

250-C20J
CAE-270725

ALLISON MODEL 250 ENGINE LOG

PT-YBD



Engine Company



CERTIFICATE OF CONFORMANCE

Allison Engine Company, Inc. certifies that the 250 Series Turboshift Engine shipped herewith was manufactured in accordance with all applicable specifications, drawings and procedures. This certificate shall be of no force or effect upon expiration of the warranty provision applicable to the purchase order.

Engine Serial No. CAE270725

Quality Assurance Department

July 26, 1995

Date



Part I
Page No. 01

Engine Serial Number CAE- 270725 Engine Model 250- C20J

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F-2785AT

ASSEMBLY RECORD

ENGINE ASSEMBLY


 Part V
 Page No. 01
Engine Serial Number CAE- 270725Engine Model 250- C20J

Nomenclature	Part Number	Serial Number	INSTALLED		REMOVED		Reason
			Date	TT	Date	TT	
				TSO		TSO	
GEARBOX	23001923	CAG27728	7-26-95	0.0 NEW		3498.1 New	Inspection
COMPRESSOR	6890550	CAC42811	"	0.0 NEW		3498.1 New	Overhaul
TURBINE	23038241	CAT26374	"	0.0 NEW	28-03-03	1760.4 0.0	H.M.I
Turbina	689875	CAT 36887	28-03-03	3.464.5 -	02-04-03	3484.8 -	Return loc. R.R.B
Turbine	23038241	CAT 26374	02-04-03	1760.4 Novo	04-out-05	2367.9 NEW	REPAIRED
TURBINA	23038241	CAT 26374	04-out-05	2367.9 NEW		3498.1 New	Overhaul
Gearbox	23001923	CAG27728	01 APR 2017	3498.1 New			
Compressor	6890550	CAC42811		3498.1 New			
Turbine	23038241	CAT 26374		3498.1 New			



GT-2786CT

ASSEMBLY RECORD ENGINE ACCESSORIES


 Part VI
 Page No. _____

 Engine Serial Number CAE- 270725

 Engine Model 250- C20J

Nomenclature	Part Number	Serial Number	INSTALLED		REMOVED		Reason
			Date	TT	Date	TT	
				TSO		TSO	
FUEL CONTROL	23057344	BR57159	7-26-95	0.0 NEW	14/02/06	2497.6 New	Verminato TBO
GOV., PWR, TURB.	23057869	BR41429	"	0.0 NEW	17/11/03	1951.7 New	TBO.
FUEL PUMP	23057338	AKV0075	"	0.0 NEW	8-9-95	0.0 NEW	LEAK
FUEL NOZZLE	6890917	1ZJ05485	"	0.0 NEW	06-JUL/05	2332.6 New	OVERHAUL
BLEED VALVE	23053176	FF55548	"	0.0 NEW	27-05-02	1624.3 New	Overhaul
Fuel Pump	23057338	AKV0029	8-9-95	0.0 NEW	01 ABR 2011	3498.1 New	Overhaul
Bleed Valve	23053176	FF14486	29-05-02	UNK 0.0	01/03/04	UNK 1364.5	Overhaul
Governor	2524769-14	BR33033	17/11/03	1951.7 New	01 ABR 2011	3498.1 New	Repair
FUEL NOZZLE	23077058	1UP08560	06/JUL/05	2332.6 NEW	25/08/05	2357.4 NEW	CONVENIENCE
FUEL NOZZLE	23077058	1ZJ05485	25/08/05	2357.4 NEW	01 ABR 2011	3498.1 New	Test



GT-2786CT

ASSEMBLY RECORD ENGINE ACCESSORIES

Part VI
Page No. _____Engine Serial Number CAE- 270725Engine Model 250- C20J

SPP

Nomenclature	Part Number	Serial Number	INSTALLED		REMOVED		Reason
			Date	TT	Date	TT	
				TSO		TSO	
Fuel Control	23070606	HR 58993	14.02.06	2497,6 NOVO	01 ABR 2011	3498.1 NEW	Inspection
BLEED VALVE	23053176	FF14156	29/06/07	3067,9	01 ABR 2011	3498.1 NEW	Inspection
Governor	23065121	BR33033	01 ABR 2011	3498.1 NEW	20-JUN-17	3990,0 2000,6	OVERHAUL
Fuel Nozzle	23077068	1ZJ05485	01 ABR 2011	3498.1 NEW			
Bleed Valve	23053176	FF14156	01 ABR 2011	3498.1 NEW			
Fuel Control	23070606	HR58993	01 ABR 2011	3498.1 NEW			
Fuel Pump	386500-5 6899253	T103636	14/06/2011	3498,1 0,0			
P.T.G	23065121	BR33033	21/07/2017	3990,0 0,0			



SERVICE RECORD

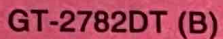
TURBINE ASSEMBLY

Part I
Page No.

Turbine Serial Number CAT- 26374

Engine Model 250- C20J

[illegible]



Part II
Page No. 1

Turbine Serial Number CAT- 26374

Engine Model 250- C20J

[illegible]



GT-2788AT

AD NOTE COMPLIANCE AND CEB MODIFICATION RECORD TURBINE ASSEMBLY

Part III
Page No. 1Turbine Serial Number CAT- 26374Engine Model 250- C20J

AD #	Applicable CEB #	Date	Method of Compliance	One Time	Recurring	Next Comp. Date	Signature and Certificate Number
		Hours @ Comp.				Next Comp. @ Hrs	
			SEE ENCLOSED LIST				
	CEBA-1370	20/03/01 1.484.5	Inspection of 1st Stage Nozzle Shield Dome Part No 2896040				Jurandir Alves da Cunha LIC 167024 (DAC 469031) TECHSERVICE
	A-1342	28 MAR 2003 1760.4	Inspection of 1st stage Nozzle shield Dome Detail for HMI or Overhaul. (Rev. # 2).	X			Rolls-Royce Brasil
	1371	28 MAR 2003 1760.4	Gas Producer Rotor Assy - Replace Turbine Tie Bolt.		X	cy: 10861	Rolls-Royce Brasil
	A-1375	28 MAR 2003 1760.4	Replacement of 2nd. slg. Nozzle Diaphragm.		X	Next Overhaul 3500.00	Rolls-Royce Brasil
	CSL 1165	28 MAR 2003 1760.4	Heavy Maintenance Inspection - Option (A).		X	Next HMI. 5250.0	Rolls-Royce Brasil

