727-200F Series, 737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 737-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, DC-8-11, DC-8-12, DC-8-21, DC-8-31, DC-8-32, DC-8-33, DC-8-41, DC-8-42, DC-8-43, DC-8-51, DC-8-52, DC-8-53,
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Manufacturing Inspection District Office, ANE-MIDO-41

**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL**

Turbine Kinetics, Inc.  
A HEICO Aerospace Company  
60 Sequin Drive  
Glastonbury, CT 06033

PMA NO. PQ0816NE  
SUPPLEMENT NO. 987  
DATE: March 15, 2016

					DC-8F-54, DC-8F-55, DC-8-55, DC-8-61, DC-8-61F, DC-8-62, DC-8-62F, DC-8-63, DC-8-63F, DC-8-71, DC-8-71F, DC-8-72, DC-8-72F, DC-8-73, DC-8-73F, DC-9-11, DC-9-12, DC-9-13, DC-9-14, DC-9-15, DC-9-15F, DC-9-21, DC-9-31, DC-9-32, DC-9-32 (VC-9C), DC-9-32F, DC-9-32F (C-9A, C-9B), DC-9-33F, DC-9-34, DC-9-34F, DC-9-41, DC-9-51, DC-9-81 (MD-81), DC-9-82 (MD-82), DC-9-83 (MD-83), DC-9-87 (MD-87),
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Manufacturing Inspection District Office, ANE-MIDO-41

**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL**

Turbine Kinetics, Inc.  
 A HEICO Aerospace Company  
 60 Sequin Drive  
 Glastonbury, CT 06033

PMA NO. PQ0816NE  
 SUPPLEMENT NO. 987  
 DATE: March 15, 2016

				British Aerospace	MD-88, 1-11 200 series, 1-11 400 series
Gear, Spur, Internal	DEC31- 032-501	362846-2	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-032 <u>Rev:</u> C <u>Date:</u> 01/23/08 or later FAA-approved revisions.	Boeing	747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series, 747-8F Series, 747-8 Series, 767-200 Series, 767-300 Series, 767-300F Series, 767-400ER Series, DC-10-10, DC-10-40, DC-10-30, DC-10-30F (KC-10A, KDC- 10), DC-10-10F, DC-10-40F, DC-10-15, MD-11, MD-11F, <u>A300</u> A300, Model B2-1A, A300, Model B2-1C, A300, Model B4-2C A300, Model
				Airbus	



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Turbine Kinetics, Inc.  
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 60 Sequin Drive  
 Glastonbury, CT 06033

PMA NO. PQ0816NE  
 SUPPLEMENT NO. 987  
 DATE: March 15, 2016

				Lockheed	B2K-3C, A300, Model B4-103, A300, Model B2-203, A300, Model B4-203, L-1011-385-1, L-1011-385-1- 14, L-1011-385-1- 15, L-1011-385-3
Nut, Retaining Impeller	DEC31- 091-503	379523-1	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC31-091 <u>Rev:</u> B <u>Date:</u> 12/04/07 or later FAA-approved revisions.	Boeing	727 Series, 727-100 Series, 727C Series, 727-100C Series, 727-200 Series, 727-200F Series, 737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 737-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, DC-9-11, DC-9-12, DC-9-13, DC-9-14, DC-9-15, DC-9-15F, DC-9-21, DC-9-31, DC-9-32, DC-9-32 (VC-







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Manufacturing Inspection District Office, ANE-MIDO-41

**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL**

Turbine Kinetics, Inc.  
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 60 Sequin Drive  
 Glastonbury, CT 06033

PMA NO. PQ0816NE  
 SUPPLEMENT NO. 987  
 DATE: March 15, 2016

					304, A310, Model 325
Bearing Set, Sleeve, Matched	DEC31-095-501	968055-1	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-095 <u>Rev:</u> A <u>Date:</u> 03/17/08 or later FAA-approved revisions.	Boeing	727 Series, 727-100 Series, 727C Series, 727-100C Series, 727-200 Series, 727-200F Series, 737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 737-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, DC-9-11, DC-9-12, DC-9-13, DC-9-14, DC-9-15, DC-9-15F, DC-9-21, DC-9-31, DC-9-32, DC-9-32 (VC-9C), DC-9-32F, DC-9-32F (C-9A, C-9B), DC-9-33F, DC-9-34, DC-9-34F, DC-9-41, DC-9-51, DC-9-81 (MD-



