CHAPTER

05

TIME LIMITS AND MAINTENANCE SCHEDULE

REPORT 180-MAN-0200-01491

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LIST OF EFFECTIVE PAGES

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TIME LIMITS AND SCHEDULED MAINTENANCE

1. General

A. This manual includes Chapter 5 of the P180 Avanti II Maintenance Manual (ATA 100 Specification) - Report 180-MAN-0200-01105.

B. This Manual forms an entity and the operations described in one of the sections take into account the correct accomplishment of all the operations described in the other sections.

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LOG OF REVISIONS

Rev. N.	Rev. Pages	Description of Revision	Approval Document
A0	-	Chapter 5 Original Issue.	Approval under the Authority of DOA N° EASA.21J.220
A1	-	Updated Title Page Report 180-MAN-0200-01491.	
A2	LOEP LOR Pag.5	Updated List of Effective Page - Chapter 5 Addition Log of Revision Pages (CH5) . Addition P/N's Main Landing Gear (Dowty), 05-10-00.	
B0	ALL Pages	Chapter 5 First Reissue - Change position on all pages of Title Page Report 180-MAN-0200-01109.	Approval letter: UT/AQ-071/ 2007
	LOEP	Updated List of Effective Page.	
	LOR	Change position of Approval data from Title Page to Log of Revision Page.	
	TR LIST	Update Temporary Revision List.	
	05-00-00		
	Page 1	Update sentence.	
	Page 5	Update Engine References	
		Update Component Time Limits - description.	
	05-10-00		
	Page 1	Deleted Keith References.	
		21-20-00 - Update Limit - Door Pressure Regulating and Heating Systems Hoses.	
	Page 4	30-20-00 - Update Time Limit - Ice Vane Actuator.	
		32-10-00 - Update Main Landing Gear P/ N's and addition MLG Shock Absorber Dowty P/N's / Time Limits.	
	Page 5	32-10-00 - Update - MLG Actuators P/N's.	
		32-50-00 - Addition - Insulation Resistance inspection.	
		32-20-00 - Addition - NLG Actuator P/N.	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 6	36-10-00 - Update Limit - Cabin Door Seal Pressurization Line, Hose.	
	Page 7	72-00-00 - Update ATA Chapter Reference	
		73-20-00 - Update Engine Reference	
		73-30-00 - Update Engine Reference	
		79-20-00 - Update Engine Reference	
	05-20-00		
	Page 1	Update "General" description.	
	Page 2	Update "Column Interval" description .	
		"NOTE 2" Update Engine References	
	Page 4	25-29-00 - Addition - Cargo Net Check.	
	Page 7	21-30-00 - Update Inspection Interval - Pressurization Control System.	
		21-30-00 - Inserted Calibration Barometric Pressure Switch - Calibration.	
	Page 9	22-10-00 - Update Inspection Interval - Autopilot - Operational Test	
		22-10-00 - Autopilot System (RVSM operations) - Update ATA Chapter Reference.	
	Page 12	25-20-00 - Update Inspection Interval - Air Ambulance Stretcher - Phase B.	
		25-20-00 - Update Inspection Interval - Air Ambulance Stretcher - Phase A.	
	Page 15	27-00-00 - Update Inspection Interval - Trim Systems.	
		27-10-00 - Update Inspection Interval - Aileron Control System.	
	Page 16	27-20-00 - Update Inspection Interval - Rudder Control System.	
	Page 17	27-40-00 - Update Inspection Interval - Horizontal Stabilizer Trim System.	
	Page 20	29-00-00 - Update Inspection Interval - Hydraulic system.	
	Page 21	30-10-00 - Update Inspection Interval -Fwd Wing Anti-Ice Protection System.	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 23	31-10-00 - Update Inspection Interval - Integrated Avionics Processor System (IAPS).	
	Page 27	34-10-00 - Update Inspection Interval - Pitot Tubes, Static Ports and Lines.	
		34-11-00 - Update Page Block Number Reference - RVSM Air Data System (RVSM operations) - Ground test.	
	Page 28	34-61-00 - Update Inspection Interval - FMS Data Base - Upload	
	Page 29	35-00-00 - Addition - Smoke Goggle - Inspection	
	Page 30	46-20-00 - Update Inspection Interval - Electronic Charts Data Base - Upload	
		46-20-00 - Update Inspection Interval - Enhanced Map Data Base - Upload	
	Page 31	52-82-00 - Update Inspection Interval - Main Landing Gear Doors.	
		52-81-00 - Update Inspection Interval - Nose Landing Gear Doors.	
	Page 32	53-00-00 - Update Inspection Interval - Glareshield.	
	Page 34	55-10-00 - Update Inspection Interval - Horizontal Stabilizer Torque Box Assembly.	
	Page 37	57-20-00 - Update Inspection Interval - Fwd Wing Flap Hinge Fitting Supports & Lugs.	
	Page 38	57-50-00 - Update Inspection Interval - Wing Outboard Flap Tracks Forward Support.	
		57-60-00 - Update Inspection Interval - Ailerons.	
	Page 39	61-20-00 - Update Inspection Interval - Autofeather System.	
	Page 41	73-10-00 - Update Engine Reference - Engine Pneumatic System.	
	Page 42	76-10-00 - Updated Engine Controls, Levers, Cables and Power Lever Switches.	
	Page 46	Inserted ATA AMM references.	
	Page 47	Update Sentence.	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	05-50-00		
	Page 2	31-10-00 - Update Engine Reference.	
		79-20-00 - Update Engine Reference.	
	Page 3	71-00-00 - Update Engine Reference.	
	Page 4	LIGHTNING STRIKE - 72-00-00 - Update Engine and ATA Chapter Reference.	
		72-00-00 - ENGINE FIRE EXTINGUISHER PERCUSSION - 72-00-00 - Update Engine Reference.	
		EXTENDED OPERATION IN DUST AIR - 71-30-00 - Update Engine Reference.	
		EXTENDED OPERATION IN SALT AIR - 72-00-00 - Update Engine Reference.	
B1			Approval letter: DT/AW-007/09
	LOEP	Updated List of Effective Page.	
	LOR	Update Update Log of Revision List.	
	TR LIST	Update Temporary Revision List.	
	05-10-00		
	Page 2	Addition ELT Battery Time Limit.	
		Addition Life Vest and Raft Time Limit.	
		Addition Engine Fire Extinguisher Carteidge Part Number.	
	Page 3	Addition HTTa Vickers/Electromech Replacing Time. Remove Fuel Buster Pumps Lear Siegler reference.	
	Page 5	Steering Manifold requirements updating.	
		Update Steering Filter Part Number	
	Page 6	Addition ADASd and DTU Batteries Time Limits.	
	05-20-00		
	Page 11	Addition Ground Fault Interrupter Test and Cabin Barometric Pressure Switch Calibration.	
	Page 13	Addition ELT (Artex) Operational Test Interval updated.	
	Page 14	Addition ELT (Artex) Functional Test.	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
		Life Vest and Raft change Requirement.	
	Page 20	Fuel Quantity Indication System change Requirement.	
	Page 26	Remove Steering Actuator reference	
	Page 28	St. By Instrument ISI GH3100 - Air Data Section Operational test interval updated.	
	Page 29	Remove St. By Instrument reference. Addition FMC-3000 Battery Check	
	Page 45	Addition Engine Oil Level Visual Check	
	05-50-00		
	Page 2	Updated NLG and MLG Requirements.	
	Page 5	Addition Inspection for take off / landing on wet, snow or slush covered runways/ taxiways.	
B2			Approval letter: DT/AW-013/10
	LOEP	Updated List of Effective Page.	
	LOR	Update Update Log of Revision List.	
	TR LIST	Update Temporary Revision List.	
	05-00-00		
		Improve the "General Condition" mean	
	05-10-00		
	Page 1	Addition Keith P/N	
	Page 2	Addition Air Ambulance Stretcher Kit Lifeport Components - Time Limit	
	Page 2	Addition Underwater Acoustic Beacon - Replacing Battery - Time Limit	
	Page 3	Addition Horizontal Tail Trim Actuator HTTA Overhaul and Replacing - Time Limit	
	Page 4	Addition RCCB P/N Replacing - Time Limit	
	Page 6	Addition Cabin Door Sel Pressurization Line, Hose P/N	
	Page 7	Addition Electromech P/N	
	Page 8	Addition Electromech P/N	
	05-20-00		
	Page 2	Update NDTM Number Report	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 7	Change "Calibration" to "Test Bench"	
	Page 8	Addition Precooler Interval Inspection	
	Page 9	Addition Autopilot Systems Interval Inspections	
	Page 11	Change "Calibration" to "Test Bench"	
	Page 13	Delete Air Ambulance Stretcher Kit Lifeport Components and move it to 05-10-00	
	Page 14	Update sentence with addition of Extinguisher Weights	
	Page 14	Addition portable Fire Extinguisher Interval Inspection	
	Page 15	Addition reference to AMM Chapter	
	Page 22	Addition Windshield Heating Interval Inspection	
	Page 27	Update St. By. Instrument ISI GH3100 Interval Inspection	
	Page 29	Change "Calibration" to "Test Bench"	
	Page 31	Emergency Exit Door update sentence	
	Page 33	Addition Radome Diverter Strips Interval Inspection	
	Page 37	Addition Windshield Lateral Panel Interval Inspection	
	Page 49	Addition SPECIAL SCHEDULED INSPECTIONS FOR FTI INSTALLATION	
	05-50-00		
	Page 1	Addition Starter Generator Cable Repositioning	
	Page 2	Addition Abnormal Braking Condition	
	Page 5	Update Sentence and addition AMM Chapter reference	
B3			Approval letter:DT/AW-005/11
	05-INTRO	Intro Section	
	LOEP	Updated List of Effective Pages.	
	TOC	Updated Table of Contents Pages	
	LOR	Update Update Log of Revision List.	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	05-00-00		
	Page 6	Clarified "airplane first delivery".	
	Page 6	Removed reference to Daily inspection	
	05-10-00		
	Page 1	New "General" description and inserted NOTE 1 and 2.	
	Page 3	Was DK100 is DK120	
	Page 4	Added Battery P/N, New wording	
	Page 4	Change: Was Replace Battery is Remove and Replace	
	Page 5	Addition Precilec P/N and Time limits	
	Page 5	Addition Microtecnica P/N and Time limits	
	Page 6	Addition alternative P/N	
	Page 6	Was "Overhaul" is "Replace".	
	Page 7	Added P/N 201417004	
	Page 8	Removed required for on condition replacement	
	Page 9	Was 3000 FH, is 3600 FH	
	Page 9	Removed reference to SB-80/HZ-0001 Removed detailed requirement; added ref. to Hzl documents	
	Page 9	Removed ref. to Woodward docs; added ref. to P&WC docs	
	Page 9	Detailed maintenance requirement, removing reference to Woodward docs	
	Page 10	Added requirement for replacement	
	Page 10	Was 1/2-…. Is 1-2-….	
	Page 10	Moved from chapter 05-20-00	
	05-20-00		
	Page 2	New tolerances criteria, allowing more flexible maintenance scheduling. New tolerance on calendar inspections, more restrictive for inspections up to 6 month.	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 3	Updated referenced documentation	
	Page 3	Added	
		Page removed (Daily inspection is no longer required)	
	Page 6	Environmental Control Unit (Enviro System) Inspect for general condition and security of installation: Was A, B, C, D Is 2A, B, C, D	
	Page 7	Pressurization Control System - Operational Test: Was B, D Is B	
	Page 8	Duct temperature sensors - Inspect for general condition and security of installation: Was C, D Is B, D	
	Page 9	Autopilot, operational test: Was B, D, 1Y Is Removed	
	Page 9	Autopilot Computer Controller and Sensors - Inspect for general condition and security of installation: Was A, B, C, D Is 2A, B, C, D	
	Page 9	Autopilot System - Inspect servo actuators and cables for proper installation: Was A, B, C, D Is B, C, D	
	Page 10	Antennas - Inspect for general condition and security of installation: Changed AMM chapter in reference.	
	Page 10	Flight Compartment Communication, Control Units and Audio Equipment (including audio panels and cockpit speakers) - Inspect for general condition and security of installation: Was A, B, C, D Is B, C, D	
	Page 10	Transceivers - Inspect for general condition and security of installation: Was A, B, C, D Is B, C, D	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 10	CVR - Underwater Acoustic Beacon Dukane DK120 - Clean and perform battery check. Perform operational test - 6M: Added	
	Page 11	Cabin Barometric Pressure Switch (if Inverter SS50 is installed) - Cabin Barometric Pressure Switch - Test Bench - 2Y: Specified that this test is required only if Inverter P/N SS50 is installed	
	Page 11	Battery Installation - Temperature Indication Operational Test (MFD): Was A, B, C, D, 1Y Is 2A, B, C, D, 1Y	
	Page 11	Starter/Generator Air Cooling Ducts Inspect for general condition and presence of obstructions: Was B, D, 1Y Is A, B, C, D, 1Y	
	Page 11	Starter/Generator - Inspect brushes for wear: Was A, B, C, D Is 2A, B, C, D	
	Page 13	Cabin and flight compartment inspection - Inspect the passenger cabin and the flight compartment for objects which might foul the airplane control: Was "fly", is "flight"	
	Page 13	Life vest and raft (If installed) Refer to applicable CMM's: Removed	
	Page 15	Aileron trim tab - perform visual inspection and manual check for play: Was A, B, C, D Is 2A, B, C, D	
	Page 17	Horizontal Stabilizer friction test: Added (schedule C, D)	
	Page 18	FWD wing flap actuators and fittings - visual inspection for general condition: Was A, B, C, D Is B, D + 1Y	
	Page 18	FWD wing flap and support fittings - visual inspection for general condition: Was A, B, C, D Is B, D + 1Y	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 19	Fuel Collector & Auxiliary Tanks - Inspect for corrosion and evidence of damage D + 5Y: Joined two requirements	
	Page 19	Fuel Filter Drain Valves: Was ATA 28-11-00 Is ATA 28-15-00	
	Page 20	Hydraulic system - operational test: Was A, B, C, D Is 2A, B, C, D	
	Page 21	Fwd Wing Anti-Ice Protection System Operational test: Added at B Check	
	Page 21	Fwd Wing Anti-Ice Protection System Functional test: Was A, B, C, D Is C, D	
	Page 21	Fwd Wing Anti-Ice Protection System Relays & RCCB's Functional test C / D Checks: Unchanged	
	Page 21	Fwd wing leading edges Visual Inspection C / D Checks: Removed Operational test	
	Page 21	Main Wing Anti-Ice System Visual inspection and Operational test: Was A, B, C, D Is 2A, B, C, D	
	Page 21	Pitot Static Ports, AoA and TAT Transmitter Anti Ice Systems Operational Check: Was A, B, C, D Is 2A, B, C, D	
	Page 24	Main Landing Gear Strut(s) - Check Nitrogen Pressure: Was A, B, C, D Is A, B, C, D, 1Y	
	Page 25	Main gear wheel and nose gear wheel bearings: inspect for corrosion, evidence of damage. Clean and repack: Was A, B, C, D Moved to 05-50 (wheel/tire replacement)	
	Page 25	Tires - Inspect for wear, cuts, inflation, cleanliness and evidence of damage: Updated referenced procedure	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 27	Wiring - Inspect for proper routing: Was D Is C, D	
	Page 31	NLG/MLG doors - Inspect for general condition: Removed	
	Page 32	Fuselage Belly - Drain: Was 1Y Is A, B, C, D, 1M	
	Page 35	Horizontal Stabilizer Torque Box Assembly - Perform coin tapping test of upper skin to torque box: Was C, D Is C	
	Page 35	Vertical stabilizer - accurate visual inspection for general condition: Was A, B, C, D Is B, D	
	Page 36	Rudder assy and trim tab assy - Visual inspection: Added "manual check for play" Was A, B, C, D is B, D	
	Page 38	Fwd Wing Flap Hinge Fitting Supports & Lugs - Accurate visual inspection: Was B, D Is B	
	Page 38	Wing engine mount fittings - dye penetrant inspection, added within 4800 FH (removed from section 05-50)	
	Page 39	Aileron and trim tab assy - visual inspection of external surfaces for general condition: Removed	
	Page 40	Propellers - Inspect for general condition: Was A, B, C, D Is A, B, C, D, 1Y	
	Page 40	Propeller blade - blade cleaning: Added	
	Page 41	Engine inlet screen - when the airplane is .....: Was 2A is 2A, B, C, D	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 41	Anti-vibration isolator attachments threaded holes; engine mounts; rear titanium frame: Added inspection 4800 FH (removed from section 05-50).	
	Page 42	Engine pneumatic system -P3 filter clean or replace: Moved to 05-10	
	Page 45	Oil coolers: Revised wording and removed requirement for check for clearance (only for a/c not installing flex hose 80-337276-001)	
	05-50-00		
	Page 1	Operations on unpaved runways: Was ATA 05, is ATA 00	
	Page 2	Wheel / tire replacement. Inspect wheel bearings for corrosion, evidence of damage. Clean and repack: Added	
	Page 2	Engine Removal - Inspect Engine vibration isolators in accordance with CMM:Added	
	Page 2	Engine removal - dye penetrant checks: Was: Dye penetrant inspection / Endoscope inspection Is: Detailed visual inspection	
	Page 4	Lightning strike: Was ATA 05, is ATA 00	
	Page 4	Lightning strike - overspeed governor .- refer to chapter 05-10: Added	
	Page 4	Extended operation in dustair - 05-00-00: Removed	
	Page 5	Take off/landing on wet, snow or slush covered runways/taxiways: Removed	
C0	ALL Pages	Chapter 5 Second Reissue.	Approval letter: DT/AW-004/12
	05-10-00		

