



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.: 23 Amdt 1
DATE: September 12, 2019

Article Name	Article Number	Approved Replacement for Article Number	Approval Basis and Approved Design Data	Make/TCH Eligibility	Model/Series Eligibility
Wheel - Turbine	RD586172-1	586172-1	Test and Computations per 14 CFR § 21.303, DWG No: 602101, Rev: B Date: 11/10/14 or later FAA-approved revisions	Bombardier Inc. Textron Aviation Inc. Daher Aerospace Embraer S. A.	CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant), CL-600-2B16 (604 Variant), CL-600-2B19, (Regional Jet Series 100 & 440), CL-600-2C10, (Regional Jet Series 700, 701 & 702), CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000) MU-300-10, 400, 400A, 400T. TBM 700 EMB-120,-120RT,-120ER, -120FC, -120QC
Impeller-Compressor	RD582275-2	582275-2	Test and Computations per 14 CFR § 21.303, DWG No: 602102, Rev: A Date: 08/15/12 or later FAA-approved revisions	Bombardier Inc. Textron Aviation Inc. Daher Aerospace Embraer S. A.	CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant), CL-600-2B16 (604 Variant), CL-600-2B19, (Regional Jet Series 100 & 440), CL-600-2C10, (Regional Jet Series 700, 701 & 702) CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000) MU-300-10, 400, 400A, 400T. TBM 700 EMB-120,-120RT,-120ER, -120FC, -120QC
Shaft Assembly	RD582653-2	582653-2	Test and Computations per 14 CFR § 21.303, DWG No: 602103, Rev: E Date: 10/14/16 or later FAA-approved revisions	Bombardier Inc. ATR Textron Aviation Inc. Daher Aerospace Embraer S. A.	CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant), CL-600-2B16 (604 Variant), CL-600-2B19, (Regional Jet Series 100 & 440), CL-600-2C10, (Regional Jet Series 700, 701 & 702) CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000) ATR42-200,-300,-320,-500. ATR72-101,-102,-201,-202,-211,-212,-212A MU-300-10, 400, 400A, 400T. TBM 700 EMB-120,-120RT,-120ER, -120FC, -120QC



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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 Set –Journal	RD2207003-1	2207003-1	Test and Computations per 14 CFR § 21.303, DWG No: 602104, Rev: C Date: 08/22/18 or later FAA-approved revisions	Bombardier Inc. Textron Aviation Inc.	CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant), CL-600-2B16 (604 Variant), CL-600-2B19, (Regional Jet Series 100 & 440), CL-600-2C10, (Regional Jet Series 700, 701 & 702) CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000) MU-300-10, 400, 400A, 400T.
Bearing Set –Journal	RD2207075-2	2207075-2	Test and Computations per 14 CFR § 21.303, DWG No: 602105, Rev: C Date: 08/22/18 or later FAA-approved revisions	Bombardier Inc. Textron Aviation Inc. Daher Aerospace Embraer S. A.	CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant), CL-600-2B16 (604 Variant), CL-600-2B19, (Regional Jet Series 100 & 440), CL-600-2C10, (Regional Jet Series 700, 701 & 702) CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000) MU-300-10, 400, 400A, 400T. TBM 700 EMB-120,-120RT,-120ER, -120FC, -120QC
Bearing Thrust – Matched Set	RD586187-1	586187-1	Test and Computations per 14 CFR § 21.303, DWG No: 602106, Rev: B Date: 06/27/13 or later FAA-approved revisions	Bombardier Inc. ATR Textron Aviation Inc. Daher Aerospace Embraer S. A.	CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant), CL-600-2B16 (604 Variant), CL-600-2B19, (Regional Jet Series 100 & 440), CL-600-2C10, (Regional Jet Series 700, 701 & 702) CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000) ATR42-200,-300,-320,-500. ATR72-101,-102,-201,-202,-211,-212,-212A MU-300-10, 400, 400A, 400T. TBM 700 EMB-120,-120RT,-120ER, -120FC, -120QC



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Bearing Thrust – Matched Set	RD586187-2	586187-2	Test and Computations per 14 CFR § 21.303, DWG No: 602107, Rev: B Date: 06/27/13 or later FAA-approved revisions	Bombardier Inc. ATR Textron Aviation Inc. Daher Aerospace Embraer S. A.	CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant), CL-600-2B16 (604 Variant), CL-600-2B19, (Regional Jet Series 100 & 440), CL-600-2C10, (Regional Jet Series 700, 701 & 702) CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000) ATR42-200,-300,-320,-500. ATR72-101,-102,-201,-202,-211,-212,-212A MU-300-10, 400, 400A, 400T. TBM 700 EMB-120,-120RT,-120ER, -120FC, -120QC
Ring – Turbine Nozzle	RD586173-1	586173-1	Test and Computations per 14 CFR § 21.303, DWG No: 602108, Rev: A Date: 08/24/12 or later FAA-approved revisions	Bombardier Inc. Textron Aviation Inc. Embraer S. A.	CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant), CL-600-2B16 (604 Variant), CL-600-2B19, (Regional Jet Series 100 & 440), CL-600-2C10, (Regional Jet Series 700, 701 & 702) CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000) MU-300-10, 400, 400A, 400T. EMB-120,-120RT,-120ER, -120FC, -120QC
Seal – Shaft	RD582374-1	582374-1	Test and Computations per 14 CFR § 21.303, DWG No: 602109, Rev: A Date: 08/24/12 or later FAA-approved revisions	Bombardier Inc. ATR Textron Aviation Inc. Embraer S. A.	CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant), CL-600-2B16 (604 Variant), CL-600-2B19, (Regional Jet Series 100 & 440), CL-600-2C10, (Regional Jet Series 700, 701 & 702) CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000) ATR42-200,-300,-320,-500. ATR72-101,-102,-201,-202,-211,-212,-212A MU-300-10, 400, 400A, 400T. EMB-120,-120RT,-120ER, -120FC, -120QC



