

AIRCRAFT CORROSION				CARD No. CORR			
AREA: EXTERNAL and INTERNAL		TRADE: AIRFRAME		MANHOURS:		PREP:	
						TOTAL:	
An equalized corrosion inspection program to fulfill PSM 1-6-5, Part 3, Corrosion Manual requirements over a 5 year period. The equalized inspection should commence after the aircraft has previously undergone the initial 5 year corrosion inspection specified in Transport Canada Airworthiness Directive CF-94-12 when approval has been received from your Local Regulatory Authority. The periods of inspection are based on a typical annual operation of 1200 flight hours accumulating 6000 flight hours over a 5 year period. The five yearly EMMA Cards identify the inspections for that particular year.							
CORROSION INDEX							
Corrosion Task	Description	Airworthiness Directives and Service Bulletins	Inspection Access	Access Time and Reinstall (mins)	Inspect Time (mins)	Total Time (mins)	Inspection Year
28-00 FUEL GALLERY							
C28-00-00	Fuel structure, piping, booster pumps, fuel strainer, crossfeed valve, sump plates and electrical wiring and connections.		Remove panel F13, F14 and F17				1
32-10 MAINLEG							
C32-10-01	Main landing gear leg upper platen.		Remove				1
C32-10-02	Main landing gear leg upper platen links.	S/B 6/226, A/C 1 to 311	fairing, and panels F4, F5, F8, F9, F18 and F20				1
C32-10-03	Main landing gear leg lower platen.						1
C32-10-04	Main landing gear leg rebound block base plates.						1
C32-10-05	Main landing gear leg axle.		Jack aircraft remove wheel				1
32-15 FLOAT							
C32-15-01	Float installation - Front spreader bar, tie rod lugs, tie rod, vertical strut and hardware.		Beach aircraft In situ				1, 2, 3, 4 and 5

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32-15 FLOAT (CONT'D)							
C32-15-02	Float installation - Top front strut bracket, front strut and hardware.		When beached In situ				1, 2, 3, 4 and 5
C32-15-03	Float installation - Bottom front strut lug, front strut and hardware.		When beached In situ				1, 2, 3, 4 and 5
C32-15-04	Float installation - Rear spreader bar, support strut bracket, rear support struts, swivel end fittings, main leg pivot lug and hardware.		When beached In situ				1, 2, 3, 4 and 5
C32-15-05	Float installation - Main strut, drag strut, fuselage lug, wing strut attachment and hardware.		Remove fairing F4, F5, F8 and F9, remove strut fairings				1, 2, 3, 4 and 5
C32-15-06	Float installation - Main strut, drag strut and hardware at float.		Remove strut fairings panel				1, 2, 3, 4 and 5
C32-15-07	Float installation - Internal and external structure areas.		Remove panels and internal bulkhead panels				1, 2, 3, 4 and 5
32-20 NOSELEG							
C32-20-01	Noseleg upper and lower torque links.		In situ				1

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32-20	NOSELEG (CONT'D)						
C32-20-02	Noseleg steering actuator lever.		Open F1 or F2 door and remove avionic shields				1
C32-20-03	Noseleg cylinder lower bearing assembly.		During overhaul				1
C32-20-04	Noseleg fork where locknut bears against lower surface of fork.		During overhaul				1
52-00	DOOR						
C52-00-01	Airstair door outer skin, adjacent to hinge.		In situ				1
C52-00-02	Airstair door hinge.		Lower door				1
C52-00-03	Cabin door RH, upper and lower hinges.		In situ Open doors				1
C52-00-04	Nose baggage compartment door hinge.		In situ Open F1 nose cap or F2 door				1
53-11	FUSELAGE FORWARD						
C53-11-01	Noseleg lower attachment adapter fitting, Station 60.		In situ				5
C53-11-02	Noseleg upper mounting block, Station 60.		Open panels F3 and F10				5
C53-11-03	Pilot door hinge, upper and lower attachment plates, station 73.		In situ				5

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53-11 FUSELAGE FORWARD (CONT'D)							
C53-11-04	Co-pilot door hinge, upper and lower attachment plates, Station 73.		In situ				5
C53-11-05	Nose Attachment, exterior aluminum joint straps and fasteners common to the nose, station 44.		In situ				5
C53-11-06	Battery tray structure, interior surface of nose luggage compartment near battery tray, fasteners and hardware securing battery tray. (If installed)		Open nose luggage door				5
53-12 FUSELAGE CENTER							
C53-12-01	Lower frame assembly, main landing gear attach, station 219.		Remove panels F4, F5, F8 and F9				5
C53-12-02	Fuselage side frames at Stations 218 and 219.	T.C. CF-78-17 FAA 78-26-02	Remove cabin dado side panels				5
C53-12-03	Upper fwd spar beam, Station 200, and adapters, wing pickup, Station 200.		Remove ceiling panel and wing top center panel				5
C53-12-04	Frame assembly, lower, main landing gear attach, Station 239.		Remove panels F5 and F8				5
C53-12-05	Frames ("hockey stick") Station 239, wing attach.		Remove wing top center panel				5