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 1	The listed TBO and maintenance recommendation may need to be modified to take into account field experience of each single operator, non standard operations (such as, but not limited to, extensive training operations or prolonged engine runs), or operations in aggressive environments (such as, but not limited to, sandy or dusty environments or in smog or salt-laden atmospheres). Requirements exceeding those listed in this section may need local authority approval. Added	
	Page 3	Freon Air Conditioning System Condenser / Compressor Electrical Motor: Keith - P/N JBS5004-1 / P/N JBS5006 Replace Brushes and Bearings - 600 FH (2) Larger tolerance admitted	
	Page 3	Starter / Generators: Overhaul - 1000 FH (2) Overhaul required at 1000 FH instead of 1050.	
	Page 3	Starter / Generators: brush holders and springs - inspect for general condition; brushes, inspect for wear. 1st check: 400 FH TSN / TSO Subsequent check - to be defined in accordance with AMM Chapter 24-30-00 Moved from section 05-20 (aircraft related) to section 05-10 (component related).	
	Page 5	Air ambulance stretcher kit - A phase inspection - 200 FH / 1Y (WOF) Was 150 FH, Is 200 FH	
	Page 6	Aileron Trim Actuator - Ratier Figeac P/N FE187-01 - Replace 15000FH Removed OH requirement; added life limit	
	Page 6	Rudder Trim Actuator - Ratier Figeac P/N FE182-00 - Replace 15000FH Removed OH requirement; added life limit	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 6	Flap control system drive unit - Microtecnica P/N C155720-2 - Overhaul 4500 FH Overhaul extended from 3000 to 4500 FH	
	Page 9	Steering filter - Facet enterprise - P/N 37913-05 - Replace filter element - 1000 FH (2) Was 1050 FH, Is 1000 FH	
	Page 10	Propeller - Overhaul - 6 years or 3600 FH (WOF) from installation (new or overhauled) NOTE (a) …..Start date for calendar limit is when the propeller is first installed and run on an engine. Calendar limit is not interrupted by subsequent removal and/or storage. Start date for calendar limit should not be confused with overhaul date. Detail on calendar limit start date are provided	
	Page 11	Fuel flow transmitters - replace bearings…. 5000 FH (2) Added tolerance up to 60 FH	
	Page 11	P3 filter - Clean or replace - 1000 FH (2) Overhaul required at 1000 FH instead of 1050.	
	Page 11	Engine P3 filter - refer to PWC Maintenance Manual for other maintenance Typographic	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	05-20-00		
	Page 1	When the mandatory or non-mandatory documentation, issued before 01 Feb. 2012 reports a reference to "A", "B", "C" or "D" check (i.e. AD's, PA's, Consignes de Navigabilité, Service Bulletins, Service Letters, Manuals etc.) the compliance shall be interpreted as, respectively, "150 FH", "600 FH", " 1500 FH" and "3000 FH". When the mandatory or non-mandatory documentation, issued after 01 Feb. 2012 reports a reference to "A", "B", "C" or "D" check (i.e. AD's, PA's, Consignes de Navigabilité, Service Bulletins, Service Letters, Manuals etc.) the compliance shall be interpreted as, respectively, "200 FH", "600 FH", " 1500 FH" and "3000 FH". Added clarification	
	Page 1	This inspection program consist of individual maintenance tasks, performed at 200, 600, 1500 and 3000 FH…. 200 FH - Every 200 FH ….. (other references to A inspection 200 FH) 200 FH checks is scheduled every 200 FH, instead of A inspection 150 FH	
	Page 3	NOTE 2: … engine minor checks shall be performed in conjunction with 200 FH nacelle light inspection and other aircraft inspections, as required Reference to 200 FH interval inspection, instead of 150 FH	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 3	The inspection program is based on the assumptions of average flight duration of 1 hour and 200 FH or more per year. When actual flight operations significantly differ from these assumptions, tailored inspection program may need to be defined. Tailored inspection programs may also need to be defined to take into account for non standard aircraft operation (such us, but not limited to, extensive training operation, low level flights etc) and when the aircraft is operated in aggressive environments (such us, but not limited to, sandy or dusty environments or in smog or salt-laden atmospheres). Refer also to Engine and propeller maintenance manual for relevant information. Added	
	Page 5	Aircraft 200 hour light inspection and servicing Added, 200 FH	
	Page 5	Engine and Nacelle 200 hour light inspection and servicing Added, 200 FH	
	Page 6	Environmental control unit (Enviro Systems) - Inspect for general condition and security of installation Was 2A, B, C, D Is B, C, D	
	Page 7	Manual rate controller, operational check Was B, D Is B	
	Page 7	Pressurization control ejector Was "inspect for security of installation" Is "Inspection"	
	Page 7	Pressurization control system - operational test Was B Is removed	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 7	Manual Rate Controller Was "inspect for security of installation…." Is "Inspection"	
	Page 9	Was ATA CH 21, Is ATA CH 22 ALL	
	Page 9	Autopilot Computer Controller and Sensors - inspect for general condition and security of installation Was 2A (300FH), B, C, D Is removed	
	Page 9	Autopilot system (A/C 1002 only) - check cable tension Was A (150FH), B, C, D Is 200FH, B, C, D	
	Page 9	Autopilot Disconnect Aural Warning - Check DCU channel Was A (150FH), B, C, D Is B, C, D	
	Page 11	AC generation - Operational test Was B, D Is removed	
	Page 11	Ground fault interrupter - test Was 1M Is 1Y	
	Page 11	Battery - Inspect for spewage Was 1M Is	
	Page 11	Battery - Capacity test and deep cycle - if required Was A (150FH), B, C, D Is B, C, D	
	Page 11	Battery installation - Inspect grounding connection …. Was A (150FH), B, C, D Is B, C, D	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 11	Battery installation - temperature indication operational test Was 2A (300FH), B, C, D Is B, C, D	
	Page 11	Starter generator air cooling ducts Was A (150FH), B, C, D Is B, C, D	
	Page 11	Starter/Generator - Inspect for general condition, including grounding connections - Brush holders and spring - inspect for general condition Was A (150FH), B, C, D Is B, C, D	
	Page 12	Passenger compartment seats and seat belts - inspect for general condition…. Was A (150FH), B, C, D Is B, C, D	
	Page 12	Flight compartment seats and seat belts - inspect for general condition…. Was A (150FH), B, C, D Is B, C, D	
	Page 13	Portable fire extinguisher (Aircraft 1105 and up) Was 1M Is B, C, D, 1Y	
	Page 14	Aileron trim tab - perform visual inspection and manual check for play Was 2A (300FH), B, C, D Is B, C, D	
	Page 14	Trim system - perform full strokes and check instrument indication Was A (150FH), B, C, D Is B, C, D	
	Page 14	Aileron control system - check for general condition ….. Was A (150FH), B, C, D Is B, C, D	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 15	Rudder assembly fitting attachments - visual inspection … Was A (150FH), B, C, D Is B, C, D	
	Page 15	Rudder control system - Check for general condition… Was A (150FH), B, C, D Is B, C, D	
	Page16	Elevator control system - check smooth travel with stabilizer at … Was A (150FH), B, C, D Is B, C, D	
	Page 16	Stall warning - operational test Was A (150FH), B, C, D Is B, C, D	
	Page 16	Inboard flap screwjack - lubricate Was 3A (450 FH) Is 400 FH	
	Page 18	Wing Tank/Collector Tank/Auxiliary Tank Area and Components - Inspect for General Condition and Check for leaks Was A (150FH), B, C, D Is B, C, D	
	Page 18	Wing Tank/Collector Tank connection - Inspect for General Condition and Check for leaks Was A (150FH), B, C, D Is B, C, D	
	Page 18	Fuel distribution system - operational test Was A (150FH), B, C, D Is B, C, D	
	Page 18	Nacelle fuel lines, hoses and accessories - Inspect for deterioration, evidence of damage, leakages and security of installation Was A (150FH), B, C, D Is B, C, D	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 19	Hydraulic system - operational test Was 2A (300 FH), B, C, D Is B, C, D	
	Page 19	Hydraulic pressurization lines - Inspect fittings… remove and clean relief valve and orifices Was A (150FH), B, C, D Is B, C, D	
	Page 19	Pressurization cap line - inspect for security of installation Was A (150FH), B, C, D Is B, C, D	
	Page 20	Main Wing Anti-Ice System Visual inspection and Operational test (Ref. to AMM Chapter 30-11-00 Page Block 200). Was 2A (300 FH), B, C, D Is B, C, D	
	Page 20	Inertial separator system - Visual inspection and operational test Was A (150FH), B, C, D Is B, C, D	
	Page 20	Pitot Static Ports, AoA and TAT Transmitter Anti Ice Systems Operational Check (Ref. to AMM Chapter 30-30-00 Page Block 200 Was 2A (300 FH), B, C, D Is B, C, D	
	Page 21	Ice detector - operational test Was A (150FH), B, C, D Is B, C, D	
	Page 23	Landing gear - Check the wiring connected to the microswitches for general condition and security of installation. Check electrical bonding for general condition and security of installation Was A (150FH), B, C, D Is B, C, D	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 23	Landing gear - lubricate Was A (150FH), B, C, D Is B, C, D, 1Y, 180 Ldgs	
	Page 23	Main / Nose Landing Gear Strut(s) - Check Nitrogen Pressure (Ref. to AMM Chapter 12-10-03 Page Block 300). Was A (150FH), B, C, D, 1Y Is B, C, D, 1Y	
	Page 23	Main/Nose Landing Gear - inspect for general condition and security of installation Was A (150FH), B, C, D Is B, C, D	
	Page 23	Main/Nose Landing Gear door mechanism - inspect for general condition and security of installation Was A (150FH), B, C, D Is B, C, D	
	Page 27	FMS Data Base - Upload Was 28 days Is removed	
	Page 27	FMC battery check Was 28 days Is removed	
	Page 28	Smoke google - Inspect Was 3 M Is 6 M	
	Page 29	Door seal pressurization system - drain Was A (150FH), B, C, D Is B, C, D	
	Page 29	Electronic charts data base - upload Was 14 days Is removed	
	Page 29	Enhanced map data base - upload Was 28 days Is removed	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 30	Door seal - Inspect for general condition and security of installation. Was A (150FH), B, C, D Is B, C, D	
	Page 30	Upper and lower cabin door - Visual inspection… Was A (150FH), B, C, D Is B, C, D	
	Page 30	Baggage Door, Seal, Handle, Keylock, and Hinges - Inspect for general condition and security of installation. Was A (150FH), B, C, D Is B, C, D	
	Page 31	Bottom fuselage skin, and structural members - Inspect beams and fuselage internal skin, under central and lateral floor for corrosion and damage Added "and lateral"; added "and damage"	
	Page 31	Fuselage Belly - Drain Was A (150FH), B, C, D, 1M Is B, C, D, 6M	
	Page 31	Fuselage External Skin, Baggage Compartment and MLG FWD Bay - Inspect for general condition and leakages Was A (150FH), B, C, D Is B, C, D	
	Page 31	Radome - Visual inspection. Check for static discharge pitting. Inspect electrical bonding straps for general condition. Was A (150FH), B, C, D Is B, C, D, 1Y	
	Page 31	Radome Diverter Strips (aircraft S/N 1002 only) - inspect for security of installation Was A (150FH), B, C, D Is B, C, D, 200 FH	
	Page 32	Ventral fins - inspect for general conditions and security of installation Was A (150FH), B, C, D Is B, C, D	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 33	Nacelle panels - Visual inspections Was A (150FH), B, C, D Is B, C, D	
	Page 34	Horizontal Stabilizer Assembly - Visual inspection of upper and lower skins and leading edges for nicks, dents check electrical bonding connection for general condition. Was A (150FH), B, C, D, 1Y Is B, C, D, 1Y	
	Page 34	Elevator - visual inspection for general condition Was A (150FH), B, C, D Is B, C, D, 1Y	
	Page 36	Windshields - Inspect for scratches, cracks and delaminations (Ref. to AMM Chapter 56-10-00 Page Block 200). Inspect the windshield weather seal for erosion or degradation (cracks). Was A (150FH), B, C, D, 1Y Is B, C, D, 1Y	
	Page 36	Windshields - lateral panels (aircraft S/N 1002 only) - Inspect for scratches, cracks, distorsions and clearines Was A (150FH), B, C, D, 1Y Is B, C, D, 1Y	
	Page 36	Cabin Windows - Inspect for scratches and cracks (Ref. to AMM Chapter 56-20-00 Page Block 200). Was A (150FH), B, C, D, 1Y Is B, C, D, 1Y	
	Page 36	Cabin windows - perform "water tightness check - interior removed" - ref AMM 56-20-00, page block 200 Added	
	Page 37	Wing - inspect for general condition Was A (150FH), B, C, D Is B, C, D	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 37	Fwd Wing assy - visual inspection for general condition Was A (150FH), B, C, D Is B, C, D	
	Page 38	Fwd Wing Flaps - Visual Inspection. Check grounding connections for general condition Was A (150FH), B, C, D Is B, C, D	
	Page 38	Wing Inboard & Outboard Flap Tracks - Visual inspection. Check the grounding tracks for wear. Was A (150FH), B, C, D Is B, C, D	
	Page 38	Wing Inboard Flaps - Visual inspection. Check the grounding springs for general condition and the bonding spring strips for wear and cuts. Was A (150FH), B, C, D Is B, C, D	
	Page 38	Wing Inboard Flaps - Inspect the ball bearing rollers for general condition and integrity Was A (150FH), B, C, D Is B, C, D	
	Page 38	Wing Outboard Flaps - Visual inspection. Check the grounding springs for general condition and wear Was A (150FH), B, C, D Is B, C, D	
	Page 40	Propellers - inspect for general conditions Was A (150FH), B, C, D, 1Y Is B, C, D, 150 FH, 1Y	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 40	Propellers - Lubricate Was A (150FH), B, C, D Is B, C, D, 150 FH, 1Y 6 month, if propeller annual operation is significantly less than 400 hours, or if the aircraft is operated or stored under adverse atmospheric conditions, e.g., high humidity, salt air etc.	
	Page 40	Inspect for general condition and security of installation of: "Autofeather System; "High & Low Torque Pressure Switches "Propeller Governor "Propeller Overspeed Governor "Propeller Speed Transmitters "Synchrophaser System Was A (150FH), B, C, D Is B, C, D	
	Page 40	Autofeather System Cam Switches - operational test Was A (150FH), B, C, D Is B, C, D	
	Page 41	Engine inlet screen - when the airplane is …… Was A (300 FH), B, C, D Is B, C, D	
	Page 41	Engine Mount Electrical Bonding Connections - Inspect for general condition and security of installation. Was A (150FH), B, C, D Is B, C, D	
	Page 41	Engine Mounts and Vibration Isolators - Inspect for general condition and security of installation (Ref. to AMM Chapter 71-20-00 Page Block 200). Was A (150FH), B, C, D, 1Y Is B, C, D, 1Y	
	Page 41	Firewalls - Inspect for general condition and security of installation Was A (150FH), B, C, D Is B, C, D	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 41	Electrical Harness and Equipment - Inspect wiring, associated equipment and accessories for general condition and proper installation (Ref. to AMM Chapter 71-50-00 Page Block 1). Was A (150FH), B, C, D Is B, C, D	
	Page 41	Engine Drains - Inspect for general condition (Ref. to AMM Chapter 71-70-00 Page Block 1 Step D.). Was A (150FH), B, C, D Is B, C, D	
	Page 42	Fuel Purge Systems - Check plumbing and visually inspect the accumulator for cracks and security of installation (Ref. to AMM Chapter 73-10-00 page Block 200). Was A (150FH), B, C, D Is B, C, D	
	Page 43	Engine Controls, levers, cables and power lever switches - Inspect for freedom of movement and proper operation (Ref. to AMM Chapter 76-00-00 Page Block 200). Was A (150FH), B, C, D, 1Y Is B, C, D, 1Y	
	Page 43	Engine Controls, levers and power lever switches - Inspect for general condition and proper installation (Ref. to AMM Chapter 76-00-00 Page Block 200). Was A (150FH), B, C, D, 1Y Is removed	
	Page 43	Power Control Cam Switches - Check for proper operation (Ref. to AMM Chapter 76-11-00 Page Block 205). Was A (150FH), B, C, D Is B, C, D	
	Page 44	Engine gas generator transmitters - inspect for general condition and security of installation Was A (150FH), B, C, D Is B, C, D	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 44	Torque pressure transducer - inspect for general condition and security of installation Was A (150FH), B, C, D Is B, C, D	
	Page 44	Exhaust stacks- inspect for general condition and security of installation Was A (150FH), B, C, D Is B, C, D	
	Page 45	Oil coolers - Check coolers, hoses and the fuel heater surfaces for general condition, proper installation and absence of damage and wear. For A/C installing flexible hose P/N 80-337276-001 refer also to Piaggio Aero Ind. SB-80-0175 latest revision. Was A (150FH), B, C, D Is B, C, D	
	Page 45	Engine Oil System - Inspect for general condition and security of installation the following items: #1 Oil Pressure Transducers, #2 Oil Pressure Switches, #3 Oil Temperature Bulbs . Was A (150FH), B, C, D Is B, C, D	
	Page 45	Magnetic Chip Detector Monitoring System - Chip detection monitoring circuitry check (Ref. to AMM Chapter 79-30-00 Page Block 200). Was A (150FH), B, C, D Is B, C, D, 1Y	
	Page 45	Engine Oil Level - Visual Check(Ref. to AMM Chapter 12-10-08 Page Block 300). Was A (150FH), B, C, D Is B, C, D	
	Page 46	Start switch - inspect for general condition and security of installation Was A (150FH), B, C, D Is B, C, D	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 49	FTI installation - checks required at A check Was A check Is 200 FH	
	05-50-00		
	Page 2	Nose Gear Wheel / Tire Replacement - Inspect wheel bearings for corrosion , evidence of damage. Clean and repack (Ref. to AMM Chapter 32-41-00 Page Block 200). Removed "Check the brake free play".	
	Page 2	Radome nosecone Replacement - Perform a radome nosecone leak check to check the avionics compartment proper sealing Was: water spray test Is: radome nosecone leak check	
C1			Approval letter: DT/AW-040/12
	05-10-00		
	Page 3	Addition of Outflow Valve Filter Element P/N Addition of Condenser/Compressor Electrical Motor P/N Addition of CVDR Underwater Acoustic Beacon -Dukane DK120 - Requirement Reference update	
	Page 6	Fuel Filter Element: Purolator - P/N 1743645-02 - Replace Was: 3000 FH or at light indication Is: 1500FH or at light indication	
	Page 7	Engine A/I Vane Actuator: Vickers/Electromech - P/N EM4032-2 - Replace Was: 5000FH Is: 30000FH Engine A/I Vane Actuator: Vickers/Electromech - P/N EM4032-2 - Overhaul at 5000FH	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 9	Addition of Steering Filter Element P/Ns	
	Page 11	Addition of NOTE (c)	
	05-20-00		
	Page 8	Operational test (Ref. to AMM Chapter 21-60-00 Page Block 200). Added reference	
	Page 9	Functional test (Ref. to AMM Chapter 22-00-00 Page Block 500). Reference update Was: AMM Chapter 22-00-00 Is: AMM Chapter 22-10-00	
	Page 10	Addition of CVDR Underwater Acoustic Beacon -Dukane DK120 - Requirement	
	Page 13	ELT (AF) C406-N Artex - Operational Test Was : 1M Is: 6M	
	Page 16	Addition of Aileron Trim System - Check for electrical insulation Addition of Rudder Trim System - Check for electrical insulation	
	Page 19	Nacelle Fuel Lines, Hoses and Accessories Inspect for deterioration, evidence of damage, leakages and security of installation Reference update Was: AMM Chapter 28-20-00 Is: AMM Chapter 28-00-00	
	Page 27	Navigation Apparatus - Inspect for general condition and security of installation ... Added TACS/ACAS and TWAS/EGPWS	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 31	Nose Landing Gear Doors - Perform inspection Reference update Was: AMM Chapter 52-12-00 Is: AMM Chapter 52-81-00 Main Landing Gear Doors - Perform inspection Reference update Was: AMM Chapter 52-11-00 Is: AMM Chapter 52-82-00	
	Page 32	Addition of Fuselage Belly - Internal belly – central bays – drain holes check and cleaning (Ref. to AMM Chapter 53-00-00 Page Block 200)	
	Page 35	Addition of Horizontal Stabilizer Assembly - Perform Electrical continuity check of grounding connections.	
	Page 39	Wing Outboard Flap Tracks Forward Support Added: For aircraft up to MSN 1110 see also SB-80-0210 and relevant AD	
	Page 41	Autofeather High & Low Torque Pressure Switches - Bench calibration or perform functional test (Ref. AMM 61-21-00 Page Bleck 500) Requirement and reference update Added Note (b)	
	Page 44	Engine Controls, levers, cables and power lever switches Requirement update	
	05-50-00		
	Page 2	Main Gear Wheel / Tire replacement Requirement Update Radome nose/cone replacement Reference update	

Rev. N.	Rev. Pages	Description of Revision	Approval Document
	Page 4	Inspect Main Landing Gear and perform operational test. Reference update Inspect Propellers. Reference update	
	Page 5	Inspect Propellers Reference update	

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TEMPORARY REVISION LIST

The following list identifies the Temporary Revisions affecting the Report 180-MAN-0200-01491 issue A0 and subsequent revisions/reissues.

