



A U S T R A L I A

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DEFECT RECTIFICATIONS LIST

Aircraft Registration:	VH-XGG	Date:	4 th May, 2005
A/C Serial Number:	1156	A/C Hours:	7560.1
A/C Type:	GIV	A/C Landings:	2793
Job Number:	5436	Page:	1 of 5

Item No.	Description of Work
1.	Remove Nose Wheel assemblies for overhaul due to no history available. Install loan wheels so aircraft can be towed. Install original wheels after overhaul.
2.	#2 HF failed. Faults 20, 21, 31 on test couplers interchanged with no change. R/T's interchanged and defect transferred. #2 R/T removed and sent for repair. Refitted after repair and functional test carried out.
3.	Liaise with Gulfstream and provide information to have Gulfstream produce a drawing approving variations to ASC327B. Battery on BUS mod. Gulfstream drawing # SE43 3240178 received and incorporated into wiring diagrams manuals.
4.	Lanyard on tail compartment ladder pip pin broken. New lanyard manufactured and installed.
5.	Main entrance door lower fwd cable found broken. Detailed inspection of torque tube and door carried out. Replaced all 4 door cables following recommendation from Gulfstream.
6.	L Inboard flight spoiler has heavy corrosion. Spoiler assembly removed and set to Gulfstream for repair. Following repair spoiler installed and functional checks completed.
7.	R Inboard flight spoiler has heavy corrosion. Spoiler assembly removed and set to Gulfstream for repair. Spoiler found to be beyond economical repair. New spoiler assembly installed. ASC 456-1 kit required to be installed due to new (latest) part number spoiler.
8.	3 Check Valves leaking in 12 th stage bleed air supply to door seal system. Check valves replaced, new seals installed. Leak checked.
9.	Aileron primary cable FS452-RB103 Left side replaced with new assembly due to wear. System rigged and duplicate inspection completed.
10.	Rudder primary cable FS470-760 Left side replaced with new assembly due to wear. System rigged and duplicate inspection completed.
11.	Elevator primary cable FS470-760 centre Right replaced with new assembly due to wear. System rigged and duplicate inspection completed.
12.	Cabin windows and cockpit side windows badly crazed. Depth checks carried out and windows polished IAW GIV MM 56-01-00. Arrange Aeroclear to carry out work.
13.	Rear lower comm. Antenna has split on trailing edge. Repair carried out IAW standard practices to prevent water ingress and further splitting.
14.	Rudder primary cable FS470-760 Right aft replaced with new assembly due to wear. System rigged and duplicate inspection completed.
15.	Floor carpet and side trim of cockpit loose due to deteriorated Velcro adhesive. New Velcro installed as required. Old Velcro repaired where possible. Carpet installed.
16.	Main entrance door seal perished, raised section separating from seal in many places. New door seal installed. Old adhesive removed and channel cleaned. Functional check carried out.
17.	Clean interior.
18.	Various latches in galley, cabin and rear lavatory area inoperative. Push button latches lubed and realigned as needed. Position of latch connector of rear lavatory, rear mirror repositioned to facilitate correct latching.
19.	False back panel behind RH divan back rest required resecuring and new Velcro. Back panel secured. Velcro repair where needed. All seat belts straightened and packed neatly.