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Manufacturing Inspection District Office, ANE-MIDO-41

**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL**

Turbine Kinetics, Inc.  
 A HEICO Aerospace Company  
 60 Sequin Drive  
 Glastonbury, CT 06033

PMA NO. PQ0816NE  
 SUPPLEMENT NO. 987  
 DATE: March 15, 2016

					81), DC-9-82 (MD-82), DC-9-83 (MD-83, DC-9-87 (MD-87), MD-88
Bearing Set, Sleeve, Matched	DEC31-095-503	968055-2	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-095 <u>Rev:</u> A <u>Date:</u> 03/17/08 or later FAA-approved revisions.	Boeing	727 Series, 727-100 Series, 727C Series, 727-100C Series, 727-200 Series, 727-200F Series, 737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 737-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, DC-9-11, DC-9-12, DC-9-13, DC-9-14, DC-9-15, DC-9-15F, DC-9-21, DC-9-31, DC-9-32, DC-9-32 (VC-9C), DC-9-32F, DC-9-32F (C-9A, C-9B), DC-9-33F,



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Manufacturing Inspection District Office, ANE-MIDO-41

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Turbine Kinetics, Inc.  
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 60 Sequin Drive  
 Glastonbury, CT 06033

PMA NO. PQ0816NE  
 SUPPLEMENT NO. 987  
 DATE: March 15, 2016

					DC-9-34, DC-9-34F, DC-9-41, DC-9-51, DC-9-81 (MD-81), DC-9-82 (MD-82), DC-9-83 (MD-83), DC-9-87 (MD-87), MD-88
Seal, Lip	DEC31-107-501	3237917-1	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC31-107 <u>Rev:</u> A <u>Date:</u> 05/07/03 or later FAA-approved revisions.	Boeing	747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series, 747-8F Series, 747-8 Series, 767-200 Series, 767-300 Series, 767-300F Series, 767-400ER Series, DC-10-10, DC-10-40, DC-10-30, DC-10-30F (KC-10A, KDC-10), DC-10-10F, DC-10-40F, DC-10-15



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 Glastonbury, CT 06033

PMA NO. PQ0816NE  
 SUPPLEMENT NO. 987  
 DATE: March 15, 2016

Shaft and Sleeve Set, Matched	DEC31-130-503	3602218-6	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC31-130 <u>Rev:</u> F <u>Date:</u> 03/17/08 or later FAA-approved revisions.	Boeing	737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 737-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, DC-9-11, DC-9-12, DC-9-13, DC-9-14, DC-9-15, DC-9-15F, DC-9-21, DC-9-31, DC-9-32, DC-9-32 (VC-9C), DC-9-32F, DC-9-32F (C-9A, C-9B), DC-9-33F, DC-9-34, DC-9-34F, DC-9-41, DC-9-51, DC-9-81 (MD-81), DC-9-82 (MD-82), DC-9-83 (MD-83), DC-9-87 (MD-87), MD-88
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**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL**

Turbine Kinetics, Inc.  
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 60 Sequin Drive  
 Glastonbury, CT 06033

PMA NO. PQ0816NE  
 SUPPLEMENT NO. 987  
 DATE: March 15, 2016

Nut, Plain – Hexagon	DEC31-134-501	974699-1	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-134 <u>Rev:</u> E <u>Date:</u> 11/06/15 or later FAA-approved revisions.	Boeing	747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series, 747-8F Series, 747-8 Series, DC-10-10, DC-10-40, DC-10-30, DC-10-30F (KC-10A, KDC-10), DC-10-10F, DC-10-40F, DC-10-15
Bushing, Gimbal	DEC31-136-503	974695-19	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-136 <u>Rev:</u> B <u>Date:</u> 04/15/04 or later FAA-approved revisions.	Boeing	747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series, 747-8F Series, 747-8 Series, DC-10-10, DC-10-40, DC-10-30,