NOTE: All succeding Temporary Revisions, to those listed, must be retained in your printed manual until directed otherwise by subsequent revision activity.

TR N.	Approval	Page	Reference	TR Status
001	UT/AQ-035/2007-CC	5	05-00-00	Inserted
002	UT/AQ-035/2007-CC	8	05-10-00	Inserted
003	UT/AQ-035/2007-CC	2	05-20-00	Inserted
003	UT/AQ-035/2007-CC	41	05-20-00	Inserted
004	UT/AQ-035/2007-CC	2	05-50-00	Inserted
004	UT/AQ-035/2007-CC	3	05-50-00	Inserted
004	UT/AQ-035/2007-CC	4	05-50-00	Inserted
015	UT/AQ-035/2007-CC		05-10-00	Inserted
017	DT/AW-011/08		05-20-00	Inserted
018	DT/AW-011/08		05-10-00	Inserted
019	DT/AW-023/08		05-20-00	Inserted
032	DT/AW-016/09-CC	3	05-10-00	Inserted
035	DT/AW-038/09-CC	6,7,8	05-10-00	Inserted
036	DT/AW-038/09-CC	9	05-20-00	Inserted
037	DT/AW-038/09-CC	15	05-20-00	Inserted
038	DT/AW-038/09-CC	23	05-20-00	Inserted
040	DT AW-055-09	28	05-20-00	Inserted
048	DT/AW-064/09-CC	4	05-10-00	Inserted
049	DT/AW-069/09-CC	1	05-10-00	Inserted
055	DT/AW-038/09-CC	34+	05-20-00	Inserted
061	DT/AW-033/10-CC	7	05-10-00	Inserted
062	DT/AW-033/10-CC	7	05-10-00	Inserted
063	DT/AW-033/10-CC	4	05-20-00	Inserted
064	DT/AW-033/10-CC	40	05-20-00	Inserted
071	DT/AW-076/10 R1-CC	5	05-10-00	Inserted
092	DT/AW-064/11	9	05-20-00	Inserted

TR N.	Approval	Page	Reference	TR Status
111	DT/AW-016/12	13	05-20-00	Inserted
115	DT/AW-030/12	7	05-10-00	Inserted
123	DT/AW-035/12	3	05-10-00	Inserted
125	DT/AW-035/12	10	05-20-00	Inserted
128		10	05-20-00	Incorporated, ATP/RLL

TIME LIMITS AND SCHEDULED MAINTENANCE

The **Time Limits and Maintenance Schedule - Chapter 5** are prepared according to requirements of Section 23.1529 of EASA certification spescification CS23.

1. General

A. Definition of Terms

(1) The term "Inspect for **General Condition**" means:
to make a visual survey of a component or system in order to locate any of the following conditions:

- external damage
- cracks, fractures, distortion
- corrosion
- contamination, deterioration, discoloration due to overheating
- loose, sheared or missing rivets and fasteners
- wear, chafing, fraying scoring
- insecurity or wear of attachment or attaching parts
- insecurity of attached parts (clips, pipes, bonding straps, etc.)
- leaks (oil, grease, fuel, hydraulic fluid, refrigerant, etc.
- fault or broken locking devices
- cuts, isolation damage, burning, of electrical wires .
- insecurity of installation and burning of electrical connectors.

(2) The term "**Functional Test**" means:
the procedure required to ascertain that a system or unit is functioning in all aspects in accordance with minimum acceptable system or unit design specifications. These tests may require ground support equipment and are more detailed than an operational test.

(3) The term "**Operational Test**" means:
the procedure required to ascertain whether an item of the equipment is operational. This test requires no material or equipment other than that of the airplane.

(4) The term "**Visual Inspection/Check**" means:
the procedure required to determine the condition of a system, an item of equipment or a structure in relation to the design standard.

(5) The term "**On Condition**" means:
the type of component maintenance which subjects the component to scheduled operations or continuous monitoring, if applicable, to ascertain its work condition, only being undergone if condition is found to be unsatisfactory. Criteria used to determine whether the component may be maintained according to its condition are the following:

- possibility of evaluating the condition degradation as a rule (without removal or disassembly), through visual inspections, measurement of

significant parameters, tests, etc.

– definition, in the maintenance document, of the limiting values of significant parameters or tolerances established in respect to quality performance, wear or increase in fault susceptibility, requiring additional work on the inspected component.

When this mode of maintenance is selected for a specific item of equipment, it is mandatory that the task required for checking the condition and the periodicity of the task is mentioned in this Maintenance Manual.

(6) The term "**Condition Monitoring**" means:
the concept that qualifies the type of component maintenance for which only the symptom of defect provides justification for remedial treatment.
This type of maintenance is applicable only to items whose failure has no effect on airworthiness or to components whose operation is directly under crew supervision.
Maintenance with condition monitoring requires the use of appropriate monitoring equipment in order to reveal components with unsatisfactory operational safety level. This implies consideration of the actual incidents occurring during utilization, in order to discover the origin, the consequences and the frequency of the fault.
Consideration of the incidents provides means of updating the maintenance policy.

NOTE: The "Condition Monitoring" components are not listed in this chapter, since condition monitoring is not performed by maintenance persons.

(7) The term "**Scheduled Maintenance**" means:
the maintenance performed at defined intervals to retain an item in a serviceable condition by systematic inspection, detection, replacement of wearout items, adjustment, calibration, cleaning, etc.

(8) The term "**Unscheduled Maintenance**" means:
the maintenance performed to restore an item to a satisfactory condition by providing correction of a known or suspected malfunction and/or defect.

(9) The term "**Special Maintenance**" means:
those maintenance operations, to be normally performed, not to be included in the "Inspection Program" for their particular time limits.

(10) The term "**Inspection/Check**" means:
the action required to determine the condition of a system, an item of equipment or a structure in relation to the design standard.

(11) The term "**Bench Check/Test**" means:
a functional check of an item in the shop to determine whether or not the item may be returned to service, or whether it requires adjustment, repair or overhaul.

(12) The term "**Airplane Operating Cycle**" means:
a completed take-off and landing sequence.
Touch and go landings are counted as Airplane Operating Cycles.

(13) The term "**Engine Operating Cycle**" means:
a complete engine thermal cycle including the application of take-off power.

(14) The term "**Whichever Occurs First**" **(WOF)** refers to:
a maintenance requirement to be performed at the expiring of either a flight hours limit or a calendar time limit whichever of the two prescribed limits occurs first.

B. Dictionary of More Common Defect Definitions

Abrasion	Wearing away of small amounts of material as a result of a friction between parts.
Blister	The raised portion of surface caused by separation of layers of material.
Buckling	Large-scale deformation from original shape of a part usually caused by pressure or impact of a foreign object, unusual structural stresses, excessive localized heating or any combination of these.
Burning	Loss of metal from excessive heat.
Burr	A sharp projection of rough edge.
Chafing	Wear due to two surfaces, rubbing together with limited motion.
Corrosion	A surface chemical action resulting in surface discoloration, a layer of oxide or, in advanced stages, the removal of surface metal.
Crack	Fissure or break in material.
Defect	Any confirmed abnormal condition of an item whether or not this could eventually result in a failure.
Dent	A smooth, round-bottomed depression.
Distortion	Change from the original shape.
Failure	The inability of an item to perform within previously specified limits.
Failure Rate	The performance figure calculated by dividing the number of failures by the total unit flying hours (airborne) or cycles accumulated during the same period. It is usually expressed as failures per 1000 unit hours or cycles. **NOTE:** "Failure rate" is the reciprocal of "Mean Time Between Failure".
Flaking	Loose particles of metal on a surface or evidence of removal of surface covering.
Frosting	An initial stage of scoring caused by irregularities or high points of metal welding together with minute particles of metal transferring to the mating surface, giving a frosted appearance.
Galling	Chafing caused by friction between two surfaces under high contact pressure.
Gouging	Removal of surface metal, typified by rough and deep depression.
Grooving	Smooth, rounded indentation caused by concentrated wear.
Inclusion	Foreign matter enclosed in metal.
Malfunction	The occurrence of a condition whereby the operation of an item is outside specified limits.
Metalisation	Coating by the spraying on of molten metal particles.
Nick	A sharp-bottomed depression with rough outer edges.

Peening	Flattening or displacing of metal by repeated blows. A surface may be peened by continuous impact of foreign objects or loose parts.
Pitting	A surface condition characterized by minute holes or cavities which occur on overstressed areas. The pits may occur in such profusion as to resemble spalling.
Scoring	A form of wear characterized by a scratched, scuffed or jagged appearance.
Scratches	Narrow, shallow marks or lines resulting from the movement of a metallic particle or sharp-pointed object across a surface.
Scuffing	A dull or moderate wear of a surface resulting from a slight amount of rubbing.
Seizure	A welding or binding of two adjacent surfaces, preventing further movement.
Spalling	A surface or subsurface defect characterized by chips of metal that spall or flake out of material, leaving cavities of varying sizes and depths.
Stress Failure	Metal failure due to compression forces, tension, shear, torsion or shock.
Tear	Parent metal torn by excessive vibration or other stresses.
Trouble	Any actual or suspected malfunction and /or defect.
Unbalance	A condition created in a rotating body (rotors, control surfaces and so on) by an unequal distribution of weight about its axis. Usually it results in vibration.
Wear	A condition resulting from a relatively slow removal of parent material. Frequently it is not visible to the unaided eye.
Wearout	The process of deterioration that results in an increase of the failure rate with increasing age.
Weaviness	See "Distortion".
Wrinkle	A raised fold of fibers in one or more plies. Its presence results in thicker sections. Usually on bag side of laminate.

C. 05-10-00 Component Time Limits

This section lists the Time Between Overhauls (TBO) of components that must be replaced or overhauled within specific time limits.
Also included in this section are the (non-mandatory) recommendations for improving component life.
Component / accessory calendar times initially begin from airplane original certification date recorded in airplane logbook, then from last overhaul (unless otherwise stated in airplane documents).
Never the less some components / accessories could make exception to this rule. In these cases, the specific calendar requirement is mentioned in the description of the limit.

D. 05-20-00 Inspection Program

This section consists of individual inspections that are to be performed at 200, 600, 1500 and 3000 hour intervals, and of Special Scheduled Inspections.

E. 05-50-00 Unscheduled Maintenance

This section includes those inspections to be performed only when particular conditions apply and after any consequence due to unscheduled flight conditions such as hard or overweight landing, severe turbulence and/or maneuvers, rejected take-off, bird strike, turbulent air, lightning strike, slush ingestion, etc.

CAUTION: APPLY "STORAGE PROCEDURES", TO PROTECT THE AIRPLANE AND ITS ENGINES WHEN IT IS NOT IN USE (REFER, RESPECTIVELY, TO AMM CHAP. 10-12-00, PAGE BLOCK 201 AND TO P&WC EMM, CHAP. 72-00-00). REFER TO "SPECIAL SCHEDULED INSPECTIONS" (INTERVAL COLUMN) SECTION 5-20-00 TO COMPLY WITH CALENDAR CHECKS IF REQUIRED.

CAUTION: APPLY "RETURN TO SERVICE PROCEDURES", TO PREPARE THE AIRPLANE AND ITS ENGINES TO SERVICE AFTER A STORAGE PERIOD (REFER, RESPECTIVELY, TO AMM CHAP. 10-30-00 PAGE BLOCK 201 AND TO P&WC EMM, CHAP. 72-00-00). REFER TO "SPECIAL SCHEDULED INSPECTIONS" SECTION (INTERVAL COLUMN) SECTION 5-20-00 TO COMPLY WITH CALENDAR CHECKS IF REQUIRED.

COMPONENT TIME LIMITS

1. GENERAL

This section lists the Time Between Overhauls (TBO) of components that must be replaced or overhauled within specific time limits.

Also included in this section are the (non-mandatory) recommendations for improving component life.

Component / accessory calendar times initially begin from airplane original certification date recorded in airplane logbook, then from last overhaul (unless otherwise stated in airplane documents).

Never the less some components / accessories could make exception to this rule. In these cases, the specific calendar requirement is mentioned in the description of the limit

NOTE 1: The overhaul / replace limit may be exceeded up to 15 FH to make overhaul / replacement coincide with an airplane inspection, when "(1)" is written in the "Limit" column.

NOTE 2: The overhaul / replace limit may be exceeded up to 60 FH to make overhaul / replacement coincide with an airplane inspection, when "(2)" is written in the "Limit" column.

The listed TBO and maintenance recommendation may need to be modified to take into account field experience of each single operator, non standard operations (such as, but not limited to, extensive training operations or prolonged engine runs), or operations in aggressive environments (such as, but not limited to, sandy or dusty environments or in smog or salt-laden atmospheres). Requirements exceeding those listed in this section may need local authority approval.

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Air Conditioning (Chapter 21)			
Ref.	Item	Requirement	Limit
21-20-00	Cabin Blower: (including brushes) Electromech - P/N EM675-1	Overhaul	2000 FH
21-20-00	Door Pressure Regulating and Heating Systems Hoses: P/N NP622002-8-200	Replace	10 Years from assy date
21-30-00	Pressurization System Primary Outflow Valve Filter Element: Allied Signal P/N 147240-1 or P/N 1115-1	Replace	600 FH (2)
21-40-00	Heating System Ground Blower: Enviro - P/N 1250435 - Brushes	Replace	3000 FH (2)
21-40-00	Heating System Ground Blower: Enviro - P/N 1250435	Overhaul	9000 FH (2)
21-51-00	Freon Air Conditioning System Condenser/Compressor Electrical Motor P/N ES61100-1, installed on:		
	Keith - P/N JBS5004-1 P/N JBS5006-1	Replace Brushes and Bearings	600 FH (2)

Communications (Chapter 23)			
Ref.	Item	Requirement	Limit
23-70-00	CVR (if installed) Underwater Acoustic Beacon - Dukane DK120	Replace Battery	Refer to replacement date label on the UAB
23-71-00	CVDR (if installed) Underwater Acoustic Beacon - Dukane DK120	Replace Battery	Refer to replacement date label on the UAB

Electrical Power (Chapter 24)			
Ref.	Item	Requirement	Limit
24-30-00	Starter/Generators: Lear Siegler - P/N 23080-019	Overhaul	1000 FH (2)
		Brushes, Brushes holders and Springs - Inspect for general conditions (ref. to 24-30-00 Page Block 200) Brushes - Inspect for wear (ref. to 24-30-00)	400 FH TSN/ TSO (1st check) subsequent check ref to 12-22-00

Equipment and Furnishing (Chapter 25)			
Ref.	Item	Requirement	Limit
25-20-00	Air Ambulance Stretcher Kit Lifeport (if installed), composed by: 6' PLUS Patient Handling System (P/N 366-4300-CF2-02); Stretcher (P/N 100-4065-CF2-02), 2' PLUS cabinet unit (P/N 100-4568-CF2-002), Load ramp (P/N 100-4472); Wire boundle assy (P/N WI2-044), Handles (P/N 0812-0100-02-01) Mounting plate (P/N 80-929031-801) Plungers (P/N CL-5-HRP)	A phase inspection (ref. Lifeport Doc.No.EGR-109) B phase inspection (ref. Lifeport Doc.No.EGR-109) C phase inspection (ref. Lifeport Doc.No.EGR-109)	200 FH or 1 Year (*) 600 FH or 1 Year (*) 5 Years
25-20-00	Oxygen regulator Medidave 300	Check of pressure and flow Overhaul Replace	1 Year 5 Years 10 Years
25-60-00	ELT (AF) Type 503- Techtest - P/N 503-1 Battery: P/N A0673-1	Replace Battery	5 Years (of unused life and with no more than one test per day) (from battery manufactory date)
25-60-00	ELT (AF) Type 503-"g" Switch: Techtest - P/N 503-7 Battery: P/N A0701	Replace Battery	2,5 Years (from battery manufactory date)
25-60-00	Underwater Acoustic Beacon: Dukane DK100	Remove and return to factory for battey change.	Refer to replacement date label on the UAB
25-60-00	ELT (AF) C406-N Transmitter Battery Pack Artex P/N 452-0133 Part of P/N 453-5060	Replace Battery Pack	5 Years of unused life or 7 flashes on the "ON" led following the ELT operational test

Equipment and Furnishing (Chapter 25)			
Ref.	Item	Requirement	Limit
25-60-00	Life vest and raft (If installed)	Refer to applicable CMM's	
	(*) Whichever occur first.		