ARIOVALDO A. SILVA
COD. DAC 867457
ARIOVALDO A. SILVA
COD. DAC 867457



GT-2788AT

AD NOTE COMPLIANCE AND CEB MODIFICATION RECORD TURBINE ASSEMBLY

Part III
Page No. 2Turbine Serial Number CAT- 26374Engine Model 250- C20J

AD #	Applicable CEB #	Date	Method of Compliance	One Time	Recurring	Next Comp. Date	Signature and Certificate Number
		Hours @ Comp.				Next Comp. @ Hrs	
87-06-02	A1224R4	01 ABR 2011	Inner and outer power turbine shafts thicker electroless nickel plate (previously embossed)	X		100	Rolls-Royce Brasil
		3498.1				100	
—	1239R1	01 ABR 2011	"U" ring gasket		X	Next	Rolls-Royce Brasil
		3498.1				Assembly	
—	1299R2	01 ABR 2011	Combustion liner-rework (previously embossed)	X		—	Rolls-Royce Brasil
		3498.1				—	
—	1312R1	01 ABR 2011	Compressor Air discharge tube 23035-282 replaced (PIN not affected)	—	—	—	Rolls-Royce Brasil
		3498.1				—	
—	1333R6	01 ABR 2011	Authorization to reidentify semi-finished 2nd-stage nozzles	X		—	Rolls-Royce Brasil
		3498.1				—	
—	A1341 R2	01 ABR 2011	Visual inspection of certain first-stage nozzle sheld some details per condition	X		—	Rolls-Royce Brasil
		3498.1				—	
—	1360R2	01 ABR 2011	Recoating of power turbine inner shaft		X	Next	Rolls-Royce Brasil
		3498.1				Overhaul	
—	A1370RG	01 ABR 2011	Inspection of 1st-stage nozzle shield some		X	Next	Rolls-Royce Brasil
		3498.1				1000 cycles	
—	A1375R3	01 ABR 2011	Replacement of 2nd-stg Nozzle diaphragm		X	Next	Rolls-Royce Brasil
		3498.1				HMI	

Ad Note Compliance And Ceb Modification Record Turbine Assembly



Rolls-Royce

Part III
Page No. 03

Turbine Serial Number CAT- 26374

Engine Model 250- C20J

AD #	Applicable CEB #	Date Hours @ Comp.	Method of Compliance	One Time	Recurring	Next Comp. Date	Signature and Certificate Number
		Next Comp. @ Hrs					
—	1399 R1	01 ABR 2011 3498.1	Inspection of sump assembly, oil-gasifier tur- bine bearing support.	X		—	Rolls-Royce Bras
—	A1400R3	01 ABR 2011 3498.1	Steady-state operation avoidance range limit		X	Next change 3 rd and 4 th wheel	Rolls-Royce Bras
—	CSL1165R6	01 ABR 2011 3498.1	Heavy maintenance inspe- ction HMI compliance option A		X	Next HMI	Rolls-Royce Bras
—	CSL1244	01 ABR 2011 3498.1	Power turbine rotor clamping		X	Next Assembly	Rolls-Royce Bras
—	A1283R7	01 ABR 2011 3498.1	Alcoat coating of power turbine inner and outer shafts (previously embodied)		X	Next Access	Rolls-Royce Bras
—	A1253R4	01 ABR 2011 3498.1	First and second stage turbine nozzles-modify for incorporation of an internal	X		—	Rolls-Royce Bras
			energy absorbing ring (previously embodied)			—	Rolls-Royce Bras
—	A1254R3	01 ABR 2011 3498.1	Gas producer support modify for incorporation of an internal energy absorbing ring (previously embodied)	X		—	Rolls-Royce Bras
2005-10-13	A1255R4	01 ABR 2011 3498.1	Internal energy absor- bing ring-A100 (previously embodied)	X		—	Rolls-Royce Bras

Part III

Page No.

Engine Model 250-cao J

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F-2784D (5/95)

INSPECTION - MAINTENANCE - OVERHAUL RECORD

TURBINE ASSEMBLY

Part IV
Page No. 1Turbine Serial Number CAT- 26374 Engine Model 250- C20J

Date	Turbine Time		Remarks	Signature and Certificate No.	Organization
	Since OH	Total			
19/05/2002	NEW	1300.0 ^{NSC}	Substituido O SELO SANTINADO AO ROLAMENTO #5.	 DAC 505537	ATC N.º 13
28 MAR 2003	NEW	1760.4	Turbine Repaired. Submitted to HMI i.o.w. CSL 1165. 1 st & 2 nd Stg. wheels replaced. Tie Bolt	 ARIOVALDO A. SILVA COD. DAC 867457 LIC. 14781	Rolls-Royce Brasil
	CSN - 1861		PIN: 23068265 & S/N: NM83124 with Free state length: 6.878"		
			cycles during the test: 02	 MARINO SCHIOVAN COD. DAC 939736 LIC. 15824	Rolls-Royce Brasil
			Details under W/O 214185.		
04 Oct. 2005	NEW	TSN: 236379 CSN: 2310	REPLACED OF 1 st STG NOZZLE, INST	 MARINO SCHIOVAN COD. DAC 939736 LIC. 15824	Rolls-Royce
			P/N: 23060450 S/N: KD 230125		
			DETAILS UNDER W/O 259533		