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**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL**

Turbine Kinetics, Inc.  
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 60 Sequin Drive  
 Glastonbury, CT 06033

PMA NO. PQ0816NE  
 SUPPLEMENT NO. 987  
 DATE: March 15, 2016

					DC-10-30F (KC-10A, KDC-10), DC-10-10F, DC-10-40F, DC-10-15
Gear Set, Spur Matched – Planetary	DEC31-143-503	364436-3	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-143 <u>Rev:</u> C <u>Date:</u> 08/10/15 or later FAA-approved revisions.	Boeing	747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series, 747-8F Series, 747-8 Series, 767-200 Series, 767-300 Series, 767-300F Series, 767-400ER Series, DC-10-10, DC-10-40, DC-10-30, DC-10-30F (KC-10A, KDC-10), DC-10-10F, DC-10-40F, DC-10-15, MD-11, MD-11F, A300 A300, Model B2-1A, A300, Model B2-1C,
				Airbus	



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Manufacturing Inspection District Office, ANE-MIDO-41

**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL**

Turbine Kinetics, Inc.  
A HEICO Aerospace Company  
60 Sequin Drive  
Glastonbury, CT 06033

PMA NO. PQ0816NE  
SUPPLEMENT NO. 987  
DATE: March 15, 2016

					A300, Model B4-2C, A300, Model B2K-3C, A300, Model B4-103, A300, Model B2-203, A300, Model B4-203, <u>A300-600</u> A300, Model B4-601, A300, Model B4-603, A300, Model B4-620, A300, Model B4-605R, A300, Model B4-622R, A300, Model F4-605R, A300, Model F4-622R, A300, Model C4-605R Variant F, A300, Model B4-622 <u>A310</u> A310, Model 203, A310, Model 304, <u>A320</u> A320 Model- 111*, A320, Model 211, A320, Model 212
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60 Sequin Drive  
Glastonbury, CT 06033

PMA NO. PQ0816NE  
SUPPLEMENT NO. 987  
DATE: March 15, 2016

					A300, Model B2-203, A300, Model B4-203, <u>A300-600</u> A300, Model B4-601, A300, Model B4-603, A300, Model B4-620, A300, Model B4-605R, A300, Model B4-622R, A300, Model F4-605R, A300, Model F4-622R, A300, Model C4-605R Variant F, A300, Model B4-622 <u>A310</u> A310, Model 203, A310, Model 304, <u>A320</u> A320 Model- 111*, A320, Model 211, A320, Model 212
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Turbine Kinetics, Inc.  
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 60 Sequin Drive  
 Glastonbury, CT 06033

PMA NO. PQ0816NE  
 SUPPLEMENT NO. 987  
 DATE: March 15, 2016

Shaft Assembly, Flexible	DEC31-160-503	121754-2	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC31-160 <u>Rev:</u> E <u>Date:</u> 05/09/12 or later FAA-approved revisions.	Bombardier	CL-600-1A11 (CL-600), CL-600-2A12 (CL-601), CL-600-2B16 (CL-601-3A Variant), CL-600-2B16 (CL-601-3R Variant), CL-600-2B16 (CL-604 Variant), CL-600-2B19 (Regional Jet Series 100 & 440)
Shaft Assembly, Flexible	DEC31-160-505	121754-3	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC31-160 <u>Rev:</u> E <u>Date:</u> 05/09/12 or later FAA-approved revisions.	Bombardier	CL-600-1A11 (CL-600), CL-600-2A12 (CL-601), CL-600-2B16 (CL-601-3A Variant), CL-600-2B16 (CL-601-3R Variant), CL-600-2B16 (CL-604 Variant), CL-600-2B19 (Regional Jet Series 100 & 440)
Shaft Assembly, Flexible	DEC31-160-509	121754-5	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC31-160 <u>Rev:</u> E <u>Date:</u> 05/09/12 or later FAA-approved revisions.	Bombardier	CL-600-1A11 (CL-600), CL-600-2A12 (CL-601), CL-600-2B16 (CL-601-3A Variant), CL-600-2B16