Fire Protection (Chapter 26)			
Ref.	Item	Requirement	Limit
26-20-00	Engine Fire Extinguisher Cartridges P/N 13083-5	Replace	S (*)
		(*) If t = Storage Time and S = Service Time, for: t < 2 years ➔S = 4 years; t ≥ 2 years ➔ S = (6 - t) Years Max.	

Flight Controls (Chapter 27)			
Ref.	Item	Requirement	Limit
27-10-00	Aileron Trim Actuator:		
	Ratier Figeac - P/N FE187-001	Replace	15000 FH (2)
	Precilec - P/N 702543-01	Overhaul	6000 FH or 8 years
	Precilec - P/N 702543-01	Replace	30000 FH
27-20-00	Rudder Trim Actuator:		
	Ratier Figeac - P/N FE182-000	Replace	15000 FH (2)
	Precilec - P/N 702542-01	Overhaul	6000 FH or 8 years
	Precilec - P/N 702542-01	Replace	30000 FH
27-40-00	Horizontal Tail Trim Actuator (HTTA): Vickers/Electromech - P/N EM4011-( )	Overhaul	2000 FH
27-40-00	Horizontal Tail Trim Actuator (HTTA): Vickers/Electromech - P/N EM4011-( )	Replace	30000 FH
27-40-00	Horizontal Tail Trim Actuator (HTTA): Precilec - P/N 702201 00	Overhaul	2000 FH
27-40-00	Horizontal Tail Trim Actuator (HTTA): Precilec - P/N 702201 00	Replace	30000 FH
27-50-00	Flap Control System Drive Unit: Microtecnica P/N C155720-2	Overhaul	4500 FH (2)

Flight Controls (Chapter 27)			
Ref.	Item	Requirement	Limit
27-50-00	FWD Wing Flap Actuators:		
	Microtecnica - P/N C132275-5 (LH) and C132275-6 (RH)	Replacement of Motor Brushes	6000 FH (2)
		Replacement of Microswitches	15000 FH (2)
	Microtecnica - P/N C132275-31 (LH) and C132275-41 (RH)	Overhaul	3000 FH

Fuel (Chapter 28)			
Ref.	Item	Requirement	Limit
28-14-00	Collector Tank Interconnecting Valve: Secondo Mona - P/N SM2646-1	Replace	10000 FH
28-20-00	Fuel Booster Pumps:		
	Parker - P/N 1C12-43	Overhaul	3000 FH (2)
28-20-00	Fuel Filter Element: Purolator - P/N 1743645-02	Replace	1500 FH or at light indication (2)

Hydraulic Power (Chapter 29)			
Ref.	Item	Requirement	Limit
29-10-00	RCCB N° K31:		
	P/N SM600BA100A1 P/N 4930-02-100A	Replace (a) Replace	3000 FH (2) 3000 FH (2)
29-10-00	Hydraulic Filter Element: Vickers - P/N M060024	Replace	At light indication
29-10-00	Hydraulic Power Package Electric Motor: Vickers - P/N 520811 or P/N 29-1-3	Overhaul	1500 Ldgs
29-10-00	Hydraulic Power Package Assy: Vickers - P/N 520814	Overhaul	6000 Ldgs
NOTE:	(a) Replace with P/N SM600BA100A1 [S/N ≥ 80000] (ref. to Service Bulletin N. 80-0166 latest revision).		

Ice and Rain Protection (Chapter 30)			
Ref.	Item	Requirement	Limit
30-10-00	Wing A/I Protection Valves: Barber Colman - P/N BYLB51824	Overhaul	3000 FH (2)
30-20-00	Engine A/I Vane Actuator: Vickers/Electromech - P/N EM4032-2	Overhaul	5000 FH (2)
		Replace	30000 FH
30-20-00	Engine A/I Vane Actuator P/N 702544-00	Replace	30000 FH

Landing Gear (Chapter 32)			
Ref.	Item	Requirement	Limit
32-10-00	Main Landing Gear: Dowty - 201416003 / 004	Overhaul (Refer to Dowty CMM)	6000 Ldgs or 10 Years WOF
	Which includes:		
	-MLG Shock Absorber Dowty P/N 201417002	Overhaul (Refer to Dowty CMM)	6000 Ldgs or 10 Years WOF
	Main Landing Gear: Dowty - 201416005 / 006	Overhaul (Refer to Dowty CMM)	6000 Ldgs or 10 Years WOF
	Which includes:		
	-MLG Shock Absorber Dowty P/N 201417003 or 201417004	Overhaul (Refer to Dowty CMM)	6000 Ldgs or 10 Years WOF
32-10-00	MLG Actuators:		
	Dowty - P/N 114346003 (LH) and 114346004 (RH) Dowty - P/N 114346001 (LH) and 114346002 (RH).	Overhaul (Refer to Dowty CMM)	6000 Ldgs or 10 Years WOF
32-10-00	MLG Drag Braces: Dowty - P/N 201418003 (LH) and 201418004 (RH)	Overhaul (Refer to Dowty CMM)	6000 Ldgs or 10 Years WOF
32-20-00	Nose Landing Gear: Dowty - P/N 201033002	Overhaul (Refer to Dowty CMM)	6000 Ldgs or 10 Years WOF
	which includes:		
32-50-00	– Steering Manifold: Dowty - P/N 114180003	Overhaul (Refer to Dowty CMM)	6000 Ldgs or 10 Years WOF
32-50-00	– Steering Actuator:		
	Dowty - P/N 114068003	Overhaul (Refer to Dowty CMM)	3000 Ldgs or 10 Years WOF
		Insulation Resistance inspection (Refer 32-50-00 Page Block 500)	600 FH (2)
32-20-00	NLG Actuator:		
	Dowty - P/N 114067004 P/N 114067003	Overhaul (Refer to Dowty CMM)	6000 Ldgs or 10 Years WOF
32-20-00	NLG Drag Brace: Dowty - P/N 201050002	Overhaul (Refer to Dowty CMM)	6000 Ldgs or 10 Years WOF
32-40-00	NLG Wheels: BF Goodrich - P/N 3-1460	Overhaul	1500 Ldgs

Landing Gear (Chapter 32)			
Ref.	Item	Requirement	Limit
32-40-00	MLG Wheels: BF Goodrich - P/N 3-1461-1	Overhaul	1500 Ldgs
32-40-00	Wheel Brakes: BF Goodrich - P/N 2-1504-4	Overhaul	When the wear pin indicates that the brake is 100% worn
32-50-00	Steering Filter: Facet Enterprise - P/N 038180-01 Filter Element: P/N 037913-05 or P/N 037913-05-45 or P/N 1730791-04	Replace filter element	1000 FH (2)

Oxygen (Chapter 35)			
Ref.	Item	Requirement	Limit
35-20-00	Oxygen System Filler Valve: Pacific Precision - P/N P21010	Functional Test (ref. to AMM Chap. 35-00-00)	5 Years from installation or from last test
	Note: The Valve Overhaul, when selected, does not require to perform the Functional Test every 5 Years (and vice-versa)	or Overhaul	10 Years from installation or from last Overhaul
35-20-00	Oxygen System Three Position Valve: Pacific Precision - P/N P21021	Overhaul	5 Years from Assy Date or from last Overhaul
35-20-00	Oxygen System Crew Masks: Eros - P/N MC10-15-13	Overhaul	72 Months from Assy Date or from last Overhaul
35-30-00	Protective Breathing Equipment - Emergency Escape Hood: Eros - P/N 15-40F (if installed)	Replace	10 Years from Assy Date

Pneumatic (Chapter 36)			
Ref.	Item	Requirement	Limit
36-10-00	Cabin Door Seal Pressurization Line, Hose: P/N 80-197056-027 or Hose P/N 80-197605- 001 and P/N 80-197605-003	Replace	10 Years from assy date

Central Maintenance System (Chapter 45)			
Ref.	Item	Requirement	Limit
45-70-00	ADASd Processor: Altair P/N DAAS-A-010-1	Replace Battery	10 Years
45-70-00	DTU Processor: Altair P/N DTU-A-012-1	Replace Battery	10 Years

Propellers (Chapter 61)			
Ref.	Item	Requirement	Limit
61-10-00	Propellers: Hartzell - P/N HC-E5N-3 (A) (L)/ (H,L) E8218	Overhaul (ref. to Hartzell Applicable Documents	6 years or 3600 h WOF from installation or last overhaul (a) (c)
61-10-00	Propellers: Hartzell - P/N HC-E5N-3 (A) (L)/ (H,L) E8218	Blade inspection and corrosion removal if necessary	Ref. to Hartzell Service Bulletin HC-SB-61-181A, latest revision
61-20-00	Propeller Governor: Woodward - P/N 8210-411	Overhaul	Ref. to P&WC SB 14603 latest revision
61-20-00	Over-speed Governor: Woodward - P/N 210962	Overhaul	6500 FH(b)
61-40-00	Propeller RPM Transducer: Farem - P/N 15TG02TYP1542 or Electromech P/N EM8028 - 1 ( )	Overhaul	3000 FH (2)

NOTE: (a) The Overhaul calendar limit for propellers manifactured or overhauled since October 1991 is 6 years, while for propellers manifactured or overhauled prior to October 1991 remains 5 years (ref. to Hartzell Service Letter HC-SL-61-61Y last revision). Start date for calendar limit is when the propeller is first installed and run on an engine. Calendar limit is not interrupted by subsequent removal and/or storage. Start date for calendar limits should not be confused with overhaul date.

NOTE: (b) This TBO is based on the assumption of continuous opearation minimum of 10 hours per month. The recommended calendar time limit is 6 years for units not in continuous service with a minimum of 120 hours per year. For units in continuous service with a minimum of 120 hours per year, the unit can be operated to the recommended TBO in hours provided there has been no 6 month period when the unit was not operated for a minimum of 10 hours.
Overhaul is required at any time the unit is subjected to: sudden stoppage, contaminated oil or LIGHTNING STRIKE.

NOTE: (c) Propellers are often assembled using components with differing individual TSN. Because of this, maintaining separate TSN and TSO histories for a replacement hub, blade or life-limited component is required in order to establish propeller assembly TSN, and should be tracked in the propeller logbook

Engine (Chapter 71)			
Ref.	Item	Requirement	Limit
71-00-00	Enginevibration isolators Barry Controls Aerospace: P/N 95007-17 P/N 95007-18	Replace Ref. CMM 71-20-03 Rev.3 Page Block 500	Within 4800 FH (Suggested at engine overhaul

Engine (Chapter 72)			
Ref.	Item	Requirement	Limit
72-00-00	Engine	Overhaul	Ref. to P&WC SB 14603 latest issue
72-00-00	Engine	Hot Section Inspection (as prescribed in the P&WC Maintenance Manual)	Ref. to P&WC SB 14603 latest issue

Engine Fuel & Control (Chapter 73)			
Ref.	Item	Requirement	Limit
73-10-00	Fuel Flow Transmitters: P/N 1-2-1-81-302	Replace bearings and shaft Calibration	5000 FH (2)
73-10-00	Engine P3 Filter	Clean or Replace (Refer to P&WC EMM for cleaning)	1000 hours of engine operation (2)
73-10-00	Engine P3 Filter	(Refer to P&WC Maintenance Manual for other maintenance)	
73-10-00	Engine Fuel Pump Filters	(Refer to P&WC Maintenance Manual)	

Engine Indicating (Chapter 77)			
Ref.	Item	Requirement	Limit
77-10-00	Engine RPM Transducer: Farem - P/N 15TG02TYP1542 or Electromech P/N EM8028 - 1 ( )	Overhaul	3000 FH (2)

Oil (Chapter 79)			
Ref.	Item	Requirement	Limit
79-20-00	Engine Oil Filter	(Refer to P&WC Maintenance Manual)	

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INSPECTION PROGRAM

1. Foreword

When the mandatory or non-mandatory documentation issued before 01/Feb. 2012 reports a reference to “A”, “B”, “C” or “D” check (i.e. AD’s, PA’s, Consignes de Navigabilité, Service Bulletins, Service Letters, Manuals etc.) the compliance shall be interpreted as, respectively, “150 FH”, “600 FH”, “ 1500 FH” and “3000 FH”.

When the mandatory or non mandatory documentation, issued after 01/Feb. 2012 reports a reference to "A", "B", "C" or "D" check ((i.e. AD’s, PA’s, Consignes de Navigabilité, Service Bulletins, Service Letters, Manuals etc.) the compliance shall be interpreted as, respectively, “200 FH”, “600 FH”, “ 1500 FH” and “3000 FH”.

2. General

A. This inspection program consists of individual maintenance checks, performed at 200, 600, 1500, 3000 flight hour intervals, and of other flight hour and calendar scheduled inspections:

200FH Every 200 Flight Hours except when B, D inspections occur

B - Every 600 Flight Hours except when D inspection occurs

C - Every 1500 Flight Hours except when D inspection occurs

D - Every 3000 Flight Hours

Tasks required every 200 FH may be grouped for convenience into a single 200 Fh inspection.

All the tasks are grouped in function of ATA-100 code. There are four columns:

– Column B : if a “X” is indicated in this column, the task must be performed at each “B” inspection
– Column C : if a “X” is indicated in this column, the task must be performed at each “C” inspection
– Column D : if a “X” is indicated in this column, the task must be performed at each “D” inspection
(if there are more crossed boxes it means that the task has to be accomplished at different inspections)

– Column -Interval- : it provides some indications. Some examples follow:

- 1M / 3M / 6M mean that the task has to be accomplished every 1 / 3 / 6 months.
- 1Y / 2Y / 3Y / 5Y mean that the task has to be accomplished every 1 / 2 / 3 / 5 years.
- 2D / 3D / 4D mean that the task has to be accomplished every 2D / 3D / 4D inspections (i.e. 6000 / 9000 / 12000 FH)
- * means that the interval is set mandatory by the Airworthiness Authority of the country in which the airplane is registered.

If a task is prescribed at both flight hour and calendar limits, it must be complied with when one of these two limits occurs first.

B. Calendar times begin for each airplane on the original certification date (if not otherwise specified), recorded in the airplane logbook.

C. Owners and operators must adhere as closely as possible to all inspection intervals.

To facilitate scheduling inspections, an inspection interval tolerance of +/- 10FH for 200FH checks may be used. For example the first 200FH check, that is due at 200FH, may be accomplished between 190FH and 210FH. Next inspection will still be due at 400FH (+/- 10FH).

The 200 FH tasks due at 1400 FH may be accomplished between 1300 and 1400 FH.

The 200 FH tasks due at 1600 FH may be accomplished between 1600 and 1700 FH.

For B, C, D inspections the tolerance is +/- 30FH. Tolerance for calendar inspections is +/- 10% or +/- 30 days whichever the less.

If an inspection is completed earlier than applicable tolerance, next inspection must be scheduled in accordance with the following formula:

next inpection due Time/Date = Time/Date of inspection + standard inspection interval (+/- tolerance).

If for example an initial 200FH check is completed at 100FH, next 200FH check must be scheduled between 290 and 310 FH (300 +/- 10 FH). All subsequent inspections must be readjusted accordingly.

If an inspection is completed later than applicable tolerance next inspection must be scheduled at the regular subsequent inspection interval.

If for example an initial 200FH check is overflown to 220FH the next 200FH check must be scheduled between 390 and 410 FH (400 +/- 10 FH).

NOTE 1: The Maintenance Schedule is shown in the following Graph 5-20.

NOTE 2: For Engine maintenance checks refer to P&WC EMM Chapter 72-00-00. Engine routine checks shall be performed during the airplane preflight check and minor checks shall be performed in conjunction with "200 FH" nacelle inspection and other aircraft inspections as required.
The checks must be complied within the limits specified by P&WC if not otherwise specified by Piaggio Maintenance Schedule.

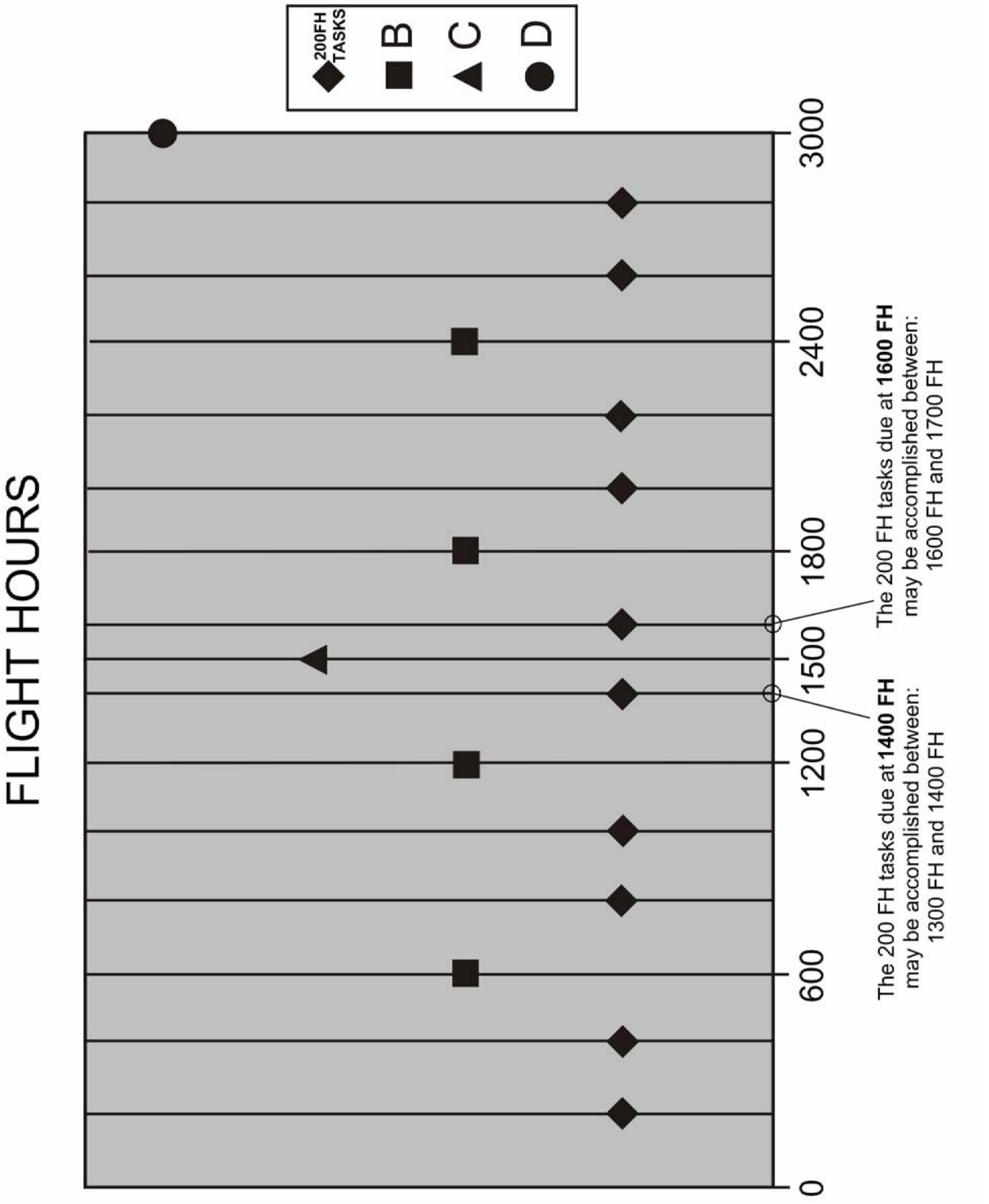
NOTE 3: For improved hot section durability P&WC recommends a functional test of the fuel adapter and nozzles (refer to P&WC EMM 72-00-00, Periodic Inspection)

NOTE 4: NDT's and Acceptance Criteria are detailed in Piaggio's Report 180-MAN-0300-01107 Non Destructive Test Manual. The detected acceptable defects must be recorded and maintained in a map.

