EASA SIB No: 2008-49R1



EASA Safety Information Bulletin

SIB No.: 2008-49R1 Issued: 07 May 2012

Subject: Rolls-Royce Deutschland BR700-710 Engines – Re-use of

Potentially Damaged Engine Parts and Components

Ref. Publication: Rolls-Royce Deutschland Ltd & Co KG (RRD) Worldwide

Communication (WW) 20209 issue 2 dated 19 April 2012.

Applicability: BR700-710 engine serial numbers 12533 and 12534; any

parts or components of those individual engines held as spares, as listed in RRD WW 20209 issue 2 (which is attached to, and part of, this SIB); and any BR700-710 series

engines which have parts or components installed that can be traced to having previously been installed on either of these

individual engines.

BR700-710 engines are known to be installed on, but not limited to, Bombardier Inc. BD-700 'Global Express' and Gulfstream Aerospace Corporation GV and GV-SP (including the commercial designation G500 and G550 variants) series

aeroplanes.

Description: RRD, the Type Certificate holder of the BR700-710 series

engine type design, has published the referenced advisory document (attached as pages 3 through 11 of this SIB) to inform operators and aeroplane manufacturers to make them aware of potential re-use of damaged BR700-710 material.

After reviewing the available information, EASA published the original SIB 2008-49 to ensure that all owners, operators and manufacturers of aeroplanes that have BR700-710 engines

installed, are aware of the RRD WW 20209.

This SIB has been revised to confirm that the parts and components, listed in Table 1 (see page 2 of this SIB), which are not part of the BR700-710 engine design, have been deleted from the RRD WW 20209 parts list at issue 2 and are therefore no longer subject to the recommendations of that

document.

Contact(s): For further information contact the Safety Information Section,

Executive Directorate, EASA. E-mail: ADs@easa.europa.eu.

Table 1 – Lists of part and components which are no longer subject to the recommendations of RRD WW 20209 at issue 2

Engine Serial Number 12533		
Part Number	Part Name	Serial Number
07C0001-005	Nose Cowl Fully Equipped	E215
07D0001-013	Fan Cowl Door Upper	E215/SB2636
07D1001-017	Fan Cowl Door Lower	E215/SB2638
07E0001-023	Apron Assembly	E215
GL511-1103-5	VF Generator (BFE)	2252
GL511-1103-5	VF Generator (BFE)	2249
GX472-0010-1	Hydraulic Pump (BFE)	K0472
GG436-1002-3	Check Valve (BFE)	533
GG436-1003-9	Valve Press Regulating (BFE)	612
GG436-1001-7	Valve 8th Stage (BFE)	587
GG436-1018-1	Pressure transducer (BFE)	696

Engine Serial Number 12534		
Part Number	Part Name	Serial Number
07C0001-006	Nose Cowl Fully Equipped	E215
07D0001-014	Fan Cowl Door Upper	E215/SB2637
07D1002-017	Fan Cowl Door Lower	E215/SB2639
07E0001-024	Apron Assembly	E215
GL511-1103-5	VF Generator (BFE)	2251
GL511-1103-5	VF Generator (BFE)	2248
GX472-0010-1	Hydraulic Pump (BFE)	K0469
GG436-1002-3	Check Valve (BFE)	549
GG436-1003-9	Valve Press Regulating (BFE)	586
GG436-1001-7	Valve 8th Stage (BFE)	589
GG436-1018-1	Pressure transducer (BFE)	517

This is information only. Recommendations are not mandatory. EASA Form 117



WORLDWIDE COMMUNICATION

ATA ref: 72

Reference No: WW Number: 20209

Issue: 2

Date: 2012-4-19

Issued to BR700-710A2-20 BR700-710C4-11

BR700-710A1-10

Bombardier Aerospace Gulfstream Aerospace Corporation

Regional Customer Managers

Subject: BR710, Re-use of Potentially Damaged Engine Material

Attachment: No

Action: No

This communication is issued to all BR710 operators and airframers to make them aware of potential re-use of damaged BR710 engine material. Following receipt of additional information, this communication is updated to amend the list of affected parts that are subject to the conditions below.