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 60 Sequin Drive  
 Glastonbury, CT 06033

PMA NO. PQ0816NE  
 SUPPLEMENT NO. 987  
 DATE: March 15, 2016

					(CL-601-3R Variant), CL-600-2B16 (CL-604 Variant), CL-600-2B19 (Regional Jet Series 100 & 440)
Shaft Assembly, Flexible	DEC31-160-511	121754-6	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-160 <u>Rev:</u> E <u>Date:</u> 05/09/12 or later FAA-approved revisions.	Bombardier	CL-600-1A11 (CL-600), CL-600-2A12 (CL-601), CL-600-2B16 (CL-601-3A Variant), CL-600-2B16 (CL-601-3R Variant), CL-600-2B16 (CL-604 Variant), CL-600-2B19 (Regional Jet Series 100 & 440)
Rotor, Seal	DEC31-167-501	3822057-3	Identity per 14 CFR 21.303. <u>DWG No.:</u> DEC31-167 <u>Rev:</u> - <u>Date:</u> 01/08/99 or later FAA-approved revisions.	Boeing          Airbus	757-200 Series, 757-200PF Series, 757-200CB Series, 757-300 Series, 767-200 Series, 767-300 Series, 767-300F Series, 767-400ER <u>A300-600</u> A300, Model B4-601, A300, Model B4-603, A300, Model



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PMA NO. PQ0816NE  
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 DATE: March 15, 2016

					B4-620, A300, Model B4-605R, A300, Model B4-622R A300, Model F4-605R, A300, Model F4-622R, A300, Model C4-605R Variant F, A300, Model B4-622, <u>A310</u> A310, Model 204, A310, Model 221, A310, Model 222, A310, Model 203, A310, Model 322, A310, Model 324, A310, Model 304, A310, Model 325
Plug, Machine	DEC92-001-503	572-510-9004  A75M	Identicality per 14 CFR 21.303. <u>DWG No.:</u> DEC92-001 <u>Rev:</u> K <u>Date:</u> 04/06/15 or later FAA-approved revisions.	Boeing	707-100 Long Body, 707-200, 707-100B Long Body, 707-100B Short Body, 707-300 Series, 707-400 Series, 707-300B Series, 707-300C Series,



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SUPPLEMENT NO. 987  
DATE: March 15, 2016

					727 Series, 727-100 Series, 727C Series, 727-100C Series, 727-200 Series, 727-200F Series, 737-100 Series, 737-200 Series, 737-200C Series, 737-300 Series, 737-400 Series, 737-500 Series, 737-700 Series, 737-800 Series, 737-600 Series, 737-700C Series, 737-900 Series, 737-900ER Series, 747-100 Series, 747-200B Series, 747-200F Series, 747-200C Series, 747SR Series, 747SP Series, 747-100B Series, 747-300 Series, 747-100B SUD Series, 747-400 Series, 747-400D Series, 747-400F Series, 747-8F Series, 747-8 Series, 767-200 Series, 767-300 Series, 767-300F Series, 767-400ER Series, DC-8-11, DC-8-12, DC-8-21,
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FAA

Manufacturing Inspection District Office, ANE-MIDO-41

**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL**

Turbine Kinetics, Inc.  
A HEICO Aerospace Company  
60 Sequin Drive  
Glastonbury, CT 06033

PMA NO. PQ0816NE  
SUPPLEMENT NO. 987  
DATE: March 15, 2016

					DC-8-31, DC-8-32, DC-8-33, DC-8-41, DC-8-42, DC-8-43, DC-8-51, DC-8-52, DC-8-53, DC-8F-54, DC-8F-55, DC-8-55, DC-8-61, DC-8-61F, DC-8-62, DC-8-62F, DC-8-63, DC-8-63F, DC-8-71, DC-8-71F, DC-8-72, DC-8-72F, DC-8-73, DC-8-73F, DC-9-11, DC-9-12, DC-9-13, DC-9-14, DC-9-15, DC-9-15F, DC-9-21, DC-9-31, DC-9-32, DC-9-32 (VC-9C), DC-9-32F, DC-9-32F (C-9A, C-9B), DC-9-33F, DC-9-34, DC-9-34F, DC-9-41,
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FAA