NOTE 5: For airplanes flown under Category II Operations Rules refer to the additional inspection requirements listed in the applicable "Special Scheduled Inspections for Category II Operations" Table at the end of this Section.

(*): Some engine tasks are required initially at intervals not aligned with A/C scheduled maintenance inspections, and can be extended based on inspection results. It is suggested to analyze engine maintenance schedule, anticipating initial engine inspections during A/C scheduled maintenance tasks.

The inspection program is based on the assumptions of average flight duration of 1 hour and 200 FH or more per year. When actual flight operations significantly differ from these assumptions, tailored inspection programs may need to be defined.
Tailored inspection programs may also need to be defined to take into account for non standard aircraft operation (such as, but not limited to, training operation, low level flights, etc) and when the aicraft is operated in aggressive environments (such as, but not limited to, sandy or dusty environment or in smog or salt-laden atmosphere).
Refer also to Engine and Propeller maintenance manual for relevant information.



Graph 5-20. P180 AVANTI II Maintenance Schedule

SCHEDULED INSPECTIONS

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 11-00-00 Placards & Markings						
11-20-00	Airplane ID Plate	Inspect for security of installation and legibility.				**1Y**
11-20-00	Exterior Placards, Decals and Markings	Inspect for security of installation and legibility.				**1Y**
11-20-00	Interior Placards and Decals	Inspect for security of installation and legibility.				**1Y**
Chapter 12-00-00 Servicing						
12-20-00	Aircraft	Perform "200 FH aircraft light inspection and servicing" - (Ref. to AMM Chapter 12-20-00 Page Block 200)				**200FH**
12-21-00	LH Nacelle	Perform "200 FH nacelle light inspection and servicing" - (Ref. to AMM Chapter 12-21-00 Page Block 200)				**200FH**
12-21-00	RH Nacelle	Perform "200 FH nacelle light inspection and servicing" - (Ref. to AMM Chapter 12-21-00 Page Block 200)				**200FH**

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 21-00-00 Air Conditioning						
21-10-00	Bleed air ducts, Couplings,Fitting Assemblies and Check Valves	Inspect for security of installation, corrosion and evidence of bleed air leaks.	X		X	
21-10-00	Duct Fail Switch	Operational test			X	
21-10-00	Overtemperature Switches & Duct Fail Switches	Inspect for general condition and security of installation (Ref. to AMM Chapter 21-10-00 Page Block 200)		X	X	
21-10-00	Pressure Regulating/ Flow Control Valve	Inspect for signs of bleed air leaks, general condition and security of installation (Ref. to AMM Chapter 21-10-00 Page Block 200)	X		X	
21-10-00	Bleed Air Ducts Leakage Monitoring System	Functional Check of electrical circuitry and thermal switches (Ref. to AMM Chapter 21-10-00 Page Block 200)				1Y
21-20-00	Air Distribution Blower(s)	Inspect for general condition and security of installation of the electrical components	X		X	
21-20-00	Avionics Cooling Blowers	Inspect for security of installation and condition of electrical components. Check for proper operation (Ref. to AMM Chapter 21-20-00 Page Block 200). Instrument Panel Cooling Blower - Inspect for security of installation and condition of electrical connection.		X	X	
21-20-00	Baggage Compartment Heating Line	Inspect for general condition and evidence of damage (Ref. to AMM Chapter 21-20-00 Page Block 200).		X	X	
21-20-00	Cabin Overhead and Floor Diffusers	Inspect for general condition (Ref. to AMM Chapter 21-20-00 Page Block 200).		X	X	
21-20-00	Environmental Control Unit (Enviro System)	Inspect for general condition and security of installation (Ref. to AMM Chapter 21-40-00 Page Block 200).	X	X	X	
21-20-00	Flight Compartment Outlets and Floor Diffusers	Inspect for general condition (Ref. to AMM Chapter 21-20-00 Page Block 200).		X	X	
21-20-00	Nose Avionics Compartment Mixing Blower	Check for proper operation (Ref. to AMM Chapter 21-20-00 Page Block 200).		X	X	
21-20-00	Windshield Defog Manifold and Underfloor Ducts	Inspect for security of installation, evidence of air leaks and general condition (Ref. to AMM Chapter 21-20-00 Page Block 200).		X	X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
21-20-00	Air Distribution Hoses	Inspect for general condition and security of installation (Ref. to AMM Chapter 21-20-00 Page Block 200).		X	X	
21-30-00	Emergency Pressurization Valve	Inspect for signs of air leaks, security of installation and evidence of damage, condition of electrical components. Check for proper operation (Ref. to AMM Chapter 21-30-00 Page Block 200).		X	X	
21-30-00	Manual Rate Controller	Operational Check.	X			
21-30-00	Pressurization System	Drain line.		X	X	
21-30-00	Pressurization Control Ejector	Inspect-(Ref. to Amm Chapter 21-30-00 Page Block 200).	X		X	
21-30-00	Pressurization Control Ejector Filter	Inspect for security of installation and damages. Clean filter element (Ref. to AMM Chapter 21-30-00 Page Block 200).		X	X	
21-30-00	Pressurization Control System	Functional test (Ref. to AMM Chapter 21-30-00 Page Block 200).			X	
21-30-00	Pressurization Controller	Inspect for security of installation, evidence of damage and check pneumatic and electrical connections.		X	X	
21-30-00	Pressurization Outflow Valve	Inspect for security of installation, evidence of damage and check pneumatic and electrical connections for proper installation.		X	X	
21-30-00	Vacuum Regulating Valve	Inspect for security of installation (Ref. to AMM Chapter 21-30-00 Page Block 200).		X	X	
21-30-00	Manual Rate Controller	Inspection (Ref. to AMM Chapter 21-30-00 Page Block 200)	X		X	
21-30-00	Cabin Barometric Pressure Switch	Test Bench				2Y
21-40-00	Cabin & Flight Compartment Duct Check Valves (Enviro System)	Inspect for proper operation (Ref. to AMM Chapter 21-40-00).		X	X	
21-51-00	Freon Refrigeration Package)	Inspect for general condition and security of installation		X	X	
21-60-00	Bleed S/O Valves	Inspect for security of installation, signs of bleed air leaks and condition of electrical components (Ref. to AMM Chapter 21-60-00 Page Block 200).		X	X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
21-60-00	Duct Temperature Sensors	Inspect for general condition and security of installation (Ref. to AMM Chapter 21-60-00 Page Block 200).	X		X	
21-60-00	Environmental Control System	Operational test (Ref. to AMM Chapter 21-60-00 Page Block 200).	X		X	
21-60-00	Precooler	Inspect for security of installation and signs of bleed air leaks. (Ref. to AMM Chapter 21-60-00 Page Block 200).	X		X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 22-00-00 Auto Flight						
22-00-00	Autopilot	Functional test (Ref. to AMM Chapter 22-00-00 Page Block 500).		X	X	
22-10-00	Autopilot System	Inspect servo actuators and cables for proper installation (Ref. to AMM Chapters: 22-11-00 Page Block 200, 22-12-00 Page Block 200, 22-13-00 Page Block 200)	X	X	X	
22-10-00	Autopilot System (aircraft 1105 and subsequent)	Check cable tension (Ref. to AMM Chapters: 22-11-00 Page Block 200, 22 -12-00 Page Block 200, 22-13-00 Page Block 200)	X		X	
22-10-00	Autopilot System (aircraft 1002 only)	Check cable tension (Ref. to AMM Chapters: 22-11-00 Page Block 200, 22 -12-00 Page Block 200, 22-13-00 Page Block 200)	X	X	X	**200FH**
22-10-00	Autopilot System	Inspect for general condition and security of installation (Ref. to AMM Chapters: 22-10-00 Page Block 200, 22-11-00 Page Block 200, 22-12-00 Page Block 200, 22-13-00 Page Block 200)				**1Y**
22-10-00	Autopilot System (RVSM operations)	Performance Test (Altitude Hold) Ref. To AMM Chapter 34-11-00 Page Block 500)				**2Y**
22-10-00	Autopilot System Rockwell Collins SMT 65 Servo Mounts	Test (Ref. to Rockwell Collins Instruction Book P/N 523-0771862-00511A).				**3D**
22-10-00	Aileron Primary Servo and Servo Mount	Inspection (Ref. to AMM Chapter 22-11-00 Page Block 200).	X		X	
22-10-00	Elevator Primary Servo and Servo Mount	Inspection (Ref. to AMM Chapter 22-12-00 Page Block 200).	X		X	
22-10-00	Rudder Primary Servo and Servo Mount	Inspection (Ref. to AMM Chapter 22-13-00 Page Block 200).	X		X	
22-10-00	Autopilot Disconnect Aural Warning	Check DCU Channel for proper operation	X	X	X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 23-00-00 Communications						
23-00-00	Antennas	Inspect for general condition and security of installation (Ref. also to AMM Chapter 20-20-02 Page Block 200)	X		X	1Y
23-00-00	Wiring	Inspect for proper routing, chafing and evidence of damage (Ref. to AMM Chapter 20-20-01 Page Block 200).		X	X	
23-10-00	Communication System Rockwell Collins VHF-4000	Ramp test				*
23-10-00	Flight Compartment Communication, Control Units and Audio Equipment (including audio panels and cockpit speakers)	Inspect for general condition and security of installation	X	X	X	
23-11-00	Transceivers	Inspect for general condition and security of installation (Ref. to Chapter 23-11-00 Page Block 200)	X	X	X	
23-60-00	Static dischargers	Inspect for general condition and security of installation (Ref. to AMM Chapter 23-60-00 Page Block 200)	X		X	
23-70-00	CVR (if installed)-Underwater Acoustic Beacon Dukane DK120	Clean and perform battery check (Ref. to AMM Chapter 25-60-00 Page Block 200). Perform operational test				6M
23-71-00	CVDR (if installed)-Underwater Acoustic Beacon Dukane DK120	Clean and perform battery check (Ref. to AMM Chapter 25-60-00 Page Block 200). Perform operational test				6M

TEMPORARY REVISION NO. 128

To Chapter 05-20-00

This Temporary Revision is now considered a part of P. 180 Avanti II
TIME LIMITS AND MAINTENANCE SCHEDULE-CHAPTER 5

NOTE: Record the incorporation of this Temporary Revision on the RECORD OF TEMPORARY REVISIONS sheet at the front of the manual

Insert: TIME LIMITS AND MAINTENANCE SCHEDULE-CHAPTER 5
Report: 180-MAN-0200-01491 Rev. C1 Sept.21/12
After Page 10

Reason for issue : **Reference Update**

NOTE: The remainder of this page is INTENTIONALLY BLANK. Refer to page 1 of this Temporary Revision

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ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 24-00-00 Electrical Power						
24-00-00	Generator control units; inverters and AC control unit	Inspect for general condition and security of installation including grounding connections	X		X	
24-00-00	Wiring	Inspect for proper routing, chafing and evidence of damage (Ref. to AMM Chapter 24-00-00 Page Block 200).		X	X	
24-20-00	Ground Fault Interrupter (if applicable)	Test, through "TEST GFI" button on the unit (Refer to AMM 24-20-00 page block 200)	X	X	X	1Y
24-20-00	Cabin Barometric Pressure Switch (if inverter P/N SS50 is installed)	Cabin Barometric Pressure Switch - Test Bench (Refer to AMM 21-30-00 page block 200)				2Y
24-30-00	Battery	Inspect for spewage.				6M
24-31-00	Battery	Battery deep cycle.	X		X	
24-31-00	Battery Installation	Inspect grounding connection . Inspect plate and bay for corrosion. Inspect temperature system connector. Inspect for spewage.	X	X	X	1Y
		Temperature Indication Operational Test (MFD).	X	X	X	1Y
24-30-00	Emergency Power Unit	Capacity Test (Ref. to L-3 Avionics Systems, Inc. Component Maintenance Manual PS-850//PS-855)				6M
24-30-00	Starter/Generator Air Cooling Ducts	Inspect for general condition and presence of obstructions.	X	X	X	1Y
24-30-00	Starter/Generator	Inspect for general condition including grounding connection	X	X	X	
24-30-00 24-60-00	DC Generation and Distribution	Functional tests (Ref. to AMM Chapter 24-30-00 Page Block 200 and 24-60-00 Page Block 200).	X		X	
24-40-00	Cable Harness	Inspect harness between battery/main junction box and external receptacle for damage.	X		X	
24-40-00	External Power Receptacle	Inspect for absence of damage, corrosion and arching.	X		X	
24-60-00	Auxiliary Config. Electrical Supply System (if applic.)	Check for proper voltage.	X		X	

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ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 24-00-00 Electrical Power						
24-00-00	Generator control units; inverters and AC control unit	Inspect for general condition and security of installation including grounding connections	X		X	
24-00-00	Wiring	Inspect for proper routing, chafing and evidence of damage (Ref. to AMM Chapter 24-00-00 Page Block 200).		X	X	
24-20-00	Ground Fault Interrupter (if applicable)	Test, through "TEST GFI" button on the unit (Refer to AMM 24-20-00 page block 200)	X	X	X	1Y
24-20-00	Cabin Barometric Pressure Switch (if inverter P/N SS50 is installed)	Cabin Barometric Pressure Switch - Test Bench (Refer to AMM 21-30-00 page block 200)				2Y
24-30-00	Battery	Inspect for spewage.				6M
24-31-00	Battery	Battery deep cycle.	X		X	
24-31-00	Battery Installation	Inspect grounding connection . Inspect plate and bay for corrosion. Inspect temperature system connector. Inspect for spewage.	X	X	X	1Y
		Temperature Indication Operational Test (MFD).	X	X	X	1Y
24-30-00	Emergency Power Unit	Capacity Test (Ref. to Goodrich Avionics Systems - Installation and Operation Manual PS-850 // PS-855				6M
24-30-00	Starter/Generator Air Cooling Ducts	Inspect for general condition and presence of obstructions.	X	X	X	1Y
24-30-00	Starter/Generator	Inspect for general condition including grounding connection	X	X	X	
24-30-00 24-60-00	DC Generation and Distribution	Functional tests (Ref. to AMM Chapter 24-30-00 Page Block 200 and 24-60-00 Page Block 200).	X		X	
24-40-00	Cable Harness	Inspect harness between battery/main junction box and external receptacle for damage.	X		X	
24-40-00	External Power Receptacle	Inspect for absence of damage, corrosion and arching.	X		X	
24-60-00	Auxiliary Config. Electrical Supply System (if applic.)	Check for proper voltage.	X		X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
24-60-00	Main Junction Box	Inspect for general condition and security of installation (Ref. to AMM Chapter 24-60-00 Page Block 200).	X		X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 25-00-00 Equipment and Furnishing						
25-00-00	Cabin and flight compartment inspection	Inspect the passenger cabin and the flight compartment for objects which might foul the airplane control				1Y
25-00-00	Flight, Cabin and Baggage Compartments	Inspect for general condition. Inspect seats and safety belts for proper attachment. Inspect flight compartment for absence of loose equipment that might foul the controls.				1Y
25-20-00	Passengers compartments Seats and Seats Belts	Inspect for general condition and security of installation.	X	X	X	
25-20-00	Passengers compartments Seat Rails	Inspect for security of installation and absence of abnormal wear.		X	X	
25-20-00	Flight compartment Seat Rails	Inspect for security of installation and absence of abnormal wear.		X	X	
25-20-00	Flight compartment Seats and Seats Belts	Inspect for general condition and security of installation.	X	X	X	
25-60-00	ELT (AF) Type 503 - Techtest	Operational test (Ref. to AMM Chapter 25-60-00).				3M
25-60-00	ELT (AF) Type 503 - Techtest	Functional test (Ref. to AMM Chapter 25-60-00).				6M
25-60-00	ELT (AF) C406-N Artex	Operational test (Ref. to AMM Chapter 25-60-00).				6M
25-60-00	ELT (AF) C406-N Artex	Functional test (Ref. to AMM Chapter 25-60-00).				1Y
25-60-00	Underwater Aircraft Acoustic Beacon Dukane DK100 (if installed)	Clean and perform battery check (Ref. to AMM Chapter 25-60-00 Page Block 200). Perform operational test.				6M
25-60-00	First Aid Kit	Visual Inspection (Ref. to AMM Chapter 25-60-00 Page Block 200).				6M

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 26-00-00 Fire Protection						
26-00-00	Fire Extinguishing Electrical Circuit (if installed)	Check for continuity.	X		X	1Y
26-10-00	Fire Overheat Detector and Sensor Lines	Inspect for general condition and security of installation (Ref. to AMM Chapter 26-10-00 Page Block 200).	X		X	
26-20-00	Engine Fire Extinguishing Bottles (if installed)	Visual inspection and weight check (Ref. to AMM Chapter 26-20-00 Page Block 200).				1Y
26-20-00	Fire Extinguisher Bottles and Deployment Tubes (if installed)	Inspect for general condition and security of installation (Ref. to AMM Chapter 26-20-00 Page Block 200).	X		X	
26-20-00	Portable Fire Extinguisher, if installed. (aircraft S/N 1105 and subsequents)	Visual inspection. Check nozzle for obstruction. Check pressure gage proper range. Check lockpin and wireseal for proper installation. Extinguisher gross weight is 4 lb. 14 oz +/- 4 oz (including the nozzle). Refill if the extinguisher loses more than 2 oz.	X	X	X	1Y
26-20-00	Portable Fire Extinguisher. (aircraft S/N 1002 only)	Visual inspection. Check nozzle for obstruction. Check pressure gage proper range. Check lockpin and wireseal for proper installation. Extinguisher gross weight is 4 lb. 14 oz +/- 4 oz (including the nozzle). Refill.				1M

