



FAA

Manufacturing Inspection District Office, ANE-MIDO-41

FEDERAL AVIATION ADMINISTRATION – PARTS MANUFACTURER APPROVAL

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

PMA NO. PQ1092NE
SUPPLEMENT NO.: 20 Amdt. 1
DATE: July 25, 2017

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Rotor-Turbine	RD1003885-1	1003885-1	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 614101, <u>Rev:</u> A <u>Date:</u> 3/16/09 or later FAA-approved revisions	Bombardier Inc. Embraer	DHC-8-400 Series EMB 135BJ, LR, KE, ER, KL EMB 145, -145EP, MP, XR, MR, LR, ER
Rotor-Compressor	RD821162-1	821162-1	Test and Computations per 14 CFR § 21.303, <u>DWG No:</u> 614102, <u>Rev:</u> A <u>Date:</u> 4/6/09 or later FAA-approved revisions	Bombardier Inc.	DHC-8-400 Series
Fan-Cooling	RD821155-1	821155-1	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 614103 <u>Rev:</u> B <u>Date:</u> 4/15/11 or later FAA-approved revisions	Bombardier Inc.	DHC-8-400 Series
Shaft, Air Bearing	RD806263-1	806263-1	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 614104 <u>Rev:</u> A <u>Date:</u> 3/18/09 or later FAA-approved revisions	Bombardier Inc. Embraer Saab	DHC-8-400 Series EMB 135BJ, LR, KE, ER, KL EMB 145, -145EP, MP, XR, MR, LR, ER SAAB 2000



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Shaft-Air Bearing	RD821164-1	821164-1	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 614105 <u>Rev:</u> A <u>Date:</u> 4/7/09 or later FAA-approved revisions	Bombardier Inc.	DHC-8-400 Series
Rod-Tie	RD806262-1	806262-1	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 614106 <u>Rev:</u> A <u>Date:</u> 3/17/09 or later FAA-approved revisions	Bombardier Inc. Embraer Saab	DHC-8-400 Series EMB 135BJ, LR, KE, ER, KL EMB 145, -145EP, MP, XR, MR, LR, ER SAAB 2000
Diffuser-Compressor	RD821153-1	821153-1	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 614107 <u>Rev:</u> A <u>Date:</u> 4/2/09 or later FAA-approved revisions	Bombardier Inc.	DHC-8-400 Series
Bearing-Thrust -CW	RD1006918-1	1006918-1	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 614108 <u>Rev:</u> A <u>Date:</u> 4/7/09 or later FAA-approved revisions	Bombardier Inc. Embraer	DHC-8-400 Series EMB 135BJ, LR, KE, ER, KL EMB 145, -145EP, MP, XR, MR, LR, ER



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Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Bearing-Thrust-CCW	RD1006919-1	1006919-1	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 614109 <u>Rev:</u> A <u>Date:</u> 4/7/09 or later FAA-approved revisions	Bombardier Inc. Embraer	DHC-8-400 Series EMB 135BJ, LR, KE, ER, KL EMB 145, -145EP, MP, XR, MR, LR, ER
Nozzle-Turbine	RD821160-2	821160-2	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 614114 <u>Rev:</u> A <u>Date:</u> 3/27/09 or later FAA-approved revisions	Bombardier Inc.	DHC-8-400 Series
Plate-Seal	RD811462-2	811462-2	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 614115 <u>Rev:</u> A <u>Date:</u> 4/8/09 or later FAA approved revision	Bombardier Inc Embraer Saab	DHC-8-400 Series EMB 135BJ, LR, KE, ER, KL EMB 145, -145EP, MP, XR, MR, LR, ER SAAB 2000
Nozzle-Shroud	RD821159-1	821159-1	Test and Computations per 14 CFR § 21.303 <u>DWG No:</u> 614127 <u>Rev:</u> A <u>Date:</u> 3/20/09 or later FAA approved revision	Bombardier Inc.	DHC-8-400 Series



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Table with 6 columns: Article Name, Article Number, Approved Replacement for Article Number, Approval Basis and Approved Design Data, Make/TCH Eligibility, Model/Series Eligibility. Row 1: Assembly-Journal Bearing, RD1007002-1, 1007002-1, Test and Computations per 14 CFR § 21.303, Bombardier Inc., Embraer, Saab, DHC-8-400 Series, EMB 135BJ, LR, KE, ER, KL, EMB 145, -145EP, MP, XR, MR, LR, ER, SAAB 2000.

(END OF LISTING)

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.

Signature of Michael Schwefel
Kevin Dickert, Manager
Boston Aircraft Certification Office

Signature of Eileen Murphy
Eileen Murphy, Manager
Bradley Manufacturing Inspection
District Office