Manufacturing Inspection District Office, ANE-MIDO-41

**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL**

Turbine Kinetics, Inc.  
A HEICO Aerospace Company  
60 Sequin Drive  
Glastonbury, CT 06033

PMA NO. PQ0816NE  
SUPPLEMENT NO. 987  
DATE: March 15, 2016

					DC-9-51, DC-9-81 (MD-81), DC-9-82 (MD-82), DC-9-83 (MD-83), DC-9-87 (MD-87), MD-88, DC-10-10, DC-10-40, DC-10-30, DC-10-30F (KC-10A, KDC-10), DC-10-10F, DC-10-40F, DC-10-15, MD-11, MD-11F <u>A300</u> A300, Model B2-1A, A300, Model B2-1C, A300, Model B4-2C, A300, Model B2K-3C, A300, Model B4-103, A300, Model B2-203, A300, Model B4-203, Lockheed L-1011-385-1, L-1011-385-1-14, L-1011-385-1-15, L-1011-385-3
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FAA

Manufacturing Inspection District Office, ANE-MIDO-41

**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL**

Turbine Kinetics, Inc.  
A HEICO Aerospace Company  
60 Sequin Drive  
Glastonbury, CT 06033

PMA NO. PQ0816NE  
SUPPLEMENT NO. 987  
DATE: March 15, 2016

------(END OF DATA)-----

GENERAL NOTES:

Provide minor design changes in a manner as determined by the ACO. Process major design changes to drawings and specifications in the same manner as that for an original FAA-PMA

The FAA accepted the ICA approach for the above articles with their designs. The ICA may refer to those of the respective articles from the holders of type certificates. Otherwise, provide supplemental ICA for differences in the replacement articles. Make referral statements for supplemental ICA readily available per 14 CFR 21.50.

*Robert G. Mann*  
Robert G. Mann, Manager  
Boston, Aircraft Certification Office

*Richard P. Warren*  
Richard P. Warren, Manager  
Bradley Manufacturing Inspection  
District Office



U.S. Department  
of Transportation  
**Federal Aviation  
Administration**

Small Airplane Directorate  
Atlanta Manufacturing Inspection  
District Office  
One Crown Center, Suite 475  
1895 Phoenix Blvd  
Atlanta, GA 30349

January 28, 1999

Project No. PQ1469CE

Mr. Rick Rathbun  
Project Engineer  
DEC Technologies, Inc.  
501 Industrial Park Road  
P.O. Box 583  
Piney Flats, TN 37686

Dear Mr. Rathbun:

The statements dated January 25, 1999, certifying that DEC Technologies, Inc. has established a fabrication inspection system that meets the requirements of FAR 21.303(h) for the parts listed are accepted.

Transmitted herein is Production Approval Listing, Supplement No. 48, dated January 28, 1999 which grants approval for the production of the parts listed thereon, under the same conditions and limitations included in the Approval Letter of October 17, 1995.

Should you have any questions regarding this matter, you may wish to direct them to Mr. Nate Watts, of the Nashville MISO at (615) 781-5441.

Sincerely,

A handwritten signature in cursive script that reads "Jim Reeves".