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 27-00-00 Flight Controls						
27-00-00	Aileron Trim Tab	Perform visual inspection and manual check for play	X	X	X	
27-00-00	Control surfaces hinges	Inspect for corrosion				5Y
27-00-00	Flight Controls	Check for smooth travel. Check surfaces electrical bonding (Ref. to AMM Chapter 20-20-02).				1Y
27-00-00	Trim Systems	Perform full strokes and check instrument indication	X	X	X	
27-10-00	Aileron Levers	Check for secure locking, wear, and proper play		X	X	
27-10-00	Aileron Control Rod Adjustable Linkages	Verify the drain holes for cleanliness and proper condition. (Ref. to AMM Chapter 27-00-00)			X	
27-10-00	Aileron Control System	Check aileron cable tension (Ref. to AMM Chapter 27-00-00 Page Block 202).	X		X	
27-10-00	Aileron Control System	Check for general condition, sectors for security of installation. Check the surface stop effectiveness.	X	X	X	
27-10-00	Aileron Control System	Check and record play and check friction. Check a complete stroke. Check the ailerons for clearance and adjust as necessary. (Ref. to AMM Chapter 27-10-00 Page 501)		X	X	
27-10-00	Aileron Control System	Release cable tension and inspect all components and their supports (cables, pulleys, cable guards, seals, quadrants, levers, rods, and bellcranks) for general condition, security of installation and evidence of damage. Check turnbuckle locking for security of installation (including the control wheel ones). Check the cable winding inside the control wheels.			X	
27-10-00	Aileron Control System	Inspect the attachment of the cables to the extremity sectors. Inspect the cables at their passages, including the rear pressurized bulkhead sections.		X	X	
27-10-00	Aileron Control System Lever at Wing Stations 5155	Eddy Current inspection for cracks. (Ref. to NDT Manual 27-10-00)			X	
27-10-00	Aileron Trim System	Functional test (Ref. to AMM Chapter 27-10-00 Page Block 500).		X	X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
27-10-00	Aileron Control Wheel	Check and record complete stroke, friction, play and control system elasticity			X	
27-10-00	Aileron Trim System	Inspect for general condition and security of installation. Check play (Ref. to AMM Chapter 27-10-00 Page Block 500).		X	X	
27-10-00	Aileron Trim System	Check for electrical insulation (Ref. to AMM Chapter 27-10-00 Page Block 500).		X	X	
27-20-00	Rudder Assembly Fitting Attachments	Visual inspection of torque tube attachment to rudder assembly	X	X	X	
27-20-00	Rudder Control System	Check for general condition, security of installation, free and smooth travel. Check surface stop effectiveness.	X	X	X	
27-20-00	Rudder Control System	Check and record play, check friction. Check complete stroke. Check the rudder for clearance and adjust as necessary		X	X	
27-20-00	Rudder Control System	Release cable tension and inspect all components and their supports (cables, pulleys, cable guards, seals, levers, sectors and bellcranks) for general condition, security of installation and evidence of damage. Check turnbuckle locking for security of installation (including the control wheel ones).			X	
27-20-00	Rudder Control System	Inspect the attachment of the cables to the extremity sectors. Inspect the cables at their passages, including the rear pressurized bulkhead section.		X	X	
27-20-00	Rudder Control System and Autopilot Cables	Check the cable tension (Ref. to AMM Chapter 27-00-00 Page Block 200).	X		X	
27-20-00	Rudder Pedals	Check play.	X		X	
27-20-00	Rudder Trim System	Inspect for general condition and security of installation. Check and record play (Ref. to AMM Chapter 27-20-00 Page Block 500).		X	X	
27-20-00	Rudder Trim System	Check for electrical insulation (Ref. to AMM Chapter 27-20-00 Page Block 500).		X	X	
27-31-00	Angle of Attack Transmitter	Inspect for slot cleanliness and freedom of movement.				1Y

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
27-30-00	Control Columns	Check a complete stroke, friction and play, with stabilizer at the positions FULL UP - FULL DOWN - NEUTRAL (+2 ; -8 ; 0 degrees).		X	X	
27-30-00	Elevator Control System	Check smooth travel with stabilizer at -4.5 deg (spring at neutral condition) and verify spring proper effectiveness with stabilizer at full UP and full DOWN.	X	X	X	
27-30-00	Elevator Control System	Check the cable tension (Ref. to AMM Chapter 27-00-00 Page Block 200).	X		X	
27-30-00	Elevator Control System	Release cable tension and inspect all components and their supports (cables, pulleys, cable guards, seals, levers, sectors and bellcranks) for general condition, security of installation and evidence of damage. Check turnbuckle locking for security of installation (including the control wheel ones).			X	
27-30-00	Elevator Control System	Inspect the attachments of the cables to the extremity sectors. Inspect the cables at the passage through the rear pressurized bulkhead.	X		X	
27-30-00	Elevator Control System	Rod Adjustable Linkages - Verify the drain holes for cleanliness and general condition.			X	
27-30-00	Stall Warning	Operational Test (Ref. to AMM Chapter 27-31-00 Page Block 500).	X	X	X	
27-40-00	Horizontal Stabilizer	Friction Test (Refer to chapter 27-40-00 Page Block 500)		X	X	
27-40-00	Horizontal Stabilizer Trim System	Operational Check	X			1Y
27-40-00	Horizontal Stabilizer Trim System	Functional test (Ref. to AMM Chapter 27-40-00 Page Block 500).			X	
27-40-00	Horizontal Stabilizer Trim System	Inspect for general condition and security of installation		X	X	
27-40-00	Aft Elevator Bellcranks, Brackets, Bolts, Support and Assy	Remove and perform an accurate visual inspection of all the separate elements. Check bushings for out-of-round condition and perform dye penetrant inspection / magnetic inspection of pins for cracks.				2D
27-50-00	Inboard Flap Screwjacks	Lubricate				400FH

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
27-50-00	Flap Drive Unit and Motors	Inspect for general condition and security of installation.		X	X	
27-50-00	Flap Screwjacks	Inspect for general condition, security of installation and clean				2D
27-50-00	Flap System	Operational test. (Functional test if flaps removed).	X			1Y
27-50-00	Flap System	Functional test.			X	
27-50-00	Flap System ECU and MID Interlock Circuit	Operational test.	X		X	
27-50-00	Flap transmission Shafts	Supplier in-house. Inspection and replacement of gimbals if required.				2D
27-50-00	Flap Transmission Shafts, Supports	Inspect for general condition and security of installation. Inspect bevel gearboxes for lubricant leakage. Check screwjacks for corrosion.			X	
27-50-00	Fwd Flap Actuators and Fittings	Visual inspection for general condition.	X		X	1Y
27-50-00	Fwd Wing Flap Fittings	Inspect for corrosion.				1Y
27-50-00	Fwd Wing Flaps and Support Fittings	Visual inspection for general condition.	X		X	1Y
27-50-00	Outboard & Inboard Wing Flap Fittings and Tracks	Inspect for general condition, security of installation and condition of rollers. Inspect the bonding tracks for general condition.	X		X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 28-00-00 Fuel System						
28-00-00	Flame Arrestors -	Remove and check for obstruction.	X		X	
28-00-00	Wing Tank/Collector Tank/Auxiliary Tank Area and Components	Inspect for General Condition and Check for leaks (Ref. to AMM Chapter 28-00-00 Page Block 200).	X	X	X	
28-11-00	Fuel Collector & Auxiliary Tanks	Inspect for corrosion and evidence of damage.			X	5Y
28-11-00	Interconnecting Valve	Inspect for leaks, general condition and security of installation.		X	X	
28-11-00	Pressure Refueling Pilot valve	Inspect for general condition and security of installation.			X	
28-11-00	Wing Tank / Collector Tank connection	Inspect for general condition and security of installation, check for leaks (Ref. to AMM Chapter 28-00-00)	X	X	X	
28-15-00	Fuel Filter Drain Valves	Drain lines: remove the valves and check that the top washers are correctly flat. Replace the valve(s) if necessary (Ref. to AMM Chapter 28-20-00 Page Block 200).		X	X	
28-20-00	Fuel Crossfeed and Shut-Off Valve -	Inspect for leaks, general condition and security of installation.	X		X	
28-20-00	Fuel Distribution System	Operational Test (Ref. to AMM Chapter 28-20-00 Page Block 200).	X	X	X	
28-20-00	Fuel Filter Impending By-pass Flight Compartment Indication	Operational check.	X		X	
28-20-00	Impending By-pass	Inspect for leaks, general condition and security of installation.	X		X	
28-20-00	Nacelle Fuel Lines, Hoses and Accessories	Inspect for deterioration, evidence of damage, leakages and security of installation (Ref. to AMM Chapter 28-00-00).	X	X	X	
28-40-00	Fuel Quantity Indication System	Check for proper indication. (Ref. to AMM Chapter 28-40-00 Page Block 200).		X	X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 29-00-00 Hydraulic Power						
29-00-00	Hydraulic system	Check for leakage		X	X	
29-00-00	Hydraulic System	Oil contamination analysis		X	X	
29-00-00	Hydraulic System	Operational test (Ref. to AMM Chapter 29-00-00 Page Block 200).	X	X	X	
29-10-00	Hydraulic Package	Inspect the ground connecting strap for condition and oxydation and the motor positive pole for damage, Inspect for leaks, security of installation, cleanliness and hose conditions. Check motor brushes for wear. Inspect the electrical low level fluid transmitter for damage and the filling cap for security of installation. Inspect control unit for general condition and security of installation.	X		X	
29-10-00	Hydraulic Pressurization Lines	Inspect fittings for security of installation. Remove and clean relief valve, check valve and orifices (Ref. to AMM Chapter 29-11-00 Page Block 200).	X	X	X	1Y
29-10-00	Pressurization Filters	Remove, clean and install the filter element (Ref. to AMM Chapter 29-11-00 Page Block 200).		X	X	
29-10-00	Pressurization Line Cap	Inspect for security of installation.	X	X	X	
29-20-00	Hand Pump	Inspect for leaks and security of installation and proper operation (See AMM Chapter 32-00-00)	X		X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 30-00-00 Ice & Rain Protection						
30-10-00	Fwd Wing Anti-Ice Protection System	Operational test (Ref. to AMM Chapter 30-12-00 Page Block 200).	X			
30-10-00	Fwd Wing Anti-Ice Protection System	Functional test (Ref. to AMM Chapter 30-12-00 Page Block 200).		X	X	
30-10-00	Fwd Wing Anti-Ice Protection System Relays & RCCB's	Functional test (Ref. to AMM Chapter 30-12-00 Page Block 200).		X	X	
30-10-00	Fwd wing leading edges	Visual Inspection (Ref. to AMM Chapter 30-12-00 Page Block 200)		X	X	
30-10-00	Main Wing Anti-Ice System	Visual inspection and Operational test (Ref. to AMM Chapter 30-11-00 Page Block 200).	X	X	X	
30-10-00	Wing Anti-Ice Ducts	Inspect for general condition.			X	
30-10-00	Wing Mixing Ejector and RAM-Air Ducts, S/O Valve and Duct Switches	Inspect for general condition and security of installation (Ref. to AMM Chapter 30-11-00 Page Block 200).	X		X	
30-10-00	Wing Overheat Warning Circuit	Check for electrical continuity (Ref. to AMM Chapter 30-11-00).	X		X	
30-10-00	Wing Temperature Regulator Box	Inspect for security of installation (Ref. to AMM Chapter 30-11-00 Page Block 200).	X		X	
30-20-00	Inertial Separator System	Visual Inspection and operational test (Ref. to AMM Chapter 30-22-00 Page Block 200).	X	X	X	
30-20-00	Nacelle Air Intake Vanes	Visual inspection of all honeycomb based structures/panels.	X		X	1Y
30-20-00	Oil Cooler Air Intake - Anti Ice Protection System	Operational Test (Ref. to AMM Chapter 30-23-00 Page Block 200).	X		X	
30-20-00	Engine Air Intake Lip De-Icing System	Visual inspection and operational test (Ref. to AMM Chapter 30-21-00 Page Block 200).	X		X	
30-30-00	Pitot Static Ports, AoA and TAT Transmitter Anti Ice Systems	Operational Check (Ref. to AMM Chapter 30-30-00 Page Block 200	X	X	X	
30-40-00	Windshield Anti-Ice Protection System Overheat Warning Circuit	Operational test (Ref. to AMM Chapter 30-40-00).		X	X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
30-40-00	Windshield Heating	Check for continuity/resistance (Ref. to AMM Chapter 30-40-00 Page Block 200).		X	X	
30-40-00	Windshield Heating. De fog resistance. (aircraft S/N 1002 only)	Inspect for security of installation		X	X	
30-40-00	Windshield Anti-Ice Protection System Relays and RCCB's	Functional test (Ref. to AMM Chapter 30-40-00 Page Block 200).		X	X	
30-80-00	Ice Detector	Operational test (Ref. to AMM Chapter 30-80-00 Page Block 200).	X	X	X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 31-00-00 Indicating & Recording Systems						
31-10-00	Aural Warning Box	Inspect for general condition and security of installation.	X		X	
31-10-00	Circuit Breaker Panels	Inspect pilot and copilot CB panels for general condition and security of installation.	X		X	
31-10-00	Control Pedestal	Inspect the individual instruments, instrument & switch panels for general condition and security of installation.	X		X	
31-10-00	Instrument Panel	Inspect the individual instruments, instrument & switch panels for general condition and security of installation.	X		X	
31-10-00	System test Selector	Inspect for general condition and security of installation.	X		X	
31-10-00	Integrated Avionics Processor System (IAPS)	Check for security of installation	X	X	X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 32-00-00 Landing Gear						
32-00-00	Landing Gear	Operational Test				1Y
32-00-00	Landing Gear	Perform hand pump gear extension.	X		X	1Y
32-00-00	Landing Gear	Functional test (Ref. to AMM Chapter 32-00-00 Page Block 500).		X	X	
32-00-00	Landing Gear	Check the wiring connected to the microswitches for general condition and security of installation. Check electrical bonding for general condition and security of installation.	X	X	X	
32-10-00	Landing Gear	Lubricate (Ref. to AMM Chapter 12-21-01 Page Block 300).	X	X	X	180 LDGS or 1Y
32-10-00	Landing Gear Door Adjustable Linkages	Check the adjustable ends and rods for wear and corrosion. Nose: (Ref. to AMM Chapter 32-20-00 Page Block 200.) Main: (Ref. to AMM Chapter 32-11-00 Page Block 200)			X	
32-10-00	Main Landing Gear Strut(s)	Check Nitrogen Pressure (Ref. to AMM Chapter 12-10-03 Page Block 300).	X	X	X	1Y
32-11-00	Main Landing Gear	Inspect for general condition and security of installation	X	X	X	
32-11-00	Main Landing Gear Door Mechanism	Inspect for general condition and security of installation (Ref. to AMM Chapter 32-00-00 Page Block 500)	X	X	X	
32-20-00	Nose Landing Gear	Inspect for general condition and security of installation	X	X	X	
32-20-00	Nose Landing Gear Door Mechanism	Inspect for general condition and security of installation (Ref. to AMM Chapter 32-20-00 Page Block 200).	X	X	X	
32-20-00	Nose Landing Gear Strut	Check Nitrogen Pressure (Ref. to AMM Chapter 12-10-02 Page Block 300).	X	X	X	1Y
32-30-00	Emergency Extension System	Inspect selector handle and valve for general condition ande security of installation.	X		X	
32-30-00	Service Selector Valve	Inspect for general condition and security of installation.	X		X	
32-40-00	Brake Pumps	Inspect for general condition and security of installation.		X	X	
32-40-00	Brake System Rods	Inspect for general condition (Ref. to AMM Chapter 32-42-00).	X		X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
32-40-00	Brakes	Inspect for security of installation (Ref. to AMM Chapter 32-42-00 Page Block 200).	X	X	X	
32-40-00	Main Gear Wheels	Inspect for general condition and security of installation (Ref. to AMM Chapter 32-41-00 Page Block 200).	X		X	
32-40-00	Normal and Emergency Brake Valve	Inspect for general condition and security of installation.	X		X	
32-40-00	Normal and Emergency Parking Lines	Inspect for general condition and security of installation.	X		X	
32-40-00	Nose Gear Wheels	Inspect for general condition and security of installation (Ref. to AMM Chapter 32-41-00 Page Block 200).	X		X	
32-40-00	Parking Brake	Inspect control knob and cable for security of installation.		X	X	
32-40-00	Parking Valve and Three-Way Valve	Inspect for general condition and security of installation.		X	X	
32-40-00	Tires	Inspect for wear, cuts, inflation, cleanliness and evidence of damage (Ref. to AMM Chapter 32-41-00 Page Block 200).	X	X	X	1Y
32-50-00	Steering Filter	Inspect for general condition and security of installation.	X		X	
32-50-00	Steering System	Operational test (Ref. to AMM Chapter 32-00-00 Page Block 501).	X		X	
32-50-00	Steering System	Inspect for general condition and security of installation	X	X	X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 33-00-00 Lights						
33-00-00	External lights	Operational check				1Y
33-10-00	Annunciator Bright/ Dimmed Lights	Check for proper operation.	X		X	
33-10-00	Dimmer Light Control Panel	Inspect for security of installation.	X		X	
33-10-00	Dual Map Lights	Inspect for security of installation and check for proper operation.	X		X	
33-10-00	Electroluminescent Panels	Check for legibility and for proper operation.	X		X	
33-10-00	Floodlights & Domelights	Inspect for security of installation and check for proper operation	X		X	
33-10-00	Instrument Lighting, Internal	Check for proper operation.	X		X	
33-20-00	Passenger Compartment Lighting System	Inspect for security of installation and check for proper operation.	X		X	
33-30-00	Baggage Compartment Light	Inspect for security of installation and check for proper operation (if installed).	X		X	
33-40-00	Anti-collision Strobe Lights and Power Supplies	Inspect for general condition, security of installation and check for proper operation.	X		X	
33-40-00	Ground Beacon Light and Flasher Unit	Inspect for general condition, security of installation and check for proper operation.	X		X	
33-40-00	Landing and Taxi Lights Door and Actuator	Inspect for general condition, security of installation and check for proper operation.	X		X	
33-40-00	Position Lights	Inspect wing tip light assemblies for general condition, security of installation and check for proper operation.	X		X	
33-40-00	Recognition Light	Inspect for general condition, and security of installation.	X		X	
33-40-00	Wing Inspection Light	Inspect for general condition and check for proper operation.	X		X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 34-00-00 Navigation/Pitot & Static						
34-00-00	Navigation System	Ramp test				*
34-00-00	Navigation System Antennas	Inspect for general condition and security of installation (Ref. also to AMM Chapter 20-20-02 Page Block 200).	X		X	1Y
34-00-00	Wiring	Inspect for proper routing, chafing and evidence of damage (Ref. to AMM Chapter 20-20-01 Page Block 200).		X	X	
34-10-00	Pilot & Copilot Air Data System - St. By Instrument Air Data Section	Inspect for Security of Installation and General Condition. Test as per FAR 91.411, to accomplish Part 43 Appendix E.				2Y
34-10-00	Navigation Apparatus	Inspect for general condition and security of installation of the following units wherever located (including the mounts when installed): Weather Radar apparatus and Antenna/ Transceiver; Glide Slope apparatus and Antenna; DME; PRI/SEC AHRS; PRI/SEC ADC; IAPS; PRI/SEC VHF NAV; PRI/SEC Transponders; Radio Altimeter; Stall Warning computer; TCAS/ACAS; TAWS/EGPWS	X		X	
34-10-00	Pitot / Static System	Pitot Static Leak Test (Ref. to AMM Chapter 34-11-00 Page Block 200).				2Y
34-10-00	Pitot Tubes, Static Ports and Lines	Inspect for general condition and security of installation; perform line checks and clean (Ref. to AMM Chapter 34-11-00 Page Block 200)		X	X	
34-11-00	RVSM Air Data System (RVSM operations)	Ground test (Ref. to AMM Chapter 34-11-00 Page Block 500).				1Y
34-11-00	RVSM Critical Region (RVSM operations)	Visual inspection (Ref. to AMM Chapter 34-11-00 Page Block 200).				1Y
34-10-00	Pitot & Static Lines	Drain				1Y
34-10-00	Static Ports (RVSM operations)	Outer Plate and Inner Port step height measurement (Ref. to AMM Chapter 34-11-00 Page Block 200).				2Y
34-10-00	St. By Instrument ISI GH3100	Operational test (Ref. to AMM Chapter 34-13-00 Page Block 200)				6M
34-20-00	Magnetic Compass	Inspect for general condition. Adjustment/Test (Ref. to Chapter 34-23-00 Page Block 200)				2Y