Part IV
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Engine Model 250- C20I

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F-2785DT

ASSEMBLY RECORD

TURBINE ASSEMBLY


 Part V
 Page No. 1
Turbine Serial Number CAT- 26374Engine Model 250- C20J

Nomenclature	Part Number Serial Number	INSTALLED			REMOVED		
		Date	Turbine	Component	Date	Turbine	Component
			TT CYCLES	TT CYCLES		TT CYCLES	TT CYCLES
1ST STG. WHL.	6886407 X133586	7-26-95	0.0	0.0	28 MAR 2003	1760.4 1861	1760.4 1861
2ND STG. WHL.	6898782 HX114662	"	0.0	0.0	28 MAR 2003	1760.4 1861	1760.4 1861
3RD STG. WHL.	23001967 HX81740	"	0.0	0.0	01 ABR 2011	3498.1 3214	3498.1 3214
4TH STG. WHL.	6853279 HX69196	"	0.0	0.0		3498.1 3214	3498.1 3214
1st stg. whl.	23073853 X507685	28 MAR 2003	1760.4 1861	0.0 0	01 ABR 2011	3498.1 3214	1737.7 1353
2nd stg. whl.	23073854 X503287	28 MAR 2003	1760.4 1861	0.0 0		3498.1 3214	1737.7 1353
Tie Bolt	23068265 NM83124	28 MAR 2003	1760.4 1861	0.0 0	01 ABR 2011	3498.1 3214	1737.7 1353
1st stg Nozzle Shield	6890040 NIC	01 ABR 2011	3498.1 3214	TSD: 0.0 CSD: 0			
Tie Bolt	23068265 NM83124	01 ABR 2011	3498.1 3214	1737.7 1353			
1st stg wheel	23073853 X582010	01 ABR 2011	3498.1 3214	0.0 0			



Part V
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Part V
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Engine Model 250- C20J

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Part VI
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Turbine Serial Number CAT- 26374 Engine Model 250- C20J

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CYCLE RECORD

TURBINE ASSEMBLY



Part VI
Page No.

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Turbine Serial Number CAT- 26374

Engine Model 250- C20J

[illegible]



Rolls-Royce

LIFE LIMITED PART LOG CARD

LIFE LIMITED PART NAME <i>4th stage wheel</i>			PART NUMBER <i>6853279</i>			SERIAL NUMBER <i>HX67901</i>		
Date Installed	Date Removed	Engine and Module S/N	Engine Model	Hours	Cycles	Overspeed Events* (as app)	Comments	Signature And Certificate #
<i>01 APR 2011</i>		<i>CAE230725 CAT 26374</i>	<i>C20J</i>	<i>2613.0</i>	<i>3749</i>	<i>N/A</i>	<i>Aplicado boletim CEB-A1400</i>	<i>Rolls-Royce Brasil</i>

*For PT Wheel Overspeed Cycles, record event date and event maximum % no the Comments Line.

*This card should accompnay the part when removed from engine or module.

GT-12017 (4-05)



Rolls-Royce

LIFE LIMITED PART LOG CARD

LIFE LIMITED PART NAME <i>3rd Stage wheel</i>			PART NUMBER <i>23001967</i>			SERIAL NUMBER <i>Hx81740</i>		
Date Installed	Date Removed	Engine and Module S/N	Engine Model	Hours	Cycles	Overspeed Events* (as app)	Comments	Signature And Certificate #
<i>01 ABR 2011</i>		<i>CAE270725 CAT26374</i>	<i>C20J</i>	<i>34903</i>	<i>3214</i>	<i>N/A</i>	<i>Aplicado boletim CEB-A1400</i>	<i>Rolls-Royce Brasil</i>

*For PT Wheel Overspeed Cycles, record event date and event maximum % no the Comments Line.

*This card should accompnay the part when removed from engine or module.

GT-12017 (4-05)



Allison Engine Company P.O. Box 420 Indianapolis, Indiana 46206-0420

THIS ENGINE CONFORMS TO THE FOLLOWING PUBLISHED CEB'S
250-C20B, C20F, C20J, C20S, C20W

ENGINE S/N CAE270725

This list includes Commercial Engine Bulletins on file as of 7-26-95.
As of this date, no outstanding Airworthiness Directives apply to this unit.

<u>CEB NO.</u>	<u>SUBJECT</u>
1001 thru) 1150	Conforms as applicable.
1156	Bleed Valve Assembly Gasket - Replace
1162	Bendix Fuel Control Assembly Ratio Lever and Bellows Assemblies with Improved Wear Characteristics
1164	Sunstrand, Fuel Pump and Filter Assembly (Single Element) Driveshaft and Gear Set - Replace
1181	Engine, Turbine Assembly, Modify 250-C20F for Series II Commonality
1198	Bendix Fuel System Pr Pressure Tube Assembly, Governor to Fuel Control - Add Two Clamping Arrangements
1206	Engine, Fuel and Control, Bendix Fuel Control and Power Turbine Governor Assemblies - Inspect Bushing Assemblies
1207	Engine, Fuel and Control, Bendix Fuel Control and P.T. Governor Assemblies - Add Filter Fittings
1213	Air System, Compressor Bleed Valve Assembly - Modify
1214	Engine, Fuel and Control, FCU and Governor Assembly - Modify
1233	Engine, Fuel, Lube and Air System, Improved Strength Pc Filter Housing
1257	Engine, Engine Assembly Shipping Container - Modify
1260	Engine, Air System, Bleed Valve, Improved Valve Stem Bushing - Install
1265	Engine, Air System, Additional Clamping Requirements, 250-C20S Pneumatic Tubes
1287	Engine, Air System, Bleed Valve, Improved Valve Stem Bushing - Install
1289	Engine, Fuel and Control, Bendix P.T. Governor, Removal of Py Accumulator
1294	Engine, Fuel and Control, Replace P/N 6848471 and 23051141 Tube Assemblies
1295	Engine, Fuel and Control, Fuel Control Assembly Improved Throttle Return Spring--Add
1311	Engine, Fuel, Lube and Air System, Release of New Anti-Icing Valve, Modify
1312	Engine, Combustion Assembly, Compressor Air Discharge Tube 23035281, Replace
1316	Engine, Fuel and Control, Release of New Fuel Control with Stronger Bypass Valve Cover Retaining Screws - Modify
1323	Engine, Fuel and Control, Replace P/N 6848471 Tube Assemblies (C20F)