Jim Reeves

Manager, Atlanta Manufacturing  
Inspection District Office

Enclosure

PARTS MANUFACTURER APPROVAL NO. PQ1469CE

PRODUCTION APPROVAL LISTING - SUPPLEMENT NO. 48

DATED JANUARY 28, 1999

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

DEC Technologies, Inc.  
501 Industrial Park Road  
Piney Flats, Tennessee 37686

Part Name	Part Number	Approved Replacement For	FAA Approval Basis & Approved Design Data	Installation Eligibility	Model
Shaft Assembly, Flexible	DEC31-017-501	Airesearch P/N 121750-1	Identicity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-017, No Rev. dated 11/04/98, or Later FAA Approval	Boeing McDonnell Douglas General Electric	747 DC-10 CF6-6 and CF6-50
Shaft Assembly, Flexible	DEC31-018-501	Airesearch P/N 121762-1	Identicity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-018, No Rev. dated 11/04/98, or Later FAA Approval	Boeing CFM International	737 CFM56-2, -3 and -5
Shaft Assembly, Flexible	DEC31-018-503	Airesearch P/N 121762-2	Identicity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-018, No Rev. dated 11/04/98, or Later FAA Approval	Boeing CFM International	737 CFM56-2, -3 and -5
Shaft Assembly, Flexible	DEC31-018-505	Airesearch P/N 121762-3	Identicity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-018, No Rev. dated 11/04/98, or Later FAA Approval	CFM International	CFM56-2, -3 and -5
Shaft Assembly, Flexible	DEC31-018-507	Airesearch P/N 121762-4	Identicity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-018, No Rev. dated 11/04/98, or Later FAA Approval	CFM International	CFM56-2, -3 and -5

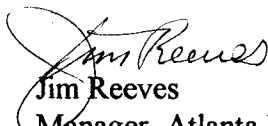
<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For</u>	<u>FAA Approval Basis &amp; Approved Design Data</u>	<u>Installation Eligibility</u>	<u>Model</u>
Shaft Assembly, Flexible	DEC31-045-501	Airesearch P/N 121178-1	Identity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-045, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747
Shaft Assembly, Flexible	DEC31-046-501	Airesearch P/N 121652-1	Identity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-046, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747
Shaft Assembly, Flexible	DEC31-160-503	Airesearch P/N 121754-2	Identity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-160, No Rev. dated 11/04/98, or Later FAA Approval	Bombardier	CL600-1A11, CL600-2A12 and CL600-2B16
Shaft Assembly, Flexible	DEC31-160-505	Airesearch P/N 121754-3	Identity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-160, No Rev. dated 11/04/98, or Later FAA Approval	Bombardier	CL600-1A11, CL600-2A12 and CL600-2B16
Shaft Assembly, Flexible	DEC31-160-509	Airesearch P/N 121754-5	Identity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-160, No Rev. dated 11/04/98, or Later FAA Approval	Bombardier	CL600-1A11, CL600-2A12 and CL600-2B16
Shaft Assembly, Flexible	DEC31-160-511	Airesearch P/N 121754-6	Identity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-160, No Rev. dated 11/04/98, or Later FAA Approval	Bombardier	CL600-1A11, CL600-2A12 and CL600-2B16
Shaft Assembly, Flexible	DEC31-161-503	Airesearch P/N 121734-2	Identity IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-161, No Rev. dated 11/04/98, or Later FAA Approval	Boeing Rolls Royce	747, 747-400 and 767 RB211

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For</u>	<u>FAA Approval Basis &amp; Approved Design Data</u>	<u>Installation Eligibility</u>	<u>Model</u>
Shaft Assembly, Flexible	DEC31-161-505	Airesearch P/N 121734-3	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-161, No Rev. dated 11/04/98, or Later FAA Approval	Boeing Rolls Royce	747, 747-400 and 767 RB211
Shaft Assembly, Flexible	DEC31-161-507	Airesearch P/N 121734-4	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-161, No Rev. dated 11/04/98, or Later FAA Approval	Boeing Rolls Royce	747 RB211
Shaft Assembly, Flexible	DEC31-161-509	Airesearch P/N 121734-5	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-161, No Rev. dated 11/04/98, or Later FAA Approval	Rolls Royce	RB211
Shaft Assembly, Flexible	DEC31-161-511	Airesearch P/N 121734-6	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-161, No Rev. dated 11/04/98, or Later FAA Approval	Rolls Royce	RB211
Shaft Assembly, Flexible	DEC31-162-501	Airesearch P/N 121184-1	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-162, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747
Shaft Assembly, Flexible	DEC31-162-503	Airesearch P/N 121184-2	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-162, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747
Shaft Assembly, Flexible	DEC31-163-505	Airesearch P/N 121196-3-1	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-163, No Rev. dated 11/04/98, or Later FAA Approval	Rolls Royce	RB211