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53-12 FUSELAGE CENTER (CONT'D)							
C53-12-06	Top skin sandwich panels, center fuselage, from station 111 to Station 190.		In situ Access upper fuselage surface				5
C53-12-07	Aft cabin doors, LH and RH, hinge attach plates, upper and lower.		In situ Open door				5
C53-12-08	Airstair door hinge plate.		In situ Lower door				5
C53-12-09	Cabin floor rails.		Remove or stow cabin seats and lift floor boards after de-riveting board side angles				5
C53-12-10	Cabin floor boards.		When above				5
C53-12-11	Fuselage structure, Station 111 to Station 376, shell interior and exterior skins, stringers and frames.		Remove cabin dado side panels, fuel liners and fuel cells				5
53-13 FUSELAGE REAR							
C53-13-01	Aft LH baggage door hinge attach plates.		In situ Open door F6				5
C53-13-02	Rear baggage compartment door hinge.		In situ Open door F6				5

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53-13 FUSELAGE REAR (CONT'D)							
C53-13-03	Rear baggage compartment door sill.		In situ Open door F6				5
C53-13-04	Rear fuselage lower bulkhead, Station 376.		Open door F6 and remove rear floor panel				5
C53-13-05	Battery bay, lower structure.		Open door F6 and remove fwd floor panel				5
53-14 FUSELAGE AFT							
C53-14-01	Aft fuselage to fin attach adapter plates. NOTE 1: If Pre Mod 1843 to 1846, remove horiz/vert stabilizer/ aft fuse top rib. NOTE 2: If Post Mod 1843 to 1846, inspect where accessible.	S/B 6/454	See Notes 1 and 2				4
C53-14-02	Rudder hinge tubular attach support structure.		Remove fairings T3, T4 and T14				4
54-00 NACELLE							
C54-00-01	Forward frame engine mount plates and engine mount adapters.		Lower engine cowling W7 or W21, remove cowling W29 or W33				4

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54-00	NACELLE (CONT'D)						
C54-00-02	Nacelle skin exhaust path and nacelle drag angles.		In situ				4
55-10	HORIZONTAL STABILIZER						
C55-10-01	Horizontal Stabilizer/Elevator adapter plate inboard.		In situ				4
C55-10-02	Horizontal Stabilizer/Elevator adapter plate outboard.		In situ				4
C55-10-03	Elevator center hinge arm.	T.C. CF-92-05 FAA 94-14-22	Remove fairings T2 and T15				4
C55-10-04	Tailplane front and rear mounting brackets.	T.C. CF-92-04 T.C. CF-85-10 FAA 83-26-05	Disassembly of Empennage units is recommended				4
55-20	ELEVATOR						
C55-20-01	Inboard attach adapter fitting.		In situ				4
C55-20-02	Outboard attach adapter fitting.		In situ				4
C55-20-03	Trim tab hinge.		In situ				4
C55-20-04	Flap/Elevator interconnect tab hinge.		In situ				4
C55-20-05	RH and LH inboard hinge arms.		In situ				4
C55-20-06	RH and LH outboard hinge arms.		In situ				4

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Corrosion Task	Description	Airworthiness Directives and Service Bulletins	Inspection Access	Access Time and Reinstall (mins)	Inspect Time (mins)	Total Time (mins)	Inspection Year
55-30 VERTICAL STABILIZER							
C55-30-01	Rudder mid hinge attach plate.		Remove Rudder				4
C55-30-02	Rudder top hinge attach plate.		Remove Rudder				4
C55-30-03	Fin front and rear spar adapter fittings. NOTE 1: If Pre Mod 1841 and 1842, remove horiz/vert stabilizer/ aft fuse top rib. NOTE 2: If Post Mod 1841 and 1842, inspect where accessible.		See Notes 1 and 2				4
55-40 RUDDER							
C55-40-01	Lower hinge arm.		Remove panels T3 and T4				4
C55-40-02	Mid hinge bracket.		In situ				4
C55-40-03	Upper hinge bracket.		In situ				4
C55-40-04	Upper trim tab hinge.		In situ				4
C55-40-05	Lower trim tab hinge.		In situ				4
57-10 WINGS							
C57-10-01 L/H and R/H	Top skins adjacent to nacelle, ribs 5 to 9.		In situ Access upper wing surface				1, 2, 3, 4 and 5