Item No.	Description of Work
20.	Pilot smoke goggles cracked. New goggles installed.
21.	Aileron primary cable FS452-RB103-200 aft Left side replaced with new assembly due to wear. System rigged and duplicate inspection completed.
22.	Aileron primary cable FS452-RB103-200 aft Right side replaced with new assembly due to wear. System rigged and duplicate inspection completed.
23.	Roof Lining in fwd lavatory falling loose. Velcro support found falling loose. Roof lining removed. Roof lining spacer glued to structure using 1099 Adhesive. Velcro restored to a serviceable order. Roof lining reinstalled.
24.	Refer Item 444 & 445 Spoiler installation. Preparation following paint prior to fitting. All bearing surfaces were cleaned of paint & masking prior to installation.
25.	L & R Thrust Reverser blister fairing fillers cracked and pieces missing. New fillers installed - riveted in place. Fairing refitted.
26.	Top up engine oils after work.
27.	Corrosion found on L & R Engine intermediate casing in Bypass Duct aft of fan OGV's, Outer case. Details of corrosion supplied to Rolls Royce. Email received from Rolls Royce allowing continued operation of engines until overhaul. (Fly-On-Acceptance) provided certain visual inspections are completed. These inspections were completed - satisfactory. Inspection must be carried out every 100 Hours or 1 Month. Add this requirement to CMP.
28.	Flight & Combined Hydraulic overheat switches failed check. Switches replaced.
29.	Engine Log Books do not have any entries from March 1999 to August 2003. Aircraft Records researched to reproduce history. Log book entries created and signed by Maintenance Controller.
30.	No Wheel History cards. Aircraft records researched to reproduce wheels history. New Wheel history cards raised.
31.	Bleed and service hydraulic reservoirs at completion of hydraulic checks.
32.	Speed brake handle light inoperative contacts on lamps cleaned and contract area built up with solder.
33.	Update CMP. Data entry.
34.	All Engine FAA & CASA AD's require entering in engine log books and certification.
35.	Enter ASC's in ASC section of aircraft log book and certify.
36.	FAA AD's missing in AD section of aircraft log book, added and certification carried out.
37.	Enter CB's in CB Section of aircraft log book and certify.
38.	Install exchange hydraulic reservoir filler when part arrives.
39.	Install tow bar clamp when part arrives.
40.	Carry out FAA AD2005-03-06. Rolls Royce Tay SB-TAY-73-2593 - LP Fuel tube replacement.
41.	#2 Transponder found to have poor sensitivity. Unit removed for repair and reinstalled following repair IAW CMP 345312.
42.	Replace LH Engine #1 Igniter.
43.	Replace RH Engine #2 Igniter.
44.	RH Flap - small dent repaired.

Item No.	Description of Work
45.	Baggage door frame lower edge reworked due damaged.
46.	Baggage door seal replaced due raised extrusion torn away from main seal in several places.
47.	Corrosion on dorsal fin removed/treated & painted with primer.
48.	Striker plate on fwd upper latch/fwd emergency exit inop. New striker plate fitted.
49.	Corrosion on rudder lower ballast weight support bracket removed/treated & painted with primer.
50.	Trim on LH side cockpit wall adrift, refitted.
51.	Trim on RH side cockpit wall adrift, refitted.
52.	Aft cabin temp sensor clogged with fluff/dirt & cleaned.
53.	Various cabin doors & hinges adjusted and lubricated for improved operation.
54.	Rub blocks in horizontal stabilizer requires shimming. Shims manufactured & installed gap measurement in limits.
55.	Elevator primary cable tension low, adjusted to correct tension.
56.	Rudder primary cable tension low, adjusted to correct tension.
57.	Wing/Fuse breather angles in wedge are rivets working - Rivets drilled out & replaced with #1 locks IAW Repair Drawing SEO5803002.
58.	Corrosion on cannon plugs under belly panel fwd of wing treated.
59.	RH Wing OB vortillon sealant damaged. Repaired.
60.	RH Aileron Actuator area has signs of hydraulic leak. Washed down, leak checked - satisfactory.
61.	Dorsal inlet duct - 6 rivets loose. Rivets replaced.
62.	LH IB & RH IB flight spoilers removed for repair (awaiting return).
63.	Fuel Tank flapper valves worn beyond limits 3 on RH & 3 on LH wing. Check valves replaced.
64.	LH windscreen wiper blade worn to limits, part torn off. Replaced.
65.	Elevator LH trim tab cracked skin. Trim tab removed/repared IAW Drawing SEO5516104 & reinstalled. Painted. Duplicate Inspection carried out.
66.	Elevator LH trim tab bolt damaged. Replaced.
67.	Lower beacon full of dirt. Removed, cleaned & refitted.
68.	RH Wing inspection light has condensation & rusted screws. Removed cleaned, screws replaced & resealed.
69.	LH Wing lower surface, lading edge to skin - sealant poor condition. Missing in some places. Sealant replaced.