Part Name	Part Number	Approved Replacement For	FAA Approval Basis & Approved Design Data	Installation Eligibility	Model
Shaft Assembly, Flexible	DEC31-164-501	Airesearch P/N 121728-1	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-164, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747
				Lockheed	L-1011
				Rolls Royce	RB211
Shaft Assembly, Flexible	DEC31-165-503	Airesearch P/N 121388-2-1	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-165, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747
Shaft Assembly, Flexible	DEC31-166-503	Airesearch P/N 121282-2	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-166, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747
				McDonnell Douglas	DC-10
				General Electric	CF6-6 and CF6-50
Shaft Assembly, Flexible	DEC31-166-505	Airesearch P/N 121282-3	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-166, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747
				McDonnell Douglas	DC-10
				General Electric	CF6-6 and CF6-50
Shaft Assembly, Flexible	DEC31-166-513	Airesearch P/N 121282-7	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-166, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747
				McDonnell Douglas	DC-10
				General Electric	CF6-6 and CF6-50
Shaft Assembly, Flexible	DEC31-166-515	Airesearch P/N 121282-8	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-166, No Rev. dated 11/04/98, or Later FAA Approval	General Electric	CF6-80A

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Replacement For</u>	<u>FAA Approval Basis &amp; Approved Design Data</u>	<u>Installation Eligibility</u>	<u>Model</u>
Shaft Assembly, Flexible	DEC31-166-517	Airesearch P/N 121282-9	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-166, No Rev. dated 11/04/98, or Later FAA Approval	General Electric	CF6-80A
Shaft Assembly, Flexible	DEC31-166-519	Airesearch P/N 121282-10	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-166, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747, 747-400 and 767
Shaft Assembly, Flexible	DEC31-166-521	Airesearch P/N 121282-11	Identicality IAW 14 CFR FAR 21.303(c)(4), Dwg. DEC31-166, No Rev. dated 11/04/98, or Later FAA Approval	Boeing	747, 747-400 and 767

END OF LISTING

  
 Jim Reeves  
 Manager, Atlanta Manufacturing  
 Inspection District Office



U.S. Department  
of Transportation  
Federal Aviation  
Administration

Small Airplane Directorate  
Atlanta Manufacturing Inspection  
District Office  
One Crown Center, Suite 475  
1895 Phoenix Boulevard,  
Atlanta, GA 30349

March 18, 2002  
**Revised: March 18, 2002**

Project No. PQ1469CE

DEC Technologies, Inc.  
501 Industrial Park Road  
Piney Flats, TN 37686

**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

In accordance with the provisions of 14 CFR part 21, Subpart K, we have found that the design data, based on Identicality submitted by DEC Technologies, Inc. with letter dated March 18, 2002, meet the airworthiness requirements of the regulations applicable to the products on which the parts are to be installed. Additionally, it has been determined that DEC Technologies, Inc. has established the fabrication inspection system required by part 21 § 21.303(h) at 501 Industrial Park Road, Piney Flats, TN. Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement parts listed in the enclosed Supplement No. **58R**.

You are reminded that the provisions of the Federal Aviation Regulations, noted in our PMA letter of approval dated October 17, 1995, also apply to the enclosed PMA Listing-Supplement No. **58R**.

Should you have any questions regarding this matter, you may wish to direct them to Ms. Angelia D. Gann, at the Atlanta MIDO office, telephone (770) 703-6104.

Sincerely,

A handwritten signature in cursive script that reads "Angelia D. Gann".