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
34-40-00	Weather Radar	Operational test (Ref. to AMM Chapter 34-41-00 Page Block 200).				1Y
34-10-00	TCAS I System (if installed)	System test (Autotest) (Ref. to AMM Chapter 34-40-00 Page Block 200).				1Y
34-50-00	ATC Transponder System	Calibration as per FAR 91.413, to accomplish FAR 43 App.F.				2Y

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 35-00-00 Oxygen						
35-00-00	Cabin Altitude Switch	Inspect for general condition and security of installation.	X		X	
35-00-00	Oxygen Pressure Gage	Inspect for general condition.	X		X	
35-00-00	Oxygen System	Operational test. Inspect masks and disposing units for general condition. Check for proper installation after repack. (Ref. to AMM Chapter 35-00-00). Drop Test.	X		X	
35-00-00	Oxygen System: Supply Pressure Regulator & S/O Valve, Capillary and filling Lines, Filling Valve, Safety Valve	Inspect for AMM Chapter 35-00-00 Page Block 200.		X	X	
35-00-00	Smoke Goggle	Inspect for AMM Chapter 35-00-00 Page Block 200.				**6M**
35-10-00	Crew Masks & Hoses	Inspect for general condition and security of installation.	X		X	
35-20-00	Oxygen Barometric Pressure Switch	Cabin Barometric Pressure Switch - Test Bench (Refer to AMM 35-20-00 page block 200)				**2Y**
35-20-00	Oxygen System Crew Masks	Operational test.				**3Y (from Assy Date or from last over-haul)**

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 36-00-00 Pneumatic						
36-10-00	Bleed Air Ducts, Couplings, Fitting Assemblies and Check Valves	Inspect for security of installation, corrosion and evidence of bleed air leaks (Ref. to AMM Chapter 36-10-00 Page Block 200).	X		X	
36-10-00	Door Seal Pressurization Lines	Inspect for general condition and security of installation (Ref. to AMM Chapter 36-11-00 Page Block 200).		X	X	
36-10-00	Emergency Line Bleed Air Ducts (protected by the sheats)	Leak check (Ref. to AMM Chapter 36-10-00 Page Block 200).		X	X	
36-10-00	Door Seal Pressure Regulator and S/O Valves, Pressure Switches and Check Valves	Remove and dry. Vent lines with items removed (Ref. to AMM Chapter 36-11-00).	X		X	
36-10-00	Door Seal Pressurization System	Drain (Ref. to AMM Chapter 36-11-00). Note: the door seal inspection is mentioned in Chapter 52-10-00.	X	X	X	1Y

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 52-00-00 Doors						
52-00-00	Cabin Upper Entry Door Structure and Pin Guides	Inspection for cracks. Relevant NDT inspection if required; then repeat the inspection after 3000 FH.				3D
52-00-00	Door Seal	Inspect for general condition and security of installation.	X	X	X	
52-00-00	Upper & Lower Cabin Door	Visual inspection (Ref. to AMM Chapter 52-11-00 Page Block 200 and 52-12-00 Page Block 200 and check lockpin extension and mechanism overcenter.	X	X	X	
52-00-00	Upper & Lower Cabin Door	Measure and record lockpin extension and mechanism overcenter	X		X	
52-00-00	Emergency Exit Door	Visual inspection and operational test (external / internal removal of the door and subsequent internal installation).	X		X	
52-30-00	Baggage Door, Seal, Handle, Keylock, and Hinges	Inspect for general condition and security of installation.	X	X	X	
52-70-00	Door Warning System	Inspect the switches of the cabin and the baggage door for general condition and security of installation. Check for proper operation.	X		X	
52-81-00	Nose Landing Gear Doors	Perform inspection (Ref. to AMM Chapter 52-81-00 Page Block 200).	X		X	
52-82-00	Main Landing Gear Doors	Perform inspection (Ref. to AMM Chapter 52-82-00 Page Block 200).	X		X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 53-00-00 Fuselage						
53-00-00	Glareshield	Inspect for general conditions and integrity	X		X	
53-00-00	Flight Compartment Upper Stringers and Frames	Inspect for corrosion.				3D
53-00-00	Bottom fuselage skin, and structural members	Inspect beams and fuselage internal skin, under central and lateral floor for corrosion and damage				5Y
53-00-00	Floor Panels	Inspect for structural damage and security of installation. Metallic panel (if installed) inspect for corrosion.		X	X	
53-00-00	Fuselage Belly	Drain	X	X	X	6M
53-00-00	Fuselage Belly Moisture Drain Holes	Inspect pressurized and unpressurized areas and drain holes for obstruction and evidence of corrosion.		X	X	
53-00-00	Fuselage Belly	Internal belly – central bays – drain holes check and cleaning (Ref. to AMM Chapter 53-00-00 Page Block 200)	X	X	X	1Y
53-00-00	Fuselage External Skin, Baggage Compartment and MLG FWD Bay	Inspect for general condition and leakages.	X	X	X	
53-00-00	Seat Rail Attachments	Inspect for security of installation, proper alignement and absence of wear and corrosion.		X	X	
53-00-00	Stringers and Frames Cabin and Baggage Compartments	Inspect for damage and corrosion.			X	
53-00-00	Forward Pressurized Bulkhead	Inspect for cracks, corrosion and evidence of structural damage.			X	5Y
53-00-00	Fwd Pressurized Bulkhead	Eddy current inspection for cracks in nose avionics compartment; then repeat the inspection after 3000 FH.				3D
53-10-00	NLG Bay	Inspect for corrosion.				1Y
53-10-00	NLG Bay	Inspect NLG attach fittings, supporting structure and surrounding areas for general condition.	X		X	
53-10-00	Radome	Visual inspection. Check for static discharge pitting. Inspect electrical bonding straps for general condition.	X	X	X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
53-10-00	Radome Diverter Strips (aircraft S/N 1002 only).	Inspect for security of installation	X	X	X	200FH
53-10-00	Windshield Upper & Lower Beams and Upper Beam Cross	Internal visual inspection for cracks. Then repeat the inspection after 3000 FH.				3D
53-10-00	Fuselage-to-Fwd Wing Supports	Eddy current inspection of fitting lugs, rods and attachments.			X	
53-30-00	Cabin Entry Door Cut Out	Eddy current inspection; then repeat the inspection at 3B				3D
53-40-00	Rear Pressurized Bulkhead	Inspect for cracks, corrosion and evidence of structural damage.			X	5Y
53-60-00	Fuselage Integral Tank	Inspect for general condition and corrosion through the access panels.			X	5Y
53-60-00	Main Landing Gear Bay	Inspect MLG attachments, supporting structure and surrounding areas for general condition.	X		X	
53-60-00	MLG Bay	Inspect for corrosion. Inspect drains for presence of water / slush.				1Y
53-80-00	Metallic Tail Cone (incl. Vertical Stabilizer)	Visual inspection of outer skin for cracks and corrosion.				1Y
53-80-00	Tailcone Skins	Visual inspection of stringer/skin joints. Visual inspection of bulkhead fairleads for proper condition.	X		X	
53-80-00	Tailcone-to-Fuselage Joint	Visual inspection of fasteners for working and looseness.	X		X	
53-80-00	Ventral Fins	Coin tapping inspection			X	
53-80-00	Ventral Fins	Inspect for general condition and security of installation.	X	X	X	
53-80-00	Ventral Fins Attachments	Radiographic inspection of flanges.			X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 54-00-00 Nacelles						
54-10-00	Nacelle Panels	Visual Inspection (Ref. to AMM Chapter 54-10-00 Page Block 200).	X	X	X	
54-10-00	Nacelle Outer Panel Skins (including rear panels if in composite)	Coin tapping test (Ref. to NDTM).		X	X	
54-10-00	Nacelle Panels	Coin tapping test of oil cooler duct bond (Ref. to NDTM).			X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 55-00-00 Stabilizers						
55-10-00	Horizontal Stabilizer Assembly	Visual inspection of upper and lower skins and leading edges for nicks, dents check electrical bonding connection for general condition.	X	X	X	1Y
55-10-00	Horizontal Stabilizer/ Elevator Hinge Fitting Supports & Lugs	Accurate visual inspection of hinge fitting lugs and attachments.			X	
55-10-00	Horizontal Stabilizer/ Elevator Titanium Support	Dye penetrant inspection for cracks.			X	
55-10-00	Horizontal Stabilizer Assembly	Remove and perform ultrasonic check by Pulse Echo of upper skin/lower skin/ torque box bond.			X	
55-10-00	Horizontal Stabilizer Assembly	Perform Electrical continuity check of grounding connections.			X	
55-10-00	Horizontal Stabilizer Torque Box Assembly	Perform coin tapping test of upper skin to torque box.		X		
55-20-00	Elevator	Coin tapping test on lower and upper skin	X		X	
55-20-00	Elevator	Inspect electrical bonding connections for general condition and security of installation.	X		X	
55-20-00	Elevator	Visual inspection for general condition.	X	X	X	1Y
55-20-00	Elevator	Remove and perform accurate visual inspection. Perform NDT test if required.			X	
55-20-00	Elevator Linkages	Inspect for corrosion, cracks and evidence of damage.Check hole ovalization.		X	X	
55-30-00	Vertical Stabilizer	Accurate visual inspection for general condition.	X		X	
55-30-00	Vertical Stabilizer - Elevator Pulley Support Bracket	Visual Inspection for wear and deterioration. Check for play.			X	
55-30-00	Vertical Stabilizer - Rudder Attach Fittings	Dimensional Check Bushings for out-of-round . Visual inspection of lugs for cracks. Electrical continuity check of metal fittings to box.			X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
55-30-00	Vertical Stabilizer / Attach Fittings of horizontal stabilizer	Dimensional check of bushings for out-of-round. Visual inspection of lugs for cracks. Electrical continuity check of metal fittings to box. Dye penetrant inspection of titanium support. Accurate visual inspection of actuator support and lugs.			X	
55-40-00	Rudder Assembly	Inspect electrical bonding connections for general condition and security of installation.	X		X	
55-40-00	Rudder Assembly	Remove and perform an accurate visual inspection. Perform NDT if required. Perform a visual inspection of vertical stabilizer rudder attachments.			X	
55-40-00	Rudder Assembly and trim tab assemblies	Visual inspection for root / tip rib attachments and balance horn attachments, for nicks, dents and general condition and trim tab attachments and manual check for play.	X		X	
55-40-00	Rudder Surface	Inspect electrical bonding connections for general condition and security of installation.	X		X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 56-00-00 Windows						
56-10-00	Windshields	Inspect for scratches, cracks and delaminations (Ref. to AMM Chapter 56-10-00 Page Block 200). Inspect the windshield weather seal for erosion or degradation (cracks).	X	X	X	1Y
56-10-00	Windshields - lateral panels (aircraft S/N 1002 only)	Inspect for scratches, cracks, distorsions and clearness.	X	X	X	1Y
56-20-00	Cabin Windows	Inspect for scratches and cracks (Ref. to AMM Chapter 56-20-00 Page Block 200).	X	X	X	1Y
	Cabin Windows	Water Tightness Check - Interior Removed (Ref. to AMM Chapter 56-20-00 Page Block 200)			X	5Y

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 57-00-00 Wings						
57-00-00	Wing / Fuselage upper / lower L-shaped profiles	Perform NDT (eddy currents). If no fractures are detected, the test must be repeated after 3000 FH. If one or more cracks are detected, perform NDT (dye penetrants). If the cracks, externally detected, have a length of 0.5", the profile(s) must be replaced. Following the replacement, repeat the procedure after 6000 FH.				**2D**
57-00-00	Wing Fwd Spar	Inspection of wing-to-fuselage attachments (fasteners holes) between spar and FR6000, through doors N° 511DB (LH) and 611DB (RH).				**4D**
57-10-00	Wing	Inspect for general condition (Ref. to AMM Chapter 57-10-00 Page Block 200).	X	X	X	
57-10-00	Wing Box Leading & Trailing Edge Attachments	Inspect lugs for corrosion, when leading and trailing edges are removed.			X	
57-10-00	Wing internal structure	Inspect for corrosion				**5Y**
57-10-00	Wing Internal Structure	Endoscope inspection for corrosion.			X	
57-10-00	Wing Leading Edge Internal Ducts	Endoscope inspection for cracks.			X	
57-10-00	Wing Engine Mount Fittings	Dye penetrant inspection (Engine removal required)				**4800 FH** (Suggested at Engine OH)
57-20-00	Composite Fwd Wing Box Assembly	Coin tapping of upper/lower skin to core bond. Relevant NDT if required. Perform electrical continuity check of tip caps and upper skin.			X	
57-20-00	Fwd Wing Assy	Accurate visual inspection of box lugs for cracks and fractures. Relevant NDT if required.			X	
57-20-00	Fwd Wing Assy	Inspect grounding connections.	X		X	
57-20-00	Fwd Wing Assy	Visual inspection for general condition. (Ref. to AMM Chapter 57-20-00 Page Block 200).	X	X	X	
57-20-00	Fwd Wing Flap Hinge Fitting Supports & Lugs	Accurate visual inspection.	X			

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
57-20-00	Fwd Wing Hinge Fitting Supports & Lugs	Accurate visual inspection for corrosion. Eddy Current check of flap hinge holes. Accurate visual inspection of flap actuator attachment lugs.			X	
57-40-00	Wing Aft Spar to Bulkhead FS 6710	Endoscope inspection for cracks through the fuselage tank; then repeat the inspection after 3000 FH.				3D
57-40-00	Wing Leading Edges	Inspect A/I ducts and manifold for cracks and repair if necessary when removed.			X	
57-50-00	Fwd Wing Flaps	Visual Inspection. Check grounding connections for general condition	X	X	X	
57-50-00	Wing Aileron Attachments and Fittings	Inspect for general condition and security of installation	X		X	
57-50-00	Wing Composite Trailing Edge	Perform accurate visual inspection of attachments to wing box.			X	
57-50-00	Wing Inboard & Outboard Flap Tracks	Visual inspection. Check the grounding tracks for wear.	X	X	X	
57-50-00	Wing Inboard & Outboard Flap Tracks	Accurate visual inspection when the flaps are removed.			X	
57-50-00	Wing Outboard Flap Tracks Forward Support	Inspect for corrosion (Ref. to AMM Chapter 57-50-00 Page Block 200). For aircraft up to MSN 1110 see also SB-80-0210 and relevant AD		X	X	
57-50-00	Wing Inboard Flaps	Visual inspection. Check the grounding springs for general condition and the bonding spring strips for wear and cuts.	X	X	X	
57-50-00	Wing Inboard Flaps	Inspect the ball bearing rollers for general condition and integrity	X	X	X	
57-50-00	Wing Outboard Flaps	Visual inspection. Check the grounding springs for general condition and wear	X	X	X	
57-50-00	Wing Trailing Edge Attachment	Visual inspection and coin tapping test when removed.			X	
57-50-00	Fwd Wing Flaps	Ultrasonic inspection through transmission; Fokker Bond Test or coin tapping (Ref. to NDTM).			X	
57-50-00	Wing Inboard Flaps	Ultrasonic inspection through transmission; Fokker Bond Test or coin tapping (Ref. to NDTM).			X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
57-60-00	Aileron Hinge Fitting Support and Lugs	Accurate visual inspection of aileron hinge fitting lugs and attachment. Relevant NDT if required.			X	
57-60-00	Aileron Hinge Fitting Supports & Lugs	Eddy current inspection of aileron hinge fitting lugs and attachments. Then repeat the inspection every 3000 FH.				2D
57-60-00	Ailerons	Inspect bonding connections for general condition and security of installation.	X		X	
57-60-00	Ailerons	Coin tapping test of inner/outer skin.		X	X	
57-60-00	Ailerons	Ultrasonic inspection through transmission; Fokker Bond Test or coin tapping (Ref. to NDTM).			X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 61-00-00 Propellers						
61-10-00	Propeller Assembly Bolts	Inspect for proper lockwire.	X		X	
61-10-00	Propellers	Inspect for general condition (Ref. to AMM Chapter 61-10-00 Page Block 200).	X	X	X	**150FH or 1Y (b)**
61-10-00	Propellers	Lubricate (Ref. to AMM Chapter 61-10-00 Page Block 200).	X	X	X	**150FH or 1Y (a) (b)**
61-10-00	Propellers Blade	Blade Cleaning (*) refer to Hartzell Service Bulletin HC-SB-61-181A, latest revision				**(*)**
61-20-00	Autofeather System	Inspect for general condition and security of installation.	X	X	X	
61-20-00	Autofeather System Cam Switches	Operational test (Ref. to AMM Chapter 76-11-00 Page Block 200).	X	X	X	
61-20-00	High & Low Torque Pressure Switches	Inspect for general condition and security of installation.	X	X	X	
61-20-00	Propeller Governor	Inspect for general condition and security of installation.	X	X	X	
61-20-00	Propeller Overspeed Governor	Inspect for general condition and security of installation.	X	X	X	
61-20-00	Propeller Speed Transmitters	Inspect for general condition and security of installation.	X	X	X	
61-20-00	Synchrophaser System	Inspect for general condition and security of installation.	X	X	X	
61-20-00	Autofeather High & Low Torque Pressure Switches	Bench calibration or perform functional test (Ref. AMM 61-21-00 Page Bleck 500)				**1Y**
61-20-00	Autofeather System	Operational Test (Ref. to AMM Chapter 61-21-00). Calibrate if required.	X		X	

