



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

Manufacturing Inspection District Office, 41  
Building 85-214 Bradley International Airport  
Windsor Locks, CT 06096  
TEL: 860-654-1090  
FAX: 860-654-1089

January 29, 2003

R & D Dynamics  
15 Barber Pond Road  
Bloomfield, CT 06002

ATTN: Mr. Eugene F. Sullivan, Business Manager

**FEDERAL AVIATION ADMINISTRATION - PARTS MANUFACTURER APPROVAL**

In accordance with the provisions of 14 CFR Part 21, Subpart K, the FAA has found that the design data, based on test & computation, submitted by R & D Dynamics, with letter dated January 14, 2003, meets the airworthiness requirements of the Federal Aviation Regulations applicable to the product(s) on which the part(s) are to be installed. Additionally, it has been determined that R & D Dynamics, has established the fabrication inspection system required by Part 21 § 21.303(h), at 15 Barber Pond Road, Bloomfield, CT.

Accordingly, Parts Manufacturer Approval (PMA) is hereby granted for production of the replacement part(s) listed in the enclosed Supplement No. 10, in conformity with the enclosed FAA-approved design data. Any subsequent changes to these design data must be approved in a manner acceptable to the FAA.

You are reminded that provisions of the Federal Aviation Regulations, noted in our PMA letter of May 12, 1999, also apply to the enclosed PMA Listing-Supplement No. 10.

Sincerely,

Earl S. Seabrooks  
Manager, ANE-MIDO-41

Enclosure

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

R&D Dynamics Corporation  
 15 Barber Pond Road  
 Bloomfield, CT 06002

PMA No. PQ1092NE  
 SUPPLEMENT NO. 10  
 DATE 1/29/2003

Part Name	Part Number	Approved Replacement For Part Number (Liebherr)	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Wheel,Turbine, S/A	RD3455-013	3455-013	Test and computation Per 14CFR § 21.303 <u>DWG No: 609101</u> <u>Rev: B</u> <u>Date: 12/6/02</u>	Airbus	A319-111,-112,-113,-114,-131,-132 A320-111,-211,-212,-214,-231,-232,-233 A321-111,-112,-131,-211,-231
Shaft,Compressor, S/A	RD3455-011	3455-011	Test and computation Per 14CFR § 21.303 <u>DWG No: 609102</u> <u>Rev: A</u> <u>Date: 11/8/02</u>	Airbus	A319-111,-112,-113,-114,-131,-132 A320-111,-211,-212,-214,-231,-232,-233 A321-111,-112,-131,-211,-231
Wheel, Fan	RD3455-4	3455-4	Test and computation Per 14CFR § 21.303 <u>DWG No: 609103</u> <u>Rev: A</u> <u>Date: 11/4/02</u>	Airbus	A319-111,-112,-113,-114,-131,-132 A320-111,-211,-212,-214,-231,-232,-233 A321-111,-112,-131,-211,-231
Rod, Tie	RD3455-8	3455-8	Test and computation Per 14CFR § 21.303 <u>DWG No: 609104</u> <u>Rev: A</u> <u>Date: 11/4/02</u>	Airbus	A319-111,-112,-113,-114,-131,-132 A320-111,-211,-212,-214,-231,-232,-233 A321-111,-112,-131,-211,-231
Ring, Sealing, Shrunk	RD3455-070	3455-070	Test and computation Per 14CFR § 21.303 <u>DWG No: 609106</u> <u>Rev: A</u> <u>Date: 11/4/02</u>	Airbus	A319-111,-112,-113,-114,-131,-132 A320-111,-211,-212,-214,-231,-232,-233 A321-111,-112,-131,-211,-231

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R&D Dynamics Corporation  
 15 Barber Pond Road  
 Bloomfield, CT 06002

PMA No. PQ1092NE  
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 DATE 1/29/2003