Page 1 of 1 Revised 6-1-93 by CK Finch, Assembly & Test Inspection.



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Allison Engine Company P.O. Box 420 Indianapolis, Indiana 46206-0420

THIS TURBINE CONFORMS TO THE FOLLOWING PUBLISHED CEB'S
250-C20B, C20F, C20J, C20S, C20W

TURBINE S/N CAT26374

This list includes Commercial Engine Bulletins on file as of _____.
As of this date, no outstanding Airworthiness Directives apply to this unit.

<u>CEB NO.</u>	<u>SUBJECT</u>
1001 thru) 1150 1155	Conforms as applicable.
1158	Engine, Power Turbine Support and Seal Assembly, Extend Inner Cross Section of Scavenge Oil Drain Strut
1161	Engine, Power Turbine Outer Coupling Nut - Rework
1173	Engine, Turbine Assembly No. 6 & 7 Bearing Pressure Oil Nozzle Assembly - Replace
1174	Engine, Turbine Inner and Outer P.T. Shafts - Replacement
1176	Engine, Turbine, Third Stage Turbine Wheel - Inspect or Replace
1178	Engine, Turbine P.T. Inner & Outer Shafts and Inner Coupling Nut - Electroless Nickel Plate Instead of Sermetel W or Alseal 500
1181	Engine, Turbine, P.T. Inner Shaft - Replace by Shaft with Increased Pilot Diameter OD
1183	Engine, Turbine Assembly, Modify 250-C20F for Series II Commonality
1204	Engine, G.P. Turbine Support Assembly Anti-Rotation Pin - Replace
1212	Engine, Turbine, Retaining Ring Nos. 6 & 7 Bearings - Replace
1221	Engine, Turbine Assembly, Gas Producer Rotor Assembly, Replace Tie Bolt by Tie Bolt of Improved Strength
1223	Engine, Power Turbine Support, Oil Sump Cover Assembly - Modify
1224	Engine, Turbine Assembly, Nozzle Shield Positioning Plug - Modify
1239	Engine, Turbine Assembly, Inner and Outer Power Turbine Shafts - Thicker Electroless Nickel Plate
1251	Engine, Turbine Assembly, "U" Ring Gasket Reinspection
1253	Engine, Turbine Assy, New Optimized Power Turbine Sump Clearances
1254	Engine, Turbine Assembly, 1st & 2nd Stage Turbine Nozzles - Modify for Incorporation of an Internal Energy Absorbing Ring
1255	Engine, Turbine Assembly, Gas Producer Support - Modify for Incorporation of an Internal Energy Absorbing Ring
1262	Engine, Turbine Assembly, Internal Energy Absorbing Ring - Add
1267	Engine, Turbine Assembly, First-Stage Nozzle Diaphragm Locating Key Welds - Modify
1276	Engine, Turbine Assembly, Second Stage Turbine Wheel, Reduced Diameter Balance Piston Seal Knife
1283	Engine, Turbine Assembly, Gas Producer Support, Addition of Brazed Wear Pads
1299	Engine, Turbine Assembly, Alseal Coating of Power Turbine Inner and Outer Shafts
1324	Engine, Turbine Assembly Combustion Liner, Rework
1326	Engine, Turbine Assembly, Release of New Horizontal Fireshield and Access Panel - Rework
	Engine, Turbine Assembly, Release of New No. 8 Bearing and Retaining Plate

Page 1 of 1 Revised 11-15-94 by CK Finca, Assembly & Test Inspection.



AEROSPACE GROUP



Allison Engine Company P.O. Box 420 Indianapolis, Indiana 46206-0420

THIS GEARBOX CONFORMS TO THE FOLLOWING PUBLISHED CEB'S
250-C20B, C20F, C20J, C20S, C20W

GEARBOX S/N CAG27728

This list includes Commercial Engine Bulletins on file as of _____.
As of this date, no outstanding Airworthiness Directives apply to this unit.

<u>CEB NO.</u>	<u>SUBJECT</u>
1001} thru} 1150}	Conforms as applicable.
1154	Gearbox, Oil Filter Differential Pressure Kit - Option
1157	Engine, Power and Accessory Gearbox PTO Gearshaft Grooves - Add
1165	Gearbox, Spare Accessory Drive (Vacuum/Hydraulic Pump) Installation - Remove
1166	Gearbox, Housing and Cover Oil Scavenge Ports Helical Coil Inserts - Add
1168	Gearbox - Cover Assembly - Replace Pinion Bearing Cage with Cage of New Harder Material
1177	Engine, Gearbox, Inspect Oil Delivery Tube (Piccolo) for Burrs Once Only
1192	Engine, Gearbox, Power Takeoff Gearshaft Retaining Ring - Add
1199	Engine, Gearbox Lubrication System - Change Oil Pump Attachment Bolts
1201	Engine, Gearbox Assembly, P/N 6859435 Bearing Manufactured by Marlin-Rockwell Corp. - Inspect Separator
1218	Engine, Gearbox Assembly, Scavenge Oil Pump Cover Assembly, Add Loctite to Gearshafts
1226	Engine, Accessory Gearbox Assembly, Through Bolt Retention of Idler Gears
1228	Engine, Gearbox Assy, New Accessory Drive System Bearing
1266	Engine, Accessory Gearbox Assembly, Centrifugal Breather Gear, Improved Configuration
1274	Engine, Gearbox Assembly, Installation of New 3 and 4 Roller Bearings
1288	Engine, Accessory Gearbox, Install New Pressure Oil Tube
1298	Engine, Gearbox Assembly, Turbine Pressure Oil Fitting, Add Seal
1320	Engine, Power and Accessory Gearbox Housing Assembly, Rework to Remove Web Wall Material from Casting Housing

Page 1 of 1 Revised 6-1-93 by CX Finch, Assembly & Test Inspection.