Item No.	Description of Work
70.	Hydraulic service reservoir wet with fluid. Cleaned down, leak tested. Nil leaks.
71.	Tail cone wiring harness retaining brackets adrift. Area resecured.
72.	Main Entrance Door door seal inadequate pressure. Troubleshoot. Safety valve disassembled & found incorrectly assembled. Reassemble IAW AMM, reinstalled operation satisfactory.
73.	LH Wheel well wiring chaffed. Repair carried out, looms protected & tied back.
74.	Radio rack tail compartment annunciator light inop. Globes replaced.
75.	Radio rack fwd lav light on annunciator inop. Globe replaced.
76.	Potable water pump, drain waste and galley water heat. CB's found tripped. Reset CB's and all systems checked. Satisfactory.
77.	Fwd toilet service panel. Switches wires found disconnected. Reconnected, ops checked - satisfactory.
78.	RH Wing landing light cracked lens has been stop drilled & filled repair. Lens replaced.
79.	RH engine airflow control system out of limits. Airflow control regulator adjusted.
80.	LH & RH engine acceleration and deceleration out of limits. Acceleration/Deceleration adjusted to limits.
81.	Flight Ground and Approach idle out of limits. Ground/Approach idle adjusted to limits.
82.	LH engine flexible P clip missing rubber. P Clip replaced.
83.	#2 HF Failed - fault codes 08,20,21,23 (transmitter/receiver & controller)
84.	#3 Nav shows 'F' (Fail) at all times. Control head shows 'F' followed by remaining selected frequency. Research wiring diagrams. Information assembled and sent to Gables. Gables provided email clarifying no further action required.
85.	Unable to transmit from jump seat audio panels. Jacks panel removed & contacts cleaned. Refitted, ops test satisfactory.
86.	Numerous cockpit switchlight lamps need replacing. Relamped.
87.	R/H aft external emergency light - one lamp inop. Nil fault.
88.	L/H Horiz Stab O/B 2 static wicks out of tolerance. Static wicks replaced.
89.	FDR shows signs of severe Skydrol contamination. Refitted after workshop repair.
90.	Centre pedestal RH side carpet velcro falling off. Resecured.
91.	Black trim above CB panel R/H radio rack loose. Resecured.
92.	R/H radio rack Velcro falling off sound proofing. Resecured.
93.	Jumpseat trim loose. Resecured.
94.	RH Thrust Reverser Power Selector lever switch (S10) high resistance. Replaced and functional tested.

Item No.	Description of Work
95.	APU Inlet chimney flexible duct has large holes chafed through. Chimney removed, new duct rivetted in place and chimney reassembled.
96.	RH MLG structural post (leg) has corrosion on trunnion pin retainer bolt holes and upper strut bearing holes. Removed all wiring and components from leg and sent to Gulfstream for repair. Following repair structural post components reassembled and leg reinstalled.
97.	LH MLG timer valve striker arm shaft corroded. Replaced arm.
98.	LH MLG axle assembly corroded at hinge pin area. Axle replaced.
99.	LH MLG axle base sleeve corroded new base sleeve installed.
100.	LH MLG axle hinge pin and lock pin corroded. Parts replaced.
101.	LH MLG uplock roller and pin corroded. Parts replaced.
102.	L & R fwd & R aft MLG trunnion pins corroded. Parts replaced.
103.	L & R MLG trunnion pin safety bolts & hardware corroded. Parts replaced.
104.	L & R MLG strut lower attach pins and bushes corroded. Parts replaced.
105.	L & R MLG axle to strut pins and bushes corroded. Parts replaced.
106.	L & R MLG strut universal link attaching hardware corroded.
107.	L MLG strut cap and cap nut corroded. Parts replaced. Metering tube assembly transferred.
108.	L MLG axle assembly upper loom clamp cracked. Part replaced.
109.	#3 & #4 Brake assemblies close to wear limits and recommended replacement due to dragging by Jet Aviation Overhauled brake assemblies installed.
110.	NLG upper suitcase spring attach bolts, bad pitting. Parts replaced.
111.	Cover panel for wiring in fwd coat closet missing. New panel manufactured and installed.