Section 3.2 - Typical Maintenance Tasks

Time limits/Maintenance Checks	Parking and Mooring (cont'd)
100 hour check (general aviation Air System)	Position Air System in Maintenance dock
Assist in carrying out a scheduled Maintenance check IAW AMM	Secure rotor blades
Review Air System Maintenance Log for correct completion	Placards and Markings
Review records for compliance with Airworthiness directives	Check Air System for correct placards
Review records for compliance with component life limits	Check Air System for correct markings
Procedure for inspection following heavy landing	Servicing
Procedure for inspection following lightning strike	Refuel Air System
Dimensions/Areas	Defuel Air System
Locate component(s) by zone/station number	Carry out tank to tank fuel transfer
Perform symmetry check	Check/adjust tyre pressure(s)
Lifting and Shoring	Check/replenish oil level(s)
Assist in:	Check/replenish hydraulic fluid level(s)
Jack Air System nose or tail wheel	Check/replenish accumulator pressure(s)
Jack complete Air System	Charge pneumatic system
Sling or trestle major component	Grease Air System
Levelling/Weighing	Connect ground power
Level Air System	Service toilet/water system
Weigh Air System	Perform pre-flight/daily check
Prepare weight and balance amendment	Vibration and Noise Analysis
Check Air System against equipment list	Analyse helicopter vibration problem
Towing and Taxiing	Analyse noise spectrum
Prepare Air System for towing	Analyse engine vibration
Tow Air System	Air Conditioning
Be part of Air System towing team	Replace combustion heater
Parking and Mooring	Replace flow control valve
Tie down Air System	Replace outflow valve
Park, secure and cover Air System	Replace safety valve

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Air Conditioning (cont'd)
Replace vapour cycle unit
Replace air cycle unit
Replace cabin blower
Replace heat exchanger
Replace pressurisation controller
Clean outflow valves
Check operation of air conditioning/heating system
Check operation of pressurisation system
Troubleshoot faulty system
Autoflight
Install servos
Rig bridle cables
Replace controller
Replace amplifier
Replacement of autoflight LRUs (fly-by-wire Air System)
Check operation of auto-pilot
Check operation of auto-throttle/auto-thrust
Check operation of yaw damper
Perform auto-pilot gain adjustments
Check auto-land system
Check flight management systems
Check stability augmentation system
Troubleshoot faulty system
Communications
Replace VHF comms unit
Replace HF comms unit
Replace existing antenna
Replace static discharge wicks
Perform antenna VSWR check

Communications (cont'd)
Check operation of radios
Perform Selcal operational check
Perform operational check of passenger address system
Functionally check audio integrating system
Repair co-axial cable
Troubleshoot faulty system
Electrical Power
Charge lead/acid battery
Charge NiCad battery
Check battery capacity
Deep-cycle NiCad battery
Replace integrated drive/generator/alternator
Replace switches
Replace circuit breakers
Adjust voltage regulator
Change voltage regulator
Amend electrical load analysis report
Repair/replace electrical feeder cable
Functional check of integrated drive/generator/alternator
Functional check of voltage regulator
Troubleshoot faulty system
Equipment/Furnishings
Replace carpets
Replace crew seats
Replace passenger seats
Check inertia reels
Check seats/belts for security
Check ELT for compliance with regulations
Check emergency equipment

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Equipment/Furnishings (cont'd)	Flight Controls (cont'd)
Repair toilet waste container	Rig primary flight controls
Repair upholstery	Adjust trim tab
Change cabin configuration	Adjust control cable tension
Replace cargo loading system actuator	Check control range & sense direction of movement
Test cargo loading system	Check for correct assembly and locking
Replace escape slides/ropes	Functional test of primary flight controls
Fire Protection	Functional test of flap system
Check fire bottle contents	Operational test of the side stick assembly
Check/test operation of fire/smoke detection/warning system	Operational check of the trimmable horizontal stabiliser
Check cabin fire extinguisher contents	Trimmable horizontal stabiliser system wear check
Install new fire bottle	Troubleshoot faulty system
Replace fire bottle squib	Fuel
Inspect engine fire wire detection system(s)	Water drain system (operation)
Troubleshoot faulty system	Replace fuel selector
Flight Controls	Replace fuel tank cells
Inspect primary flight controls & related components IAW AMM	Replace/test fuel control valves
Inspect extending/retracting flaps & slats	Replace magnetic fuel level indicators
Replace horizontal stabiliser	Replace water drain valve
Replace spoiler/lift dumper	Check/calculate fuel contents manually
Replace elevator	Replace filter(s)
Deactivation/reactivation of aileron servo control	Flow check system
Replace aileron	Check calibration of fuel quantity gauges
Replace rudder	Check operation feed/selectors
Replace/adjust trim tabs	Check operation of fuel dump/jettison system
Install control cable and fittings	Fuel transfer between tanks
Replace slats	Pressure defuel
Replace powered flying control unit	Pressure refuel (manual control)
Replace flaps	Re/De-activation of fuel valves (transfer, defuel, refuel, x-feed)
Replace flap actuator	Troubleshoot faulty system