AEROSPACE
GROUP



Allison Engine Company P.O. Box 420 Indianapolis, Indiana 46206-0420

THIS COMPRESSOR CONFORMS TO THE FOLLOWING PUBLISHED CEB'S
250-C20B, C20F, C20J, C20S, C20W

COMPRESSOR S/N CAC42811

This list includes Commercial Engine Bulletins on file as of 7-26-95.
As of this date, no outstanding Airworthiness Directives apply to this unit.

<u>CEB NO.</u>	<u>SUBJECT</u>
1001} thru} 1150}	Conforms as applicable.
1171	Engine, Compressor #1 Bearing and Retaining Nut - Replace
1203	Engine, Compressor Assembly, Special Inspection of 6th Stage Compressor Wheel
1317	Engine, Compressor Assembly, Compressor Case, New Material Plastic, Add
1321	Engine, Compressor Assembly, Release of New Compressor Rotor Assembly - Modify
1325	Engine, Compressor Assembly, Release of New Compressor Coupling Adapter

Page 1 of 1 Revised 3-17-94 by CH Finch, Assembly & Test Inspection.

Approving National Aviation
Authority/Country:

FAA/UNITED STATES

2.

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:
AV0309201652 4541297

4. Organization Name and Address:

Aviall Services Inc.
2750 Regent Blvd
Dallas, TX 75261

5. Work Order/ Contract/Invoice Number:
CPOM250PROV-00810

6.Item:	7.Description:	8.Part Number:	9.Eligibility:	10.Quantity:	11.Serial/Batch Number:	12.Status/Work:
1	WHEEL, TURBINE 1ST STAGE	23073853	N/A	2	S/N: (X582010) X581308 $\Delta = 4,3 \pm$	NEW

13. Remarks:

BL
JOR
1518

Export Airworthiness approval

Export-This part meets the special requirements of BRAZIL

The part(s) shipped under this approval were produced by ROLLS-ROYCE CORPORATION

14. Certifies the items identified above were manufactured in conformity to:

- ☒ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

15. Authorized Signature:

Dave Taylor

16. Approval/Authorization No.:

DART-750293-SW

17. Name (Typed or Printed): DAVE TAYLOR

18. Date (m/d/y): Apr 05, 2010

19. ☐ 14 CFR 43.9 Return to Service

Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

20. Authorized Signature:

☐ Other regulation specified in Block 13

21. Approval/Certificate No.:

22. Name (Typed or Printed):

23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.
Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.

Improving National Aviation
Country:
AA/UNITED STATES

Organization Name and Address:

Aviall Services Inc.
2750 Regent Blvd
Dallas, TX 75261

AUTHORIZED RELEASE CERTIFICATE

FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG

3. Form Tracking Number:
AV1208119571 4541299

5. Work Order/ Contract/Invoice Number:
CPOM250PROV-00810

6.Item:	7.Description:	8.Part Number:	9.Eligibility:*	10.Quantity:	11.Serial/Batch Number:	12.Status/Work:
1	WHEEL TURBINE 2ND STAGE	23073854 	N/A	2	S/N: X587283 X587300	NEW

13. Remarks:

BL
JOR
1401

Export Airworthiness approval

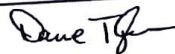
Export-This part meets the special requirements of BRAZIL

The part(s) shipped under this approval were produced by ROLLS-ROYCE CORPORATION

14. Certifies the items identified above were manufactured in conformity to:

- ☒ Approved design data and are in a condition for safe operation.
☐ Non-approved design data specified in Block 13.

15. Authorized Signature:



16. Approval/Authorization No.:
DART-750293-SW

17. Name (Typed or Printed): DAVE TAYLOR

18. Date (m/d/y): Apr 05, 2010

19. ☐ 14 CFR 43.9 Return to Service

☐ Other regulation specified in Block 13
Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.

20. Authorized Signature:

21. Approval/Certificate No.:

22. Name (Typed or Printed):

23. Date (m/d/y):

User/Installer Responsibilities

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly.

Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1.

Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the

1. País Country BRASIL		2. Título Title DEPARTAMENTO DE AVIAÇÃO CIVIL/CENTRO TÉCNICO AEROESPACIAL / BRAZILIAN CIVIL AVIATION AUTHORITY CERTIFICADO DE LIBERAÇÃO AUTORIZADA / AUTHORIZED RELEASE CERTIFICATE ETIQUETA DE APROVAÇÃO DE AERONAVEGABILIDADE / AIRWORTHINESS APPROVAL TAG Formulário / Form SEGVÔO 003				3. Certificado nº. Certificate no. / System tracking ref. RRB-A 0237/2010	
4. Empresa Organisation Rolls-Royce Brasil Rua Dr. Cincinato Braga, 47 – São Bernardo do Campo – São Paulo – Brasil CEP 09890-900 Telefone: 55 11 4390 4800 Fax: 55 11 4341 8071 7507-01/ANAC						5. Ordem de Serviço / Contrato / Nota Work Order, Contract or Invoice 361049	
6. Item Item	7. Descrição Description	8. Número da Peça Part Number	9. Aplicabilidade* Eligibility	10. Quantidade* Quantity	11. Número de Série / Lote Serial / Batch Number	12. Categoria / Trabalho Status / Work	
01	Disco de Turbina 4º Estágio	6853279	A ser verificado pelo instalador	01	HX67901	Revisado	
13. Observações / Remarks Serviços executados de acordo com o manual GTP5232-3 Tittle: Overhaul Manual Edition: 03 Revision: 12 Dated: September 15, 2009 (including up to TR E3R12-72-9 dated up to July 1, 2010). Disco de Turbina de 4º Estágio (TSN = 2613.0 horas / CSN = 3749 ciclos & TSO / CSO = 0) Dimensões do Disco (Diâmetro = 8.352") Disco Oriundo da CAT15932 (TSN = 2613.0 horas / CSN = 3749 ciclos & TSO / CSO = NEW). A descrição dos serviços realizados constam nos arquivos da Rolls-Royce Brasil sob, a ordem de serviço mencionada no campo 05. Partes com vida limitada devem ser acompanhadas de histórico de manutenção incluindo tempo total / ciclo total / tempo desde que novo. Limited parts must be accompanied by maintenance history including total time / total cycles / since new.							
14. Certifica que o(s) item(ns) acima identificado(s) foi (foram) fabricados em conformidade aos: Certifies that the article(s) identified above was (were) manufactured in conformity to: ☐ dados de projeto aprovados e está(ão) em condições segura de operação. approved design data and are in a condition for safe operation. ☐ dados de projeto não aprovado especificados no bloco 13. non-approved design data specified in block 13.			19. ☒ retorno ao serviço de acordo com RBHA 43.9 return to service in accordance with RBHA 43.9 Certifica que, a menos especificado no bloco 13, o trabalho especificado no bloco 12 e descrito no bloco 13 foi executado de acordo com o Regulamento Brasileiro de Homologação Aeronáutica – RBHA 43 e, em relação ao trabalho realizado, a(s) declaração(ões) aprovada(s) para retorno ao serviço. Certifies that, unless otherwise specified in block 13, the work identified in block 12 and described in block 13 was carried out in accordance with Brazilian Regulation for Aeronautical Certification – RBHA 43 and in respect to the work performed the part(s) is (are) approved for return to service.				
15. Assinatura do Representante do CTA Signature CTA Repr.		16. N.º Autorização do CTA CTA Authorization N.º		20. Pessoa Autorizada / Authorized Signature		21. N.º CHE / Certificate Number 7507-01/ANAC	
17. Nome Name		18. Data Date		22. Nome / Name Julio Martins		23. Data / Date 02 - Ago - 2010	

* O INSTALADOR DEVE FAZER VERIFICAÇÃO CRUZADA DA APLICABILIDADE ATRAVÉS DOS DADOS TÉCNICOS APLICÁVEIS. (INSTALLER MUST CROSS CHECK ELIGIBILITY WITH APPLICABLE TECHNICAL DATA)
RESPONSABILIDADE DO USUÁRIO / INSTALADOR USER / INSTALLER RESPONSABILITY

É importante compreender que a existência deste documento por si só não constitui automaticamente uma autorização para instalar a parte / componente / conjunto.

Se o trabalho do usuário/ instalador é realizado de acordo com os regulamentos nacionais de uma autoridade de aeronavegabilidade diferente da autoridade de aeronavegabilidade do país especificado no bloco 1, é essencial que o usuário/ instalador assegure que a sua autoridade de aeronavegabilidade aceita partes/ componentes/ conjuntos da autoridade de aeronavegabilidade do país especificado no bloco 1.

As declarações nos blocos 14 e 19 não constituem um certificado de instalação em todos os casos, os registros de manutenção da aeronave devem conter um certificado de instalação emitido de acordo com regulamentos nacionais pelo usuário/instalador antes que a aeronave possa ser liberada para voo.

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part / component / assembly.

Where the user/ installer work is performed in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/ installer ensures that his/ her airworthiness authority accepts parts/ components/ assemblies from the airworthiness authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user / installer before the aircraft may be flown.