For: Jim Reeves  
Manager, Atlanta Manufacturing  
Inspection District Office

Enclosure



PARTS MANUFACTURER APPROVAL NO. PQ1469CE

PRODUCTION APPROVAL LISTING - SUPPLEMENT NO. 58R

DATED MARCH 5, 2002  
 REVISION DATE: MARCH 18, 2002

FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL

DEC Technologies, Inc.  
 501 Industrial Park Road  
 Piney Flats, Tennessee 37686

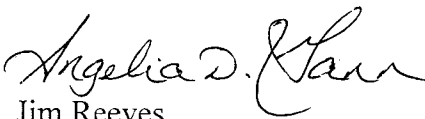
<u>Part Name</u>	<u>Part Number</u>	<u>Approved Re-placement for Part Number</u>	<u>Approval Basis And Approved Design Data</u>	<u>Make Eligibility</u>	<u>Model Eligibility</u>
Seal Assembly, Rotor	DEC61-050-501	Hamilton Standard P/N's 728849-1 and 728849-2	Identity per 14 CFR § 21.303 <u>Dwg No:</u> DEC61-050, <u>Rev:</u> A, <u>Dated:</u> 11/21/01 or later FAA approved revisions	Boeing  McDonnell Douglas	747 and 757  DC-10
Nozzle, Swirl-Primary	DEC21-008-501	General Electric P/N 1275M27P04	Identity per 14 CFR § 21.303 <u>Dwg No:</u> DEC21-008, <u>Rev:</u> A, <u>Dated:</u> 10/07/95 or later FAA approved revisions	CFM International	CFM56-2, -2A, -2-C1, -2-C3, -3, -3-B1, -3B, -3B-2, -3C, -3C-1, -5A1, -5A3, -5A1/F, -5B1, -5B2, -5B1/2, -5B2/2, -5B4/2, -5C2/C3, -5C2/C3F, -5C2/C3/G, -5C4
Shaft Assembly, Flexible	DEC31-160-503	Airesearch P/N 121754-2	Identity per 14 CFR § 21.303 <u>Dwg No:</u> DEC31-160, <u>Rev:</u> A, <u>Dated:</u> 11/27/01 or later FAA approved revisions	Bombardier	CL600-1A11 (CL600); CL600-2A12 (CL601); CL600-2B16 (CL601-3A, CL601-3R & CL604); CL600-2B19 (Regional Jet Series 100)
Shaft Assembly, Flexible	DEC31-160-505	Airesearch P/N 121754-3	Identity per 14 CFR § 21.303 <u>Dwg No:</u> DEC31-160, <u>Rev:</u> A, <u>Dated:</u> 11/27/01 or later FAA approved revisions	Bombardier	CL600-1A11 (CL600); CL600-2A12 (CL601); CL600-2B16 (CL601-3A, CL601-3R & CL604); CL600-2B19 (Regional Jet Series 100)

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Re-placement for Part Number</u>	<u>Approval Basis And Approved Design Data</u>	<u>Make Eligibility</u>	<u>Model Eligibility</u>
Shaft Assembly, Flexible	DEC31-160-509	Airesearch P/N 121754-5	Identicality per 14 CFR § 21.303 <u>Dwg No:</u> DEC31-160, <u>Rev:</u> A, <u>Dated:</u> 11/27/01 or later FAA approved revisions	Bombardier	CL600-1A11 (CL600); CL600-2A12 (CL601); CL600-2B16 (CL601-3A, CL601-3R & CL604); CL600-2B19 (Regional Jet Series 100)

<u>Part Name</u>	<u>Part Number</u>	<u>Approved Re-placement for Part Number</u>	<u>Approval Basis And Approved Design Data</u>	<u>Make Eligibility</u>	<u>Model Eligibility</u>
Shaft Assembly, Flexible	DEC31-160-511	Airesearch P/N 121754-6	Identicality per 14 CFR § 21.303 <u>Dwg No:</u> DEC31-160, <u>Rev:</u> A, <u>Dated:</u> 11/27/01 or later FAA approved revisions	Bombardier	CL600-1A11 (CL600); CL600-2A12 (CL601); CL600-2B16 (CL601-3A, CL601-3R & CL604); CL600-2B19 (Regional Jet Series 100)

**-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.**

for:   
 Jim Reeves  
 Manager, Atlanta Manufacturing  
 Inspection District Office