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57-10	WINGS (CONT'D)						
C57-10-02 L/H and R/H	Lower skins adjacent to nacelle, ribs 5 to 9.		In situ				1, 2, 3, 4 and 5
C57-10-03	Rear spar cap attachment adapters.	T.C. CF-73-03 FAA 95-18-11 amdt 39- 9358 S/B 6/295	Remove wing top center fairing				2 3
C57-10-04	Forward attachment adapters.	T.C. CF-85-12 FAA 85-16-10 FAA 94-04-01	Remove wing top center fairing				2 3
C57-10-05	'D' nose door assembly and hinge.		Remove panels W2 or W16				2 3
C57-10-06	Leading edge skin outboard of nacelle.		In situ				2 3
C57-10-07	Hinge arm Station 97.5.		In situ Remove shroud access panel				2 3
C57-10-08	Hinge arm adapters Stations 97.5, 172.5, 247.5 and 310.		In situ Remove shroud access panel				2 3
C57-10-09	Hinge arm Station 172.5.		In situ Remove shroud access panel				2 3

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57-10	WINGS (CONT'D)						
C57-10-10	Hinge arm Station 247.5.		In situ Remove shroud access panel				2 3
C57-10-11	Hinge arm Station 310.		In situ Remove shroud access panel				2 3
C57-10-12	Hinge arm Station 376.25.		In situ Remove wing tip fairing				2 3
C57-10-13	Main spar lower forward and aft cap angles.	T.C. CF-87-02 FAA 88-13-11 FAA 94-08-10	Access through wing lower skin inspection holes				2 3
C57-10-14	Main spar wing strut attachment lug.		Remove fairings W5 and W6 or W19 and W20				2 3
C57-10-15	Main spar splice plate Station 152.8.		Access through wing lower skin inspection holes				2 3

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57-10	WINGS (CONT'D)						
C57-10-16	Rivets attaching ribs to upper skin corrugation.		Access through wing lower skin inspection holes				2 3
C57-10-17	Pre Mod 6/1117 wing-spar, strut-lug, fastener holes.	1/100/200	High frequency eddy current. See PSM 1-6-7, PART 3				4
C57-10-18	Adapter assy – front spar-wing.	A.D. CF-2007-31	Access through wing lower skin inspection holes (Refer to SB 6/541)				2 3
57-40	WING STRUT						
C57-40-01	Wing strut beam.	T.C. CF-85-14 FAA 87-04-23	Remove fairings F5 or F8, W5 and W6 or W19 and W20				4
C57-40-02	Strut links.		Remove fairings W6 or W20				4

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57-51 INBOARD FOREFLAP							
C57-51-01	Inboard hinge arm Station 34.5.		Lower Flaps				2 3
C57-51-02	Mid hinge arm Station 97.5.		When lowered				2 3
C57-51-03	Outboard hinge arm Station 172.58.		When lowered				2 3
C57-51-04	Pushrod attach fitting Station 97.5.		When lowered				2 3
57-52 OUTBOARD FOREFLAP							
C57-52-01	Inboard hinge arm Station 173.5.		When lowered				2 3
C57-52-02	Inboard center hinge arm Station 247.11.		When lowered				2 3
C57-52-03	Outboard center hinge arm Station 310.		When lowered				2 3
C57-52-04	Outboard hinge arm Station 376.2.		When lowered				2 3
C57-52-05	Pushrod attach fitting Station 247.11.		When lowered				2 3
57-53 TRAILING FLAP							
C57-53-01	Inboard hinge end arm.		When lowered				2 3
C57-53-02	Center hinge arm.		When lowered				2 3
C57-53-03	Outboard hinge end arm.		When lowered				2 3
57-54 AILERON							
C57-54-01	Inboard hinge arm station 172.5.		When lowered				2 3
C57-54-02	Inboard center hinge arm Station 247.11.		When lowered				2 3
C57-54-03	Outboard center hinge arm Station 310.		When lowered				2 3
C57-54-04	Outboard hinge arm Station 376.2.		When lowered				2 3

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57-54	AILERON (CONT'D)						
C57-54-05	Balance weight location channel ('D' nose).	S/B 6/507	When lowered remove leading edge and weight				2 3
C57-54-06	Trim tab hinge arm.		When lowered				2 3
C57-54-07	Trim tab hinge.		When lowered				2 3
C57-54-08	Gear tab hinge.		When lowered				2 3

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