

**Attachment Two
Structural Inspection Schedule**

1900 MAINTENANCE PROGRAM



VOL XVI

<i>MODEL</i>	<i>TASK</i>	<i>PROCESS</i>	<i>INTERVAL</i>	<i>REMARKS</i>
ATA 51: STRUCTURES				
B	Empennage	HT	45,000 hours	Safelife
C	Entire fuselage (exterior)	IN	12,000 hours 3,000 hours	Initial Repeat
C	Pilot's and co-pilot's window seals (exterior)	IN	12,000 hours 3,000 hours	Initial Repeat
C	Airstair and cargo door hinges (exterior)	IN	16,000 hours 3,000 hours	Initial Repeat
ATA 52: DOORS AND HATCHES				
C	Escape hatch latch blocks - excessive wear or missing blocks	IN	12,000 hours 3,000 hours	Initial Repeat
C	Escape hatch - corner cracks	IN	18,000 hours 3,000 hours	Initial Repeat
C	Cargo door inner skin - cracks around the lower forward latch bracket	IN	15,000 hours 3,000 hours	Initial Repeat
C	Airstair door latch posts - excessive wear	IN	12,000 hours 3,000 hours	Initial Repeat
ATA 53: FUSELAGE				
C	Cockpit - FS142, WL87 and LBL27 - cracks in the floor support angles	IN	12,000 hours 3,000 hours	Initial Repeat
C	Cockpit - FS107 and FS110 - stringers 7L and 7R - cracks in frame at the lightening holes, and in the intercostal at the aft end of the doubler	IN	12,000 hours 3,000 hours	Initial Repeat
C	Cockpit - FS150 and FS177 - stringers 4 and 5 - loose, sheared, or missing rivets through the inner flange of the doorframes	IN	18,000 hours 3,000 hours	Initial Repeat
C	Cockpit - FS123 and WL130 - stringer 5R - broken frame under the crosstie	IN	18,000 hours 3,000 hours	Initial Repeat
C	Cockpit - FS175, WL88 and LBL28 - cracks in the lower aft corner of the airstair door frame	IN	18,000 hours 3,000 hours	Initial Repeat
D	Structural "A" CHECK	IN	12,000 hours or 16,000 cycles 3,000 hours or 4,000 cycles	Initial Repeat
D	Structural "B" CHECK	IN	15,000 hours or 20,000 cycles 3,000 hours 4,000 cycles	Initial Repeat

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ATA 53: FUSELAGE (Cont'd)				
D	Structural "C" CHECK	IN	18,000 hours or 24,000 cycles 3,000 hours or 4,000 cycles	Initial Repeat
C	Cockpit - FS163 - stringer 10R - cracks in bulkhead flange radius	IN	18,000 hours 3,000 hours	Initial Repeat
C	AFT fuselage - Stringers 5L-16-5R - 6 inches forward of the aft pressure bulkhead, cracks in the joggles and flange areas - (Effectivity: UC-1 thru UC-87)	IN	12,000 hours 3,000 hours	Initial Repeat
C	AFT fuselage - FS456 thru FS525 - cracks in the cargo doorframe at the lightening holes	IN	18,000 hours 3,000 hours	Initial Repeat
C	AFT fuselage - FS456 thru FS513 - cracks in "T" angles just above floor	IN	18,000 hours 3,000 hours	Initial Repeat
C	AFT fuselage - FS456 thru FS513 - stringer 3L - cracks in the outer flange of the bulkheads	IN	18,000 hours 3,000 hours	Initial Repeat
C	Sidewalls - FS177 thru FS451 - stringers 9L thru 11L and 9R thru 11R - cracks in the outer flanges and stringer cutouts, and sheared fasteners in the stringer clips	IN	21,000 hours 3,000 hours	Initial Repeat
C	Pressure bulkheads - FS84 - cracks in the forward pressure bulkhead flange radius and in the web, and sheared rivets in the stiffeners and in clips	IN	18,000 hours 6,000 hours	Initial Repeat
C	Aft pressure bulkhead - cracks in the dish assembly around the bulkhead frame screws, and loose fasteners	IN	18,000 hours 6,000 hours	Initial Repeat
C	Overhead - FS177 thru FS451 - stringers 4L thru 4R - cracks in the frame web and inner flange	IN	27,000 hours 6,000 hours	Initial Repeat
C	Under cabin floor - FS513 - cracks in the LH floor support angle (P/N 114-430133-13)	IN	18,000 hours 3,000 hours	Initial Repeat
C	Under cabin floor - frame flanges - especially FS198 thru FS423 - stringers 12L thru 12R - cracks emanating from the stringer cutouts and cracks in the clips	IN	18,000 hours 3,000 hours	Initial Repeat
C	Under cabin floor - FS198 thru FS438 - especially stringers 12L and 12R - web cracks emanating from the stringer cutouts	IN	18,000 hours 3,000 hours	Initial Repeat
C	Under cabin floor - Stringer clips - especially FS177 thru FS438 - stringers 13L thru 13R - sheared fasteners in the stringer clips	IN	18,000 hours 3,000 hours	Initial Repeat