1. País Country BRASIL		2. Título Title DEPARTAMENTO DE AVIAÇÃO CIVIL/CENTRO TÉCNICO AEROESPACIAL / BRAZILIAN CIVIL AVIATION AUTHORITY CERTIFICADO DE LIBERAÇÃO AUTORIZADA / AUTHORIZED RELEASE CERTIFICATE ETIQUETA DE APROVAÇÃO DE AERONAVEGABILIDADE / AIRWORTHINESS APPROVAL TAG Formulário / Form SEGVÃO 003				3. Certificado nº. Certificate no. / System tracking ref. RRB-D 093/06	
4. Empresa Organisation Rolls-Royce Brasil Rua Dr. Cincinato Braga, 47 – São Bernardo do Campo – São Paulo – Brasil CEP 09890-900 Telefone: 55 11 4390 4800 Fax: 55 11 4341 8071 7507-01/DAC				5. Ordem de Serviço / Contrato / Nota Work Order, Contract or Invoice 214185			
6. Item Item	7. Descrição Description	8. Número da Peça Part Number	9. Aplicabilidade* Eligibility	10. Quantidade* Quantity	11. Número de Série / Lote Serial / Batch Number	12. Categoria / Trabalho Status / Work	
1	Módulo Rolls Royce 250-C20j	23038241	A ser verificado pelo instalador.	01	CAT26374	Reparado	
13. Observações / Remarks Edição 2 Módulo de Turbina removido de operação para ser submetido a H.M.I. conforme instruções da carta de serviço CSL 1165. Os seguintes itens foram substituídos por peças novas: Discos 1º estágio (P/Nº 23073853 e S/Nº X507782) e 2º estágio (P/Nº 23073854 e S/Nº X503287), parafuso tirante e adaptador estriado do disco de 2º estágio. A lâmina guia (NGV) do 2º estágio foi substituída por um componente revisado. Os seguintes boletins foram incorporados: A-1342; 1371 E A-1375. O boletim CEB A-1370 - inspeção do escudo de 1º estágio - não aplicável ao escudo p/nº 6890040 instalado neste módulo. Módulo submetido a teste funcional em banco de provas e considerado satisfatório para retorno ao serviço, estando com TSN = 1760.4 hrs/ CSN = 1861 ciclos e TSO/CSO = NOVO. Duração do ensaio: 00:46 horas e 02 ciclos. Partes com vida limitada devem ser acompanhadas de histórico de manutenção incluindo tempo total / ciclo total / tempo desde que novo. Limited parts must be accompanied by maintenance history including total time / total cycles / since new.							
14. Certifica que o(s) item(ns) acima identificado(s) foi (foram) fabricados em conformidade aos: Certifies that the article(s) identified above was (were) manufactured in conformity to: ☐ dados de projeto aprovados e está(ão) em condições seguras de operação. approved design data and are in a condition for safe operation. ☐ dados de projeto não aprovado especificados no bloco 13. non-approved design data specified in block 13			19. ☒ retorno ao serviço de acordo com RBHA 43.9 return to service in accordance with RBHA 43.9 ☐ outros regulamentos especificados no bloco 13 other regulations specified in block 13 Certifica que, a menos especificado no bloco 13, o trabalho especificado no bloco 12 e descrito no bloco 13 foi executado de acordo com o Regulamento Brasileiro de Homologação Aeronáutica – RBHA 43 e, em relação ao trabalho realizado, a(s) peça(s) é (são) aprovada(s) para retorno ao serviço. Certifies that, unless otherwise specified in block 13, the work identified in block 12 and described in block 13 was carried out in accordance with Brazilian Regulation for Aeronautical Certification – RBHA 43 and in respect to the work performed the part(s)* is (are) approved for return to service.				
15. Assinatura do Representante do CTA Signature CTA Repr.		16. Nº. Autorização do CTA CTA Authorization Nº.		20. Pessoa Autorizada / Authorized Signature 		21. Nº CHE / Certificate Number 7507-01/DAC	
17. Nome Name		18. Data Date		22. Nome / Name Augusto Reis Oliveira		23. Data / Date 28/04/2006	

* O INSTALADOR DEVE FAZER VERIFICAÇÃO CRUZADA DA APLICABILIDADE ATRAVÉS DOS DADOS TÉCNICOS APLICÁVEIS. (INSTALLER MUST CROSS CHECK ELIGIBILITY WITH APPLICABLE TECHNICAL DATA)
RESPONSABILIDADE DO USUÁRIO / INSTALADOR USER / INSTALLER RESPONSABILITY

É importante compreender que a existência deste documento por si só não constitui automaticamente uma autorização para instalar a parte / componente / conjunto.

Se o trabalho do usuário/ instalador é realizado de acordo com os regulamentos nacionais de uma autoridade de aeronavegabilidade diferente da autoridade de aeronavegabilidade do país especificado no bloco 1, é essencial que o usuário/ instalador assegure que a sua autoridade de aeronavegabilidade aceita partes/ componentes/ conjuntos da autoridade de aeronavegabilidade do país especificado no bloco 1.

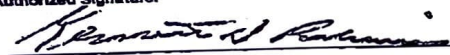
As declarações nos blocos 14 e 19 não constituem um certificado de instalação em todos os casos, os registros de manutenção da aeronave devem conter um certificado de instalação emitido de acordo com regulamentos nacionais pelo usuário/instalador antes que a aeronave possa ser liberada para voo.

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part / component / assembly.

Where the user/ installer work is performed in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/ installer ensures that his/ her airworthiness authority accepts parts/ components/ assemblies from the airworthiness authority of the country specified in block 1.

Statements in block 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user / installer before the aircraft may be flown.

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG			3. Form Tracking Number: AV1202490685 000253	
4. Organization Name and Address: Aviall 2750 Regent Blvd. Dallas, Texas 75261 5. Work Order/ Contract/Invoice Number: CPOAVIALLPROV15-1202						
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:
01	WHEEL, TURBINE 1ST STAGE	23073853	ALLISON 250-C20 E4CE	2	SNL X507685 X507782	NEW
13. Remarks: **EXPORT** BRAZIL						
14. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.				19. ☒ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.		
15. Authorized Signature: 		16. Approval/Authorization No.: DART-710600-SW		20. Authorized Signature:		21. Approval/Certificate No.:
17. Name (Typed or Printed): KENNETH D. ROBINSON		18. Date (m/d/y): 01/06/2003		22. Name (Typed or Printed):		23. Date (m/d/y):
User/Installer Responsibilities						
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.						