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Cover	RD582287-3	582287-3	Test and Computations per 14 CFR § 21.303, DWG No: 602113, Rev: B Date: 11/15/12 or later FAA-approved revisions	Bombardier Inc. ATR Textron Aviation Inc. Embraer S. A.	CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant), CL-600-2B16 (604 Variant), CL-600-2B19, (Regional Jet Series 100 & 440), CL-600-2C10, (Regional Jet Series 700, 701 & 702) CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000) ATR42-200,-300,-320,-500. ATR72-101,-102,-201,-202,-211,-212,-212A MU-300-10, 400, 400A, 400T. EMB-120,-120RT,-120ER, -120FC, -120QC
Cover Assy – Thrust Brg	RD582287-4	582287-4	Test and Computations per 14 CFR § 21.303, DWG No: 602114, Rev: A Date: 11/15/12 or later FAA-approved revisions	Bombardier Inc. ATR Textron Aviation Inc. Embraer S. A.	CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant), CL-600-2B16 (604 Variant), CL-600-2B19, (Regional Jet Series 100 & 440), CL-600-2C10, (Regional Jet Series 700, 701 & 702) CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000) ATR42-200,-300,-320,-500. ATR72-101,-102,-201,-202,-211,-212,-212A MU-300-10, 400, 400A, 400T. EMB-120,-120RT,-120ER, -120FC, -120QC
Seal – Shaft	RD582375-1	582375-1	Test and Computations per 14 CFR § 21.303, DWG No: 602110, Rev: B Date: 10/31/18 or later FAA-approved revisions	Bombardier Inc. ATR Textron Aviation Inc. Daher Aerospace Embraer S. A.	CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant), CL-600-2B16 (604 Variant), CL-600-2B19, (Regional Jet Series 100 & 440), CL-600-2C10, (Regional Jet Series 700, 701 & 702) CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000) ATR42-200,-300,-320,-500. ATR72-101,-102,-201,-202,-211,-212,-212A MU-300-10, 400, 400A, 400T. TBM 700 EMB-120,-120RT,-120ER, -120FC, -120QC



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Plate	RD582379-5	582379-5	Test and Computations per 14 CFR § 21.303, DWG No: 602112, Rev: B Date: 06/20/19 or later FAA-approved revisions	Bombardier Inc. ATR Textron Aviation Inc. Daher Aerospace Embraer S. A.	CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant), CL-600-2B16 (604 Variant), CL-600-2B19, (Regional Jet Series 100 & 440), CL-600-2C10, (Regional Jet Series 700, 701 & 702) CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000) ATR42-200,-300,-320,-500. ATR72-101,-102,-201,-202,-211,-212,-212A MU-300-10, 400, 400A, 400T. TBM 700 EMB-120,-120RT,-120ER, -120FC, -120QC
Seal Assy – Turbine	RD582379-4	582379-4	Test and Computations per 14 CFR § 21.303, DWG No: 602115, Rev: B Date: 06/20/19 or later FAA-approved revisions	Bombardier Inc. ATR Textron Aviation Inc. Daher Aerospace Embraer S. A.	CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant), CL-600-2B16 (604 Variant), CL-600-2B19, (Regional Jet Series 100 & 440), CL-600-2C10, (Regional Jet Series 700, 701 & 702) CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000) ATR42-200,-300,-320,-500. ATR72-101,-102,-201,-202,-211,-212,-212A MU-300-10, 400, 400A, 400T. TBM 700 EMB-120,-120RT,-120ER, -120FC, -120QC



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Retainer – Spacer	RD582296-1	582296-1	Test and Computations per 14 CFR § 21.303, DWG No: 602111, Rev: A Date: 08/24/12 or later FAA-approved revisions	Bombardier Inc. Textron Aviation Inc. Daher Aerospace Embraer S. A.	CL-600-1A11 (600), CL-600-2A12 (601), CL-600-2B16 (601-3A Variant), CL-600-2B16 (601-3R Variant), CL-600-2B16 (604 Variant), CL-600-2B19 (Regional Jet Series 100 & 440), CL-600-2C10 (Regional Jet Series 700, 701 & 702), CL-600-2D15 (Regional Jet Series 705), CL-600-2D24 (Regional Jet Series 900), CL-600-2E25 (Regional Jet Series 1000) MU-300-10, 400, 400A, 400T. TBM 700 EMB-120,-120RT,-120ER, -120FC, -120QC

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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.

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

Michael Sullivan, Acting Manager
Bradley MIDO Section AIR-8A1