



FAA

Manufacturing Inspection District Office, AIR-8A1

**FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL**

R&D Dynamics Corporation  
 49 West Dudley Town Road  
 Bloomfield, CT 06002

PMA NO. PQ1092NE  
 SUPPLEMENT NO.: 37  
 DATE: February 8, 2018

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Rotor - Turbine First Stage	RD1001221-1	1001221-1	Test and Computations per 14 CFR § 21.303, DWG No: 617101, Rev: A Date: 09/01/17 or later FAA-approved revisions	Embraer	ERJ 170-100- LR, SE, STD, SU. ERJ 170-200- LR, STD, SU.  ERJ 190-100 ECJ, IGW, LR, STD. ERJ 190-200 IGW, LR, STD.
Rotor - Turbine Second Stage	RD1001224-1	1001224-1	Test and Computations per 14 CFR § 21.303, DWG No: 617102, Rev: A Date: 09/01/17 or later FAA-approved revisions	Embraer	ERJ 170-100- LR, SE, STD, SU. ERJ 170-200- LR, STD, SU.  ERJ 190-100 ECJ, IGW, LR, STD. ERJ 190-200 IGW, LR, STD.
Rotor - Compressor	RD1001217-2	1001217-2	Test and Computations per 14 CFR § 21.303, DWG No: 617103, Rev: A Date: 09/01/17 or later FAA-approved revisions	Embraer	ERJ 170-100- LR, SE, STD, SU. ERJ 170-200- LR, STD, SU.  ERJ 190-100 ECJ, IGW, LR, STD. ERJ 190-200 IGW, LR, STD.
Fan - Cooling	RD1001236-1	1001236-1	Test and Computations per 14 CFR § 21.303, DWG No: 617104, Rev: A Date: 09/01/17 or later FAA-approved revisions	Embraer	ERJ 170-100- LR, SE, STD, SU. ERJ 170-200- LR, STD, SU.  ERJ 190-100 ECJ, IGW, LR, STD. ERJ 190-200 IGW, LR, STD.



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Shaft – Turbine End	RD1001230-1	1001230-1	Test and Computations per 14 CFR § 21.303, DWG No: 617105, Rev: A Date: 09/01/17 or later FAA-approved revisions	Embraer	ERJ 170-100- LR, SE, STD, SU. ERJ 170-200- LR, STD, SU.  ERJ 190-100 ECJ, IGW, LR, STD. ERJ 190-200 IGW, LR, STD.
Shaft – Fan End	RD1001235-2	1001235-2	Test and Computations per 14 CFR § 21.303, DWG No: 617106, Rev: A Date: 09/01/17 or later FAA-approved revisions	Embraer	ERJ 170-100- LR, SE, STD, SU. ERJ 170-200- LR, STD, SU.  ERJ 190-100 ECJ, IGW, LR, STD. ERJ 190-200 IGW, LR, STD.
Seal - Land	RD1001227-21	1001227-21	Test and Computations per 14 CFR § 21.303, DWG No: 617113, Rev: A Date: 09/01/17 or later FAA-approved revisions	Embraer	ERJ 170-100- LR, SE, STD, SU. ERJ 170-200- LR, STD, SU.  ERJ 190-100 ECJ, IGW, LR, STD. ERJ 190-200 IGW, LR, STD.
Seal - Land	RDS810186-14	S810186-14	Test and Computations per 14 CFR § 21.303, DWG No: 617114, Rev: A Date: 09/01/17 or later FAA-approved revisions	Embraer	ERJ 170-100- LR, SE, STD, SU. ERJ 170-200- LR, STD, SU.  ERJ 190-100 ECJ, IGW, LR, STD. ERJ 190-200 IGW, LR, STD.



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Seal - Land	RDS810186-15	S810186-15	Test and Computations per 14 CFR § 21.303, DWG No: 617115, Rev: A Date: 09/01/17 or later FAA-approved revisions	Embraer	ERJ 170-100- LR, SE, STD, SU. ERJ 170-200- LR, STD, SU.  ERJ 190-100 ECJ, IGW, LR, STD. ERJ 190-200 IGW, LR, STD.
Seal - Land	RDS810186-16	S810186-16	Test and Computations per 14 CFR § 21.303, DWG No: 617116, Rev: A Date: 09/01/17 or later FAA-approved revisions	Embraer	ERJ 170-100- LR, SE, STD, SU. ERJ 170-200- LR, STD, SU.  ERJ 190-100 ECJ, IGW, LR, STD. ERJ 190-200 IGW, LR, STD.
Shaft – Turbine End	RD1001230-2	1001230-2	Test and Computations per 14 CFR § 21.303, DWG No: 617117, Rev: A Date: 01/23/18 or later FAA-approved revisions	Embraer	ERJ 170-100- LR, SE, STD, SU. ERJ 170-200- LR, STD, SU.  ERJ 190-100 ECJ, IGW, LR, STD. ERJ 190-200 IGW, LR, STD.
Bearing - Journal Assembly	RD1024710-2	1024710-2	Test and Computations per 14 CFR § 21.303, DWG No: 617128, Rev: A Date: 01/23/18 or later FAA-approved revisions	Embraer	ERJ 170-100- LR, SE, STD, SU. ERJ 170-200- LR, STD, SU.  ERJ 190-100 ECJ, IGW, LR, STD. ERJ 190-200 IGW, LR, STD.

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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. These 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 or supplemental ICA readily available per 14 CFR 21.50.

Handwritten signature of Michael Schwef in cursive.

FOR Kevin Dickert, Manager  
Boston ACO Branch  
AIR-7B0

Handwritten signature of Eileen Murphy in cursive.

(c) Eileen Murphy, Manager  
Bradley MIDO Section  
AIR-8A1