1. Approving National Aviation Authority/Country: FAA/UNITED STATES		2. AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3, AIRWORTHINESS APPROVAL TAG				3. Form Tracking Number: AV0901262438 000126	
4. Organization Name and Address: Aviall 2750 Regent Blvd. Dallas, Texas 75261 5. Work Order/ Contract/Invoice Number: CPOPROV/5732							
6. Item:	7. Description:	8. Part Number:	9. Eligibility:*	10. Quantity:	11. Serial/Batch Number:	12. Status/Work:	
01	WHEEL TURBINE 2ND STAGE	23073854	ALLISON 250-C20 E4CE	1	S/N- X503287  01 JUL 2002	NEW	
13. Remarks: **EXPORT** BRAZIL							
14. Certifies the items identified above were manufactured in conformity to: ☒ Approved design data and are in a condition for safe operation. ☐ Non-approved design data specified in Block 13.				19. ☐ 14 CFR 43.9 Return to Service ☐ Other regulation specified in Block 13 Certifies that unless otherwise specified in Block 13, the work identified in Block 12 and described in Block 13 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for return to service.			
15. Authorized Signature: 		16. Approval/Authorization No.: DART-710600-SW		20. Authorized Signature:		21. Approval/Certificate No.:	
17. Name (Typed or Printed): KENNETH D. ROBINSON		18. Date (m/d/y): 06/07/2002		22. Name (Typed or Printed):		23. Date (m/d/y):	
User/Installer Responsibilities							
It is important to understand that the existence of this document alone does not automatically constitute authority to install the part/component/assembly. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts parts/components/assemblies from the airworthiness authority of the country specified in Block 1. Statements in Blocks 14 and 19 do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.							

1. País Country BRASIL		2. Título Title DEPARTAMENTO DE AVIAÇÃO CIVIL/CENTRO TÉCNICO AEROESPACIAL / BRAZILIAN CIVIL AVIATION AUTHORITY CERTIFICADO DE LIBERAÇÃO AUTORIZADA / AUTHORIZED RELEASE CERTIFICATE ETIQUETA DE APROVAÇÃO DE AERONAVEGABILIDADE / AIRWORTHINESS APPROVAL TAG Formulário / Form SEGVÔO 003				3. Certificado nº. Certificate no. / System tracking ref. RRB-D 065/03	
4. Empresa Organisation Rolls-Royce Brasil Rua Dr. Cincinato Braga, 47 – São Bernardo do Campo – São Paulo – Brasil CEP 09890-900 Telefone: 55 11 4390 4800 Fax: 55 11 4341 8071 7507-01/DAC		5. Ordem de Serviço / Contrato / Nota Work Order, Contract or Invoice 213952					
6. Item Item	7. Descrição Description	8. Número da Peça Part Number	9. Aplicabilidade* Eligibility	10. Quantidade* Quantity	11. Número de Série / Lote Serial / Batch Number	12. Categoria / Trabalho Status / Work	
1	Módulo Rolls Royce 250-C20B	6898735	A ser verificado pelo instalador.	01	CAT36887	Inspeccionado	
13. Observações / Remarks Módulo de Turbina submetido a inspeção após retorno de locação, sendo que o conjunto dos termoelementos s/nº FF5212Q foi submetido a teste elétrico. Nenhum boletim foi aplicado durante esta inspeção. Módulo de propriedade da Rolls Royce Brasil despachado sem teste em banco de provas, estando com TSN = 3464,5 hrs / CSN = 3074 ciclos.							
Partes com vida limitada devem ser acompanhadas de histórico de manutenção incluindo tempo total / ciclo total / tempo desde que novo. Limited parts must be accompanied by maintenance history including total time / total cycles / since new.							
14. Certifica que o(s) item(ns) acima identificado(s) foi (foram) fabricados em conformidade aos: Certifies that the article(s) identified above was (were) manufactured in conformity to: ☐ dados de projeto aprovados e está(ão) em condições segura de operação. approved design data and are in a condition for safe operation. ☐ dados de projeto não aprovado especificados no bloco 13. non-approved design data specified in block 13			19. ☒ retorno ao serviço de acordo com RBHA 43.9 return to service in accordance with RBHA 43.9 ☐ outros regulamentos especificados no bloco 13 other regulations specified in block 13 Certifica que, a menos especificado no bloco 13, o trabalho especificado no bloco 12 e descrito no bloco 13 foi executado de acordo com o Regulamento Brasileiro de Homologação Aeronáutica – RBHA 43 e, em relação ao trabalho realizado, a(s) peça(s) é (são) aprovada(s) para retorno ao serviço. Certifies that, unless otherwise specified in block 13, the work identified in block 12 and described in block 13 was carried out in accordance with Brazilian Regulation for Aeronautical Certification – RBHA 43 and in respect to the work performed the part(s)* is (are) approved for return to service.				
15. Assinatura do Representante do CTA Signature CTA Repr.		16. Nº. Autorização do CTA CTA Authorization Nº.		20. Pessoa Autorizada / Authorized Signature 		21. Nº CHE / Certificate Number 7507-01/DAC	
17. Nome Name		18. Data Date		22. Nome / Name Karim Naser I. Shaaban		23. Data / Date 25/02/2003	

* O INSTALADOR DEVE FAZER VERIFICAÇÃO CRUZADA DA APLICABILIDADE ATRAVÉS DOS DADOS TÉCNICOS APLICÁVEIS. (INSTALLER MUST CROSS CHECK ELIGIBILITY WITH APPLICABLE TECHNICAL DATA)
RESPONSABILIDADE DO USUÁRIO / INSTALADOR **USER / INSTALLER RESPONSABILITY**

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Se o trabalho do usuário/ instalador é realizado de acordo com os regulamentos nacionais de uma autoridade de aeronavegabilidade diferente da autoridade de aeronavegabilidade do país especificado no bloco 1, é essencial que o usuário/ instalador assegure que a sua autoridade de aeronavegabilidade aceita partes/ componentes/ conjuntos da autoridade de aeronavegabilidade do país especificado no bloco 1.

As declarações nos blocos 14 e 19 não constituem um certificado de instalação em todos os casos, os registros de manutenção da aeronave devem conter um certificado de instalação emitido de acordo com regulamentos nacionais pelo usuário/instalador antes que a aeronave possa ser liberada para voo.

It is important to understand that the existence of this document alone does not automatically constitute authority to install the part / component / assembly.

Where the user/ installer work is performed in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in block 1, it is essential that the user/ installer ensures that his/ her airworthiness authority accepts parts/ components/ assemblies from the airworthiness authority of the country specified in block 1.

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