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Hydraulics	Indicating/Recording Systems (cont'd)
Replace engine driven pump	Replace master caution unit
Check/replace case drain filter	Perform flight data recorder data retrieval
Replace standby pump	Implement ESD procedures
Replace hydraulic motor pump/generator	Inspect for HIRF requirements
Replace accumulator	Start/stop electronic instrument system procedure
Check operation of shut-off valve	BITE test of central fault display interface unit (CFDIU)
Check filters/clog indicators	Ground scanning of central warning system
Check indicating systems	Troubleshoot faulty system
De/Pressurisation of hydraulic system	Landing Gear
Power transfer unit operation	Build up wheel
Troubleshoot faulty system	Replace main wheel
Ice and Rain Protection	Replace nose wheel
Replace pump	Replace steering actuator
Replace timer	Replace shimmy damper
Inspect/repair propellor de-ice boot	Rig nose wheel steering
Test propellor de-ice system	Functional test of nose wheel steering system
Inspect/test wing leading edge de-icer boot	Replace shock strut seals
Replace anti-ice/de-ice valve	Replace truck tilt actuator
Install wiper motor	Servicing of shock strut
Check operation of system(s)	Replace brake unit
Operational check of pitot probe ice-protection	Replace brake control valve
Operational check of TAT ice protection	Bleed brakes
Operational test of wing ice protection system	Replace broken fan
Operational test of engine intake ice protection (engine running)	Test anti-skid unit
Troubleshoot faulty system	Change bungees
Indicating/Recording Systems	Adjust micro switches/sensors
Replace flight data recorder	Charge struts with oil and air
Replace cockpit voice recorder	Test outbrake system
Replace clock	Replace rotorcraft skids

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Landing Gear (cont'd)	Navigati
Replace rotorcraft skid shoes	Complete
Check/test emergency blowdown	Update fl
Troubleshoot faulty system	Check ca
Lights	Check ca
Repair/replace rotating beacon	Check m
Repair/replace landing lights	Compass
Repair/replace navigation lights	Check Sa
Repair/replace interior lights	Check G
Repair/replace ice inspection lights	Test Air S
Repair/replace emergency lighting system	Troublesl
Perform emergency lighting system checks	Pneuma
Troubleshoot faulty system	Replace
Navigation	Replace
Calibrate magnetic direction indicator	Replace
Replace airspeed indicator	Replace
Replace altimeter	Recharge
Replace air data computer	Repair/re
Replace VOR unit	Adjust re
Replace ADI	Check fo
Replace HIS	Troublesl
Check pitot static system for leaks	Vacuum
Check operation of directional gyro	Inspect v
Functional check of weather RADAR	Replace
Functional check of doppler system	Check/re
Functional check of TCAS	Adjust re
Functional check of DME system	Recharge
Functional check of ATC transponder	Troublesl
Functional check of flight director system	Central I
Functional check of inertial navigation system	Retrieve

Navigation (cont'd)
Complete quadrantal error correction of ADF system
Update flight management system database
Check calibration of pitot static instruments
Check calibration of pressure altitude reporting system
Check marker systems
Compass replacement direct/indirect
Check Satcom
Check GPS
Test Air System vibration monitor (AVM)
Troubleshoot faulty system
Pneumatic Systems
Replace filter
Replace air shut off valve
Replace pressure regulating valve
Replace compressor
Recharge desiccator
Repair/replace pipes and hoses
Adjust regulator
Check for leaks
Troubleshoot faulty system
Vacuum Systems
Inspect vacuum system IAW AMM
Replace vacuum pump
Check/replace filters
Adjust regulator
Recharge desiccator
Troubleshoot faulty system
Central Maintenance System
Retrieve data from Central Maintenance Unit

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Central Maintenance System(cont'd)
Replace Central Maintenance Unit
Perform BITE check
Troubleshoot faulty system
Airborne Auxiliary Power
Install APU
Inspect hot section
Troubleshoot faulty system
Structures
Sheet metal repair
Composite material repair
Treat corrosion
Apply protective treatment
Doors
Inspect passenger door IAW AMM
Rig/adjust locking mechanism
Check operation of emergency exits
Test