In November 2007, a BR710 powered aircraft was damaged during a landing attempt. Subsequent investigation has concluded that the engines, serial numbers 12533 and 12534, were not contributory to the incident, but these engines are unserviceable due to the report by the aircraft manufacturer of loads beyond the engines' certified envelope. The purpose of this communication is to make operators aware of the potential re-use of material from these engines and Rolls-Royce's position on this situation.

During the incident, the main landing gear collapsed sending the plane spinning and skidding on the runway. Having reviewed data from the aircraft manufacturer's engineers, the loads exerted on the engines during this event appear to be outside of the approved design and test criteria. Therefore, reuse of parts from these engines could present a potential safety issue.

EASA may follow up this worldwide communication update with an update to its safety information bulletin 2008-49, which covers the same incident.

The attached sheets list the serial numbers of the major engine parts/material understood to be fitted to these two engines. Should any of these parts/material be contributory to a future operational event Rolls-Royce will be under the obligation to advise the aviation authorities of the history of the parts/material involved. Rolls-Royce advises that the parts/material from these engines as listed in this communication are not covered under any Rolls-Royce warranty.

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WORLDWIDE COMMUNICATION

If you have any questions regarding this communication, please contact your Rolls-Royce Regional Customer Manager.

Kind regards,

Andy Robinson Senior Vice President Customer Services Civil Small & Medium Engines Rolls-Royce North America

-Valid without signature as electronically distributed-



List of serialized parts

Engine 12533

Partnumber	Part Name	Serialnumber
BRR24368	FAIRING,NOSECONE-ASSY OF	BA81614
828200-2	PUMP, FUEL UNIT	1118
8910-214	MANIFOLD, SPLT.& O/S UNIT	14721983
6940426E14	BURNER-ASSY OF, FUEL	N20110
6940426E14	BURNER-ASSY OF, FUEL	N20111
6940426E14	BURNER-ASSY OF, FUEL	N20113
6940426E14	BURNER-ASSY OF, FUEL	N20112
6940426E14	BURNER-ASSY OF, FUEL	N20115
6940426E14	BURNER-ASSY OF, FUEL	N20117
6940426E14	BURNER-ASSY OF, FUEL	N20119
6940426E14	BURNER-ASSY OF, FUEL	N20121
6940426E14	BURNER-ASSY OF, FUEL	N20123
6940426E14	BURNER-ASSY OF, FUEL	N20129
6940426E14	BURNER-ASSY OF, FUEL	N20128
6940426E14	BURNER-ASSY OF, FUEL	N20127
6940426E14	BURNER-ASSY OF, FUEL	N20126
6940426E14	BURNER-ASSY OF, FUEL	N20125
6940426E14	BURNER-ASSY OF, FUEL	N20124
6940426E14	BURNER-ASSY OF, FUEL	N20122
6940426E14	BURNER-ASSY OF, FUEL	N20120
6940426E14	BURNER-ASSY OF, FUEL	N20118
6940426E14	BURNER-ASSY OF, FUEL	N20116
6940426E14	BURNER-ASSY OF, FUEL	N20114
8061-977	METER,FUEL UNIT (FMU)	14660368
83311-430242	ROTOR, DEDICATED GENERATOR	3318
83311-430117	GENERATOR, DEDIC. STATOR	3343
8910-312	VALVE,FUEL RETURN TO TANK	14635370
21SN04-430	SWITCH,FUEL FILTER DIFF P	G006091
21SN04-433	SWITCH,FUEL LOW PRESSURE	G004379
1122806	TRANSDUCER,FUEL/OIL TEMP	M8606
1122806	TRANSDUCER,FUEL/OIL TEMP	M8619
1122806	TRANSDUCER,FUEL/OIL TEMP	M9131
TC428-01	PROBE,T30 THERMOCOUPLE	RRAD0829
TC428-01	PROBE,T30 THERMOCOUPLE	RRAD0810
9-217-82	TRANSMITTER,FUEL FLOW	235682-37
1520KDC09-010	CONTROLLER,ELECTR.ENGINE	BX660244
LR47000C	PUMP,OIL UNIT	C0171
55007001-41	COOLER,OIL FUEL COOLED	55007-1101
PDCR300164001M1	TRANSDUCER,OIL DIFFR. PR	2249880
PDCR300164001M1	TRANSDUCER,OIL DIFFR. PR	2258022
21SN04-472	SWITCH,OIL FILTER DIFF PR	G016543
1122806	TRANSDUCER,FUEL/OIL TEMP	M8608
1122806	TRANSDUCER,FUEL/OIL TEMP	M8611