(a): lubricate every 6 months if annual operation is significantly less than 400 hours or if the aircraft is operated or stored under adverse atmospheric conditions

(b): for scheduling purposes, the inspection interval has a maximum 10% additional non-cumulative flight hour tolerance. For example, if the initial 150 hour inspection is overflown to 160 hours, the next inspection must be accomplished 140 flight hours from previous inspection

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 71-00-00 Power Plant						
71-00-00	Engine Maintenance Tasks	Ref. to Para 5-20-00 Page 3 Note 2 and (*).				
71-00-00	Engine Inlet Screens	Remove the screen and inspect the first stage of the compressor for F.O.D.	X		X	
71-00-00	Engines	Check Engine Performances		X	X	
71-00-00	Engines	Inspect for proper installation. Inspect for fuel and oil leaks. Inspect hoses, tubing, clamps, electrical connectors and engine accessories for proper installation.				**1Y**
71-00-00	Engine inlet screens	When the airplane is operated on unpaved runways remove the engine inlet screen and inspect the first stage of the compressor for F.O.D.	X	X	X	
71-20-00	Engine Mount Electrical Bonding Connections	Inspect for general condition and security of installation.	X	X	X	
71-20-00	Engine Mounts and Vibration Isolators	Inspect for general condition and security of installation (Ref. to AMM Chapter 71-20-00 Page Block 200).	X	X	X	**1Y**
71-20-00	Anti-vibration isolator attachment threaded holes	Perform an endoscope inspection. (Engine removal required)				**4800 FH** (Suggested at Engine OH)
71-20-00	Engine mounts	Perform dye penetrant inspection. (Engine removal required)				**4800 FH** (Suggested at Engine OH)
71-20-00	Rear titanium frame	Perform dye penetrant inspection. (Engine removal required)				**4800 FH** (Suggested at Engine OH)
71-30-00	Firewalls	Inspect for general condition and security of installation.	X	X	X	
71-50-00	Electrical Harness and Equipment	Inspect wiring, associated equipment and accessories for general condition and proper installation (Ref. to AMM Chapter 71-50-00 Page Block 1).	X	X	X	
71-70-00	Engine Drains	Inspect for general condition (Ref. to AMM Chapter 71-70-00 Page Block 1 Step D.).	X	X	X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 73-00-00 Engine Fuel & Control						
73-00-00	Engine Related Maintenance Tasks (Fuel and Control)	Ref. to Para 5-20-00 Page 3 Note 2 and (*).				
73-10-00	Fuel Purge System Filters	Clean (Ref. to AMM Chapter 73-10-00 Page Block 200).	X		X	
73-10-00	Fuel Purge Systems	Check plumbing and visually inspect the accumulator for cracks and security of installation (Ref. to AMM Chapter 73-10-00 page Block 200).	X	X	X	
73-30-00	Fuel Flow Transmitters	Inspect for security of installation and fuel leaks (Ref. to AMM Chapter 73-30-00 Page Block 200).	X		X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 74-00-00 Ignition						
74-00-00	Engine Related Maintenance Tasks (Ignition)	Refer to Para 5-20-00 Page 3 Note 2 and (*).				

Chapter 76-00-00 Engines Controls						
76-00-00	Engine Related Maintenance Tasks (Engine Controls)	Refer to Para 5-20-00 Page 3 Note 2 and (*).				
76-10-00	Engine Controls, levers, cables and power lever switches	Inspect for general condition, freedom of movement and proper operation (Ref. to AMM Chapter 76-00-00 Page Block 200).	X	X	X	1Y
76-10-00	Engine control cables	Inspect for general condition and proper installation (Ref. to AMM Chapter 76-00-00 Page Block 200).			X	
76-20-00	Power Control Cam Switches	Check for proper operation (Ref. to AMM Chapter 76-11-00 Page Block 205).	X	X	X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 77-00-00 Engine Indicating						
77-00-00	Engine Related Maintenance Tasks (Engine Indicating)	Refer to Para 5-20-00 Page 3 Note 2 and (*).				
77-10-00	Engine Gas Generator Transmitters	Inspect for general condition and security of installation.	X	X	X	
77-10-00	Torque Pressure Transducers	Inspect for general condition and security of installation.	X	X	X	

Chapter 78-00-00 Exhaust						
78-00-00	Engine Related Maintenance Tasks (Engine Exhaust)	Refer to Para 5-20-00 Page 3 Note 2 and (*).				
78-10-00	Exhaust Stacks	Inspect for general condition and security of installation (Ref. to AMM Chapter 78-10-00 Page Block 200).	X	X	X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 79-00-00 Oil						
79-00-00	Engine Related Maintenance Tasks (Engine Oil)	Refer to Para 5-20-00 Page 3 Note 2 and (*).				
79-20-00	Oil Coolers	Check coolers, hoses and the fuel heater surfarces for general condition, proper installation and absence of damage and wear. For A/C installing flexible hose P/N 80-337276-001 refer also to Piaggio Aero Ind. SB-80-0175 latest revision.	X	X	X	
79-30-00	Engine Oil System	Inspect for general condition and security of installation the following items: #1 Oil Pressure Transducers, #2 Oil Pressure Switches, #3 Oil Temperature Bulbs.	X	X	X	
79-30-00	Magnetic Chip Detector Monitoring System	Chip detection monitoring circuitry check (Ref. to AMM Chapter 79-30-00 Page Block 200).	X	X	X	1Y
79-30-00	Engine Oil Level	Visual Check(Ref. to AMM Chapter 12-10-08 Page Block 300).	X	X	X	

ATA Ch.	ITEM	REQUIREMENT	B	C	D	INTER.
Chapter 80-00-00 Starting						
80-00-00	Engine Related Maintenance Tasks (Engine Starting)	Refer to Para 5-20-00 Page 3 Note 2 and (*).				
80-00-00	Start Switch	Inspect for general condition and security of installation (Ref. to AMM Chapter 80-00-00 Page Block 200).	X	X	X	

SPECIAL SCHEDULED INSPECTIONS FOR CATEGORY II OPERATIONS

NOTE: The following listed additional special inspections for Category II operating airplanes are certification requirements and are to be assumed as "minimum required additional inspection schedule": test and periodicity shall be in accordance with the regulations in force in the country in which the airplane is registered.

ATA Ch.	ITEM	REQUIREMENT			CALIBRATION SPECS.
		INSPECTION GROUND CHECK	FLIGHT CHECK	BENCH CHECK	
22-00-00	Flight Guidance Computer: Collins - FGC3003	6M	6M	O/C	A/C MAINT MANUAL CH. 22
	Flight Guidance Panel: Collins FGP3000	6M	6M	O/C	A/C MAINT MANUAL CH. 22
	Autopilot Servos/Servo Mounts: Collins - SVO-3000	6M	6M	INSPECT. "D"	MANUFACTURER OVHL MANUAL
23-00-00	VHF Communication Transceiver: Collins - VHF-4000	6M	6M	O/C	A/C MAINT MANUAL CH. 23
27-00-00	Flight Controls	6M	6M	O/C	A/C MAINT MANUAL CH 27
34-00-00	VOR/ILS Marker Receiver: Collins - NAV4000 and NAV4500	6M	6M	O/C	A/C MAINT MANUAL CH 34
	Air Data Computer: Collins - ADC-3000	6M	6M	24M	MFR SIL FAR 43 - APPENDIX E
	Radio Altimeter Collins - ALT4000	6M	6M	24M	MANUFACTURER OVHL MANUAL
	Attitude and Heading Reference System (AHRS) AHS3000	6M	6M	O/C	A/C MAINT MANUAL CH 34
	Flux Detector Collins - FDU3000	6M	6M	O/C	A/C MAINT MANUAL CH 34
	Primary Flight Display (PFD) AFD3010	6M	6M	O/C	BRIGHTNESS CHK MFR OVHL MNL
	Display Control Panels Collins	6M	6M	O/C	A/C MAINT MANUAL CH. 23

ATA Ch.	ITEM	REQUIREMENT			CALIBRATION SPECS.
		INSPEC-TION GROUND CHECK	FLIGHT CHECK	BENCH CHECK	
34-00-00	PFD Display Collins - AFD3010 - AFD3010E	6M	6M	O/C	BRIGHTNESS CHK MFR OVHL MNL
	Static Pressure Sensing System	6M	6M	24 M SYSTEM CHK	FAR 43 APPENDIX E
	Pitot & Pitot Heating System	6M	6M	O/C	A/C MAINT MANUAL

SPECIAL SCHEDULED INSPECTIONS FOR FTI INSTALLATIONS

NOTE: The following listed additional special inspections for FTI Installation are applicable to aircraft S/N 1002, only when the relevant instrumentation is installed on board the aircraft.

ATA Chapter	Item	Requirement	Interval
22-10-00	Aileron A/P servo actuator (instrumented)	Check aileron A/P cable pulleys, segment 20, for pulley surface wear.	25 FH
27-00-00	FTI - Flight Controls	Check mechanical FTI installation for junction loosening.	200 FH
27-30-00	FTI - Elevator controls	Check mechanical FTI installation for junction loosening.	200 FH
32-50-00	FTI - Steering potentiometer	Inspect for security of installation.	200 FH
34-10-00	FTI - Static system	Leak test on static pressure line concerned by FTI installation.	200 FH
34-10-00	FTI - Pitot system	Leak test on pitot pressure line concerned by FTI installation.	200 FH
76-10-00	FTI - Power Control Potentiometers	Visual check of installation. Check for wear of the cable. Visually ensure that the cable is tensioned. Check for proper installation.	25 FH

UNSCHEDULED MAINTENANCE

A. FLIGHT TEST.
Generally, only the "D" check requires a flight test after its completion. This doesn't exclude that particular not scheduled Maintenance tasks might require a flight test. A flight test is anyway suggested when the following conditions apply:

(a) both engines replacement,

(b) both propellers replacement,

(c) both fuel control replacement,

(d) airframe major repair or replacement of primary components (Ref. to Ch. 51-00-00) (i.e. Wing FWD Wing, Tail, Empennages).

B. UNSCHEDULED MAINTENANCE.
The unscheduled Maintenance must be performed when the following conditions apply:

Ref.	Condition	Requirement
00-00-00	Operations on unpaved runways	After each landing or landing following a take off from unpaved runway, the following inspections are required: Walk around check (Ref. to Fig 4-1 Section 4 of the P.O.H.) with particular attention for absence of damage of: – Propeller blades – Forward wing – Main wing – Empennage – Control surface/ Antennas – External lights/ Landing gears – Tires – Gravel protection kit.
21-51-00	Freon air conditioning system line or hose replacement	A leak check is required.
24-30-00	Starter Generator Cable Repositioning	Perform "Generator Power Cable Routing Inspection" after any maintenance activity that may require the Power Cable repositioning.
29-10-00	Hydraulic Package Motor bearing replacement	Inspect the anti vibration isolators
29-10-00	Hydraulic Package dry running	Inspect for general condition and painting discoloration, the unit must be checked, before any further operation. (Ref. to Vickers Component Maintenance Manual).

Ref.	Condition	Requirement
31-10-00	MFD failure if occurred in a condition (i.e.: take off, balked landing, MAX PWR climb) where an engine overtorque or overtemperature can be suspected following the temporary unavailable engine indication	Engine checks per P&WC EMM Chapter 72-00-00 , UNSCHEDULED INSPECTION paragraph, OVERTEMPERAURE and OVERTORQUE subparagraphs.
32-40-00	Main Gear Wheel / Tire replacement	Inspect wheel bearings for corrosion , evidence of damage. Clean and repack. (Ref. to AMM Chapter 32-40-00 Page Block 200). Inspect the brakes and brakes rotors for damage and cracks; inspect the brakes for leakage / overheat. Check the brake free play.
32-40-00	Nose Gear Wheel / Tire replacement	Inspect wheel bearings for corrosion , evidence of damage. Clean and repack (Ref. to AMM Chapter 32-41-00 Page Block 200).
32-40-00	Abnormal braking condition reported by fly crew	Brake rods assy inspection as per "Brake rods system" inspection, 32-42-00.
53-10-00	Radome nose/cone replacement	Perform the Radome nose/cone - Leak Check (Ref. to AMM Chapter 53-10-00 Page Block 200).
53-10-00	NLG Removal for overhaul	– Inspect NLG Mounts bushings for general condition and play tolerances (Ref. to 32-00-00 page block 500). – Eddy current inspection around bushings.
53-10-00	NLG Actuator and Drag Brace for overhaul	– Eddy current inspection of attachments
53-60-00	MLG Removal for overhaul	– Inspect bushings for general Condition and play tolerances (Ref. to 32-00-00 page block 500). – Eddy current inspection around MLG Mounts bushings and at the radii. – Eddy current inspection at the radii of the MLG Mount Guides
57-10-00	Engine Removal	– Detailed visual inspection of wing engine mount fittings
71-00-00	Replacement of Starter/ Generator(s)	Inspect the engine gear shaft splines for wear
71-00-00	Engine Removal	Inspect Engine vibration isolators in accordance with CMM (ref to CMM Barry Control chapter 71-20-03, page block 500)
71-20-00	Engine Removal	Perform detailed visual inspection of the antivibration isolator attachment threaded holes.
71-20-00	Engine Removal	Perform detailed visual inspection of engine mounts and rear titanium frame.

Ref.	Condition	Requirement
79-20-00	Engine Oil contamination	Oil filter must be replaced (Ref. to P&WC EMM Chapter 79-20-00).

C. HARD / OVERWEIGHT LANDING

Ref.	Requirement
27-00-00	Inspect flight controls for freedom of movement
28-11-00	Inspect the connections among the Wing Tank and Collector Tanks. Check for leaks and security of installation.
28-11-00	Inspect Collector Tank Joint for leaks and security of installation.
32-20-00	Inspect Main Landing Gear and perform operational test.
32-20-00	Inspect Nose Landing Gear and perform operational test.
53-00-00	Inspect Fuselage for damage.
55-00-00	Inspect Stabilizers for damage.
57-00-00	Inspect Wing and Fwd Wing for damage.
61-00-00	Inspect propellers (Ref. To Hartzell CMM)
71-00-00	Inspect Engines (Ref. to P&WC EMM)

D. SEVERE TURBULENCE OR VIOLENT FLIGHT MANEUVERS

Ref.	Requirement
27-00-00	Inspect flight controls for freedom of movement.
53-00-00	Inspect Fuselage for damage. Check Battery electrolyte level. Check Battery compartment area for spilled electrolyte.
55-00-00	Inspect Stabilizers for general condition and security of installation.
57-00-00	Inspect Wing and Fwd Wing for damage.
61-00-00	Inspect propellers (Ref. To Hartzell CMM)

E. BIRD STRIKE

Ref.	Requirement
57-00-00	Inspect Wing and Fwd Wing for damage.
53-00-00	Inspect Nacelles for damage.
55-00-00	Inspect Stabilizers for damage.
56-10-00	Inspect Windshields for damage.
56-20-00	Inspect Cabin Windows for damage.
61-00-00	Inspect Propellers (Ref. to Hartzell CMM).

F. LIGHTNING STRIKE

Ref.	Requirement
00-00-00	Inspect the exterior of the aircraft. Evidence of strike usually appears as a burned hole or a series of burned holes in metallic surfaces. For composite part surfaces, refer to Chapter 51-11-00 of the current issue of the Airplane Maintenance Manual.
00-00-00	Inspect the Bonding Straps, connection of flight control surfaces, flaps, engines, radome for damage.
23-60-00	Inspect the Static Discharge Wicks for damage, replace if required.
24-00-00	Inspect Lighting Protection Varistors for damage.
61-20-00	Inspect Propellers (Ref. to Hartzell CMM).
61-20-00	Overspeed Governor Woodward P/N 210962 (refer to AMM chapter 05-10-00)
72-00-00	Inspect Engines (Ref. to P&WC EMM Chapter 72-00-00)

G. ENGINE FIRE EXTINGUISHER PERCUSSION

Ref.	Requirement
72-00-00	Inspect Engines (Ref. to P&WC EMM Chapter 72-00-00)

H. EXTENDED OPERATION IN DUST AIR

Ref.	Requirement
12-20-00	Wash the airplane after the flight. (Ref. to AMM Chapter 12-20-00)
34-11-00	Check pitot/static ports for obstruction.
71-00-00	Perform engine check (Ref. to P&WC EMM)
71-30-00	Perform Engine Compressor wash. Water rinse if not otherwise necessary (Ref. to P&WC EMM)

I. EXTENDED OPERATION IN SALT AIR

Ref.	Requirement
12-20-00	Wash the airplane after the last flight of the day (water rinse). (Ref. to AMM Chapter 12-20-00)
72-00-00	Perform engine compressor wash (Ref. to P&WC EMM)

J. EXTENDED OPERATION IN RAIN

Ref.	Requirement
56-10-00	Apply Rain Repellant (Refer to AMM Chapter 91), every 25 FH or 10 days, whichever occurs first. CAUTION: Make sure that the repellant is applied as per the proper suplier instructions. Damages may occur if the liquid reaches the windshield rubber seal.