Part Name	Part Number	Approved Replacement For Part Number (Liebherr)	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Ring, Sealing, Shrunk	RD3455-080	3455-080	Test and computation Per 14CFR § 21.303 <u>DWG No: 609107</u> <u>Rev: A</u> <u>Date: 11/4/02</u>	Airbus	A319-111,-112,-113,-114,-131,-132 A320-111,-211,-212,-214,-231,-232,-233 A321-111,-112,-131,-211,-231
Stop	RD3455-6	3455-6	Test and computation Per 14CFR § 21.303 <u>DWG No: 609108</u> <u>Rev: A</u> <u>Date: 11/6/02</u>	Airbus	A319-111,-112,-113,-114,-131,-132 A320-111,-211,-212,-214,-231,-232,-233 A321-111,-112,-131,-211,-231
Support, Spring	RD3451-020A	3451-020A	Test and computation Per 14CFR § 21.303 <u>DWG No: 609110</u> <u>Rev: A</u> <u>Date: 11/8/02</u>	Airbus	A319-111,-112,-113,-114,-131,-132 A320-111,-211,-212,-214,-231,-232,-233 A321-111,-112,-131,-211,-231
Disk, Stiffener	RD3451-46A	3451-46A	Test and computation Per 14CFR § 21.303 <u>DWG No: 609111</u> <u>Rev: A</u> <u>Date: 9/26/02</u>	Airbus	A319-111,-112,-113,-114,-131,-132 A320-111,-211,-212,-214,-231,-232,-233 A321-111,-112,-131,-211,-231
Bearing, Thrust Turbine Side (CW)	RD3451-018A	3451-018A	Test and computation Per 14CFR § 21.303 <u>DWG No: 609112</u> <u>Rev: B</u> <u>Date: 12/3/02</u>	Airbus	A319-111,-112,-113,-114,-131,-132 A320-111,-211,-212,-214,-231,-232,-233 A321-111,-112,-131,-211,-231

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

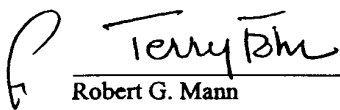
R&D Dynamics Corporation  
15 Barber Pond Road  
Bloomfield, CT 06002

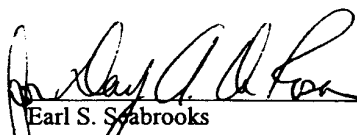
PMA No. PQ1092NE  
SUPPLEMENT NO. 10  
DATE 1/29/2003

Part Name	Part Number	Approved Replacement For Part Number (Liebherr)	Approval Basis and Approved Design Data	Make Eligibility	Model Eligibility
Bearing, Thrust Compressor Side (CCW)	RD3451-019A	3451-019A	Test and computation Per 14CFR § 21.303 <u>DWG No:</u> 609113 <u>Rev:</u> B <u>Date:</u> 12/3/02	Airbus	A319-111,-112,-113,-114,-131,-132 A320-111,-211,-212,-214,-231,-232,-233 A321-111,-112,-131,-211,-231
Journal Bearing Assembly, Turbine	RD3455-64	3455-64 & S975A050	Test and computation Per 14CFR § 21.303 <u>DWG No:</u> 609115 <u>Rev:</u> B <u>Date:</u> 12/6/02	Airbus	A319-111,-112,-113,-114,-131,-132 A320-111,-211,-212,-214,-231,-232,-233 A321-111,-112,-131,-211,-231
Journal Bearing Assembly, Fan	RD3455-65	3455-65 & S975A050	Test and computation Per 14CFR § 21.303 <u>DWG No:</u> 609116 <u>Rev:</u> B <u>Date:</u> 12/6/02	Airbus	A319-111,-112,-113,-114,-131,-132 A320-111,-211,-212,-214,-231,-232,-233 A321-111,-112,-131,-211,-231

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

NOTE: Minor design changes (reference 14CFR 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.

  
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Robert G. Mann  
Manager, Boston Aircraft Certification Office,  
ANE-150

  
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Earl S. Scabrooks  
Manager, Manufacturing Inspection District Office,  
ANE-MIDO-41