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ATA 56: WINDOWS				
B	Windows	IN	4,500 hours	Inspect
D	Window attach frames	IN	2 years 1 year	Initial Repeat
C	Window attach frames	IN	2 years 4,500 hours or 1 year	Initial Repeat
B	Single ply cabin windows	DS	46,300 hours	Replace
B	Multi ply cabin windows	DS	46,300 hours	Replace
ATA 57: WINGS				
D	Structural "D" CHECK (wing rear spar)	IN	17,500 hours	Per Structural Inspection Manual
D	Structural "E" CHECK (wing rear spar)	IN	20,500 hours 3,000 hours	Initial Repeat
D	Structural "F" CHECK (wing main spar)	IN	24,000 hours	No repeat interval
D	Structural "G" CHECK (wing main spar)	IN	30,000 hours 6,000 hours	Initial Repeat
D	Internal wing structure	IN	4,800 hours or 3 years	Inspect
C	Main and rear wing spar	IN	30,000 hours 3,000 hours	Inspect by NDI
C	Wing reinforcement kit (P/N 114-4039-1 or 114-4041-1)	HT	20,000 hours	Install
C	Wing exterior - entire wing- indication of working rivets, damaged or worn areas, loose paint and skin cracks	IN	18,000 hours 3,000 hours	Initial Repeat
C	Main and rear spar lower cap - WS25 thru WS316 - cracks in the main spar and rear spar lower caps	IN	18,000 hours 600 hours	Initial Repeat
C	Wing spars - WS29 thru WS36 - rear spar lower cap - cracks in the forward and vertical flanges	IN	18,000 hours 600 hours *	Initial Repeat
C	Wing spars - BL29L and BL29R - rear spar web - web cracks	IN	18,000 hours 600 hours *	Initial Repeat
C	Wing spars - WS29 thru WS155 - main spar lower cap - cracks in the spar cap flanges	IN	30,000 hours 6,000 hours	Initial Repeat
C	Wing spars - BL28 - rear spar lower cap reinforcement (114-4039 or 114-4041) - cracks in the cap reinforcement	IN	24,000 hours 6,000 hours	Initial Repeat

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MODEL	TASK	PROCESS	INTERVAL	REMARKS
ATA 57: WINGS (Cont'd)				
C	Main spar shear tie - BL29 - shear tie - cracks in the shear tie radius and web	IN	30,000 hours 6,000 hours	Initial Repeat
C	Main spar and rear spar - WS36 thru WS135 - rear spar lower cap - cracks in the spar cap flanges	IN	30,000 hours 4,800 hours	Initial Repeat
C	Main spar and rear spar - WS29 thru WS135 - main spar lower cap - cracks in the spar cap flanges	IN	30,000 hours 6,000 hours	Initial Repeat
* Repeat inspections not required after reinforcement kits 114-4039-1 or 114-4041-1 are installed.				
ATA 61: PROPELLERS				
C	Propeller (Hartzell HC-B4MP-3A)	HT	3,000 hours or 5 years	Overhaul
D	Propeller (Hartzell HC-E4A-3D)	HT	4,000 hours or 6 years	Overhaul
C	Propeller governor	HT	9,000 hours	Overhaul
D	Propeller governor	HT	8,500 hours	Overhaul
B	Propeller overspeed governor	OC	D2, D4, D6	Repair or replace if it becomes inoperative
D	Propeller blades	IN	10,000 hours initial 5,000 hours repeat	Done at hub overhaul
ATA 71: POWERPLANT				
B	Engine vibration isolator mounts	IN	600 hours	Inspect
B	Engine truss (All with P/N 129-910047-1 or subsequent)	HT	8,000 hours	Perform magnetic particle inspection
ATA 72: ENGINE				
C	Engine PT6A-65B	HT	8,500 hours	Overhaul
C	Engine PT6A-65B rotor components	HT	Per P&WC SB 14002 as revised	Life limit
D	Engine PT6A-67D	HT	8,000 hours	Overhaul
D	Engine PT6A-67D rotor components	HT	Per P&WC SB 14002 as revised	Life limit
D	Engine PT6A-67D Hot section inspection	HT	4000 hours	Inspect