QA07508	INDICATER,OIL FLTR POP-UP	RQ4-2187
9060440-2	IGNITION,UNIT	06118763
9060440-2	IGNITION,UNIT	06118764
EB100420D	VALVE, HANDLING BLEED	EMG128
EB100420D	VALVE, HANDLING BLEED	EMG207
EB100420D	VALVE, HANDLING BLEED	EMG208
EB100420D	VALVE, HANDLING BLEED	EMG206
8100-115	ACTUATOR, VANE STATOR VAR	14678799
8910-512	VALVE, AIR BUFFER	14671603
EA100118G	SOLENOID, HANDL. BLEED VALV	EMG301
3505934-8	STARTER, AIR TURBINE	0506-1697
8TC60AAC1	PROBE,THERMOCOUPLE	MF004162
8TC60AAC1	PROBE,THERMOCOUPLE	MF004186
8TC60AAC1	PROBE,THERMOCOUPLE	MF004676
	PROBE,THERMOCOUPLE	MF004684
8TC60AAC1 8TC60AAC1	PROBE, THERMOCOUPLE	MF004655
8TC60AAC1	PROBE,THERMOCOUPLE	MF004035
8TC60AAC1	PROBE,THERMOCOUPLE	MF004175
920-4-14	THERMOCOUPLE, TRB DISC O/H	2309
920-4-14	THERMOCOUPLE, TRB DISC O/H	2311
889-3-13	PROBE,N2 SHAFT SPEED,HPC	6109
889-3-13	PROBE,N2 SHAFT SPEED,HPC	6111
889-3-13	PROBE,N2 SHAFT SPEED,HPC	6112
889-3-13	PROBE,N2 SHAFT SPEED,HPC	6110
CV41-14-2	PUMP,DRAINS EJECTOR	06-0309168
473899	WIRE, FIRE CORE	0424
50043001-11	COOLER, VFG OIL AIR COOLED	50043-1104
50042001-11	COOLER, VFG OIL AIR COOLED	50042-1101
FW33927	DISC,ASSY	STDK34924
BRR22626	FILLER ASSY	HLAH35150
BRR22626	FILLER ASSY	HLAH35157
BRR22626	FILLER ASSY	HLAH35159
BRR22626	FILLER ASSY	HLAH35161
BRR22626	FILLER ASSY	HLAH35164
BRR22626	FILLER ASSY	HLAH49893
BRR22626	FILLER ASSY	HLAH49891
BRR22626	FILLER ASSY	HLAH49887
BRR22626	FILLER ASSY	HLAH49884
BRR22626	FILLER ASSY	HLAH49883
BRR22626	FILLER ASSY	HLAH49882
BRR22626	FILLER ASSY	HLAH49881
BRR22626	FILLER ASSY	HLAH35242
BRR22626	FILLER ASSY	HLAH35168
BRR22626	FILLER ASSY	HLAH49965
BRR22626	FILLER ASSY	HLAH49899
BRR22626	FILLER ASSY	HLAH49894
BRR22626	FILLER ASSY	HLAH35162



BRR22626	FILLER ASSY	HLAH35160
BRR22626	FILLER ASSY	HLAH35158
BRR22626	FILLER ASSY	HLAH35155
BRR22626	FILLER ASSY	HLAH35152
BRR22626	FILLER ASSY	HLAH35154
BRR22626	FILLER ASSY	HLAH35153
BRR24148	BEARING-ASSY OF	826
BRR12474	RING,BEARING,OUTER	952
BRR23643	BEARING-ASSY,INNER,REAR	770
BRR23914	SHAFT-ASSY OF FAN	CL20052
BRR22752	CASE ASSY,INTERMEDTE COMP	00860
BRR22056	BEARING ASSY OF - NO.3	1037
1022-1-11	PROBE,LPC TRIM BALANCE	2987
1022-1-11	PROBE,LPC TRIM BALANCE	2988
1022-1-11	PROBE,LPC TRIM BALANCE	2990
1022-1-11	PROBE,LPC TRIM BALANCE	2989
BRR24382	ROTOR-ASSY,HPC STG.1-6	2162
BRR24357	ROTOR-ASSY,HPC STG.7-10	3242
BRR21927	NOZZLE-ASSY OF, HPC	1457
BRH20340	RING,CURVIC HPT	6416
BRR23952	DISC,HPT STG.1	LDRQA00960
BRR22008	DISC,HPT STG.2	LDRQA01244
BRR24545	SHAFT-ASSY OF	404
BRR23504	HOUSING-ASSY OF,SUPPORT	00991
BRR19612	SHAFT, TURBINE LP	SBAN655
BRR15535	DISC,LPT STG.1	6370
BRR11896	DISC,LPT STG.2	6364
BRR40703	SHAFT-ASSY OF,STUB	831
39600219	GEARBOX-ASSY OF,ACCES.	629
07G0001-009	Thrust Reverser	LH431
APTE-257-1000-75G	Pressure transducer (KULITE)	7168-6-417
510-0020-5	Tai Valve - Grimes	D0395
540-1394-2	Valve in line pressure limiter	D0496
3291182-4	Valve Air Starter Control	0406-1859
BRR24405	Link Assy Front Mount	THEAP9885
BRR24405	Link Assy Front Mount	THEAP9886
BRR15812	Pin Mount to Beam Attach	155033027
BRR15812	Pin Mount to Beam Attach	155033004
BRR15835	Pin Mount Beam to Link	KWBB884
BRR15835	Pin Mount Beam to Link	KWBB882
BRR22163	Thrust Union Pin/Bearing Assy	K055950
BRR24413	Link Assy Rear Mount	THEAP9657
BRR24413	Link Assy Rear Mount	THEAP9660
BRR15838	Pin Link to Mount Ring	KWBC915
BRR15838	Pin Link to Mount Ring	KWBC918
BRR15824	Pin Thrust Strut to Pylon	147591039
BRR17672	Strut Assy - Thrust	D8076
1		



BRR15809	Pin Thrust Struts Attach	153949006
BRR24391	Mount Beam Assy LH	BSTDK0111
BRR15805	Pin Pylon Attachment	KWBA903
BRR15805	Pin Pylon Attachment	KWBA906
BRR24407	Mount Assy of Beam Rear	EEAP5543
BRR15840	Pin Mount Beam to Pylon	KWBD917
BRR15840	Pin Mount Beam to Pylon	KWBD916

Engine 12534

Partnumber	Part Name	Serialnumber
BRR24368	FAIRING,NOSECONE-ASSY OF	BA81621
828200-2	PUMP, FUEL UNIT	1285
8910-214	MANIFOLD, SPLT.& O/S UNIT	14695755
6940426E14	BURNER-ASSY OF, FUEL	N20150
6940426E14	BURNER-ASSY OF, FUEL	N20151
6940426E14	BURNER-ASSY OF, FUEL	N20153
6940426E14	BURNER-ASSY OF, FUEL	N20152
6940426E14	BURNER-ASSY OF, FUEL	N20154
6940426E14	BURNER-ASSY OF, FUEL	N20156
6940426E14	BURNER-ASSY OF, FUEL	N20158
6940426E14	BURNER-ASSY OF, FUEL	N20160
6940426E14	BURNER-ASSY OF, FUEL	N20162
6940426E14	BURNER-ASSY OF, FUEL	N20169
6940426E14	BURNER-ASSY OF, FUEL	N20168
6940426E14	BURNER-ASSY OF, FUEL	N20167
6940426E14	BURNER-ASSY OF, FUEL	N20166
6940426E14	BURNER-ASSY OF, FUEL	N20165
6940426E14	BURNER-ASSY OF, FUEL	N20164
6940426E14	BURNER-ASSY OF, FUEL	N20163
6940426E14	BURNER-ASSY OF, FUEL	N20161
6940426E14	BURNER-ASSY OF, FUEL	N20159
6940426E14	BURNER-ASSY OF, FUEL	N20157
6940426E14	BURNER-ASSY OF, FUEL	N20155
8061-977	METER, FUEL UNIT (FMU)	14647725
83311-430242	ROTOR, DEDICATED GENERATOR	3415
83311-430117	GENERATOR, DEDIC. STATOR	3420
8910-312	VALVE,FUEL RETURN TO TANK	14677836
21SN04-430	SWITCH,FUEL FILTER DIFF P	F046315
21SN04-433	SWITCH,FUEL LOW PRESSURE	G000670
1122806	TRANSDUCER,FUEL/OIL TEMP	M8607
1122806	TRANSDUCER,FUEL/OIL TEMP	M8622
1122806	TRANSDUCER, FUEL/OIL TEMP	M8609
TC428-01	PROBE,T30 THERMOCOUPLE	RRAD0830
TC428-01	PROBE,T30 THERMOCOUPLE	RRAD0807
9-217-82	TRANSMITTER,FUEL FLOW	235682-40
1520KDC09-010	CONTROLLER, ELECTR. ENGINE	BX660181

LR47000C	PUMP,OIL UNIT	C0172
55007001-41	COOLER,OIL FUEL COOLED	55007-1099
PDCR300164001M1	TRANSDUCER,OIL DIFFR. PR	2256644
PDCR300164001M1	TRANSDUCER,OIL DIFFR. PR	2256648
21SN04-472	SWITCH,OIL FILTER DIFF PR	F032117
1122806	TRANSDUCER,FUEL/OIL TEMP	M5410
1122806	TRANSDUCER,FUEL/OIL TEMP	M8616
QA07508	INDICATER,OIL FLTR POP-UP	RQ4-5543
9060440-2	IGNITION,UNIT	05502787
9060440-2	IGNITION,UNIT	05502789
EB100420D	VALVE, HANDLING BLEED	EMC454
EB100420D	VALVE, HANDLING BLEED	EMC456
EB100420D	VALVE, HANDLING BLEED	EMC457
EB100420D	VALVE, HANDLING BLEED	EMC455
8100-115	ACTUATOR, VANE STATOR VAR	14652400
8910-512	VALVE,AIR BUFFER	14688564
EA100118G	SOLENOID,HANDL.BLEED VALV	EMC399
3505934-8	STARTER,AIR TURBINE	0506-1696
8TC60AAC1	PROBE,THERMOCOUPLE	MF004152
8TC60AAC1	PROBE,THERMOCOUPLE	MF004170
8TC60AAC1	PROBE,THERMOCOUPLE	MF004200
8TC60AAC1	PROBE,THERMOCOUPLE	MF004197
8TC60AAC1	PROBE,THERMOCOUPLE	MF004181
8TC60AAC1	PROBE,THERMOCOUPLE	MF004178
8TC60AAC1	PROBE,THERMOCOUPLE	MF004167
920-4-14	THERMOCOUPLE,TRB DISC O/H	2313
920-4-14	THERMOCOUPLE,TRB DISC O/H	2312
889-3-13	PROBE,N2 SHAFT SPEED,HPC	7722
889-3-13	PROBE,N2 SHAFT SPEED,HPC	7725
889-3-13	PROBE,N2 SHAFT SPEED,HPC	7723
889-3-13	PROBE,N2 SHAFT SPEED,HPC	7724
CV41-14-2	PUMP,DRAINS EJECTOR	06-041229
473899	WIRE, FIRE CORE	0415
50043001-11	COOLER,VFG OIL AIR COOLED	50043-1101
50042001-11	COOLER,VFG OIL AIR COOLED	50042-1102
FW33927	DISC,ASSY	STDK34921
BRR22626	FILLER ASSY	HLAH49756
BRR22626	FILLER ASSY	HLAH49758
BRR22626	FILLER ASSY	HLAH49759
BRR22626	FILLER ASSY	HLAH49763
BRR22626	FILLER ASSY	HLAH49762
BRR22626	FILLER ASSY	HLAH49761
BRR22626	FILLER ASSY	HLAH49766
BRR22626	FILLER ASSY	HLAH49772
BRR22626	FILLER ASSY	HLAH49775
BRR22626	FILLER ASSY	HLAH49788
BRR22626	FILLER ASSY	HLAH49787



BRR22626	FILLER ASSY	HLAH49786
BRR22626	FILLER ASSY	HLAH49784
BRR22626	FILLER ASSY	HLAH49782
BRR22626	FILLER ASSY	HLAH49780
BRR22626	FILLER ASSY	HLAH49779
BRR22626	FILLER ASSY	HLAH49777
BRR22626	FILLER ASSY	HLAH49776
BRR22626	FILLER ASSY	HLAH49795
BRR22626	FILLER ASSY	HLAH49794
BRR22626	FILLER ASSY	HLAH49791
BRR22626	FILLER ASSY	HLAH49790
BRR22626	FILLER ASSY	HLAH49773
BRR22626	FILLER ASSY	HLAH49770
BRR24148	BEARING-ASSY OF	827
BRR12474	RING,BEARING,OUTER	965
BRR23643	BEARING-ASSY,INNER,REAR	763
BRR23914	SHAFT-ASSY OF FAN	CL20065
BRR22752	CASE ASSY,INTERMEDTE COMP	00847
BRR22056	BEARING ASSY OF - NO.3	1029
1022-1-11	PROBE,LPC TRIM BALANCE	2832
1022-1-11	PROBE,LPC TRIM BALANCE	2833
1022-1-11	PROBE,LPC TRIM BALANCE	2835
1022-1-11	PROBE,LPC TRIM BALANCE	2834
BRR24382	ROTOR-ASSY,HPC STG.1-6	2161
BRR24357	ROTOR-ASSY,HPC STG.7-10	3256
BRR21927	NOZZLE-ASSY OF, HPC	1453
BRH20340	RING,CURVIC HPT	6403
BRR23952	DISC,HPT STG.1	LDRQA01034
BRR22008	DISC,HPT STG.2	LDRQA01075
BRR24545	SHAFT-ASSY OF	388
BRR23504	HOUSING-ASSY OF, SUPPORT	00948
BRR19612	SHAFT, TURBINE LP	SBAN653
BRR15535	DISC,LPT STG.1	6350
BRR11896	DISC,LPT STG.2	6358
BRR40703	SHAFT-ASSY OF,STUB	837
39600219	GEARBOX-ASSY OF,ACCES.	623
07G0001-011	Thrust Reverser	RH430
APTE-257-1000-75G		7168-6-409
510-0020-5	Tai Valve – Grimes	D0394
540-1394-2	Valve in line pressure limiter	D0483
3291182-4	Valve Air Starter Control	0206-1840
BRR24405	Link Assy Front Mount	THEAP9750
BRR24405	Link Assy Front Mount	THEAP9751
BRR15812	Pin Mount to Beam Attach	155033030
BRR15812	Pin Mount to Beam Attach	155033030
BRR15835	Pin Mount Beam to Link	KWBB976
BRR15835	Pin Mount Beam to Link	KWBB974

WORLDWIDE COMMUNICATION

Thrust Union Pin/Bearing Assy	K055951
Link Assy Rear Mount	THEAP9684
Link Assy Rear Mount	THEAP9683
Pin Link to Mount Ring	KWBC973
Pin Link to Mount Ring	KWBC976
Pin Thrust Strut to Pylon	147591022
Strut Assy - Thrust	D8087
Pin Thrust Struts Attach	153949018
Mount Beam Assy RH	BSTDK0120
Pin Pylon Attachment	KWBA950
Pin Pylon Attachment	KWBA949
Mount Assy of Beam Rear	EEAP5544
Pin Mount Beam to Pylon	KWBD910
Pin Mount Beam to Pylon	KWBD915
	Link Assy Rear Mount Link Assy Rear Mount Pin Link to Mount Ring Pin Link to Mount Ring Pin Thrust Strut to Pylon Strut Assy - Thrust Pin Thrust Struts Attach Mount Beam Assy RH Pin Pylon Attachment Pin Pylon Attachment Mount Assy of Beam Rear Pin Mount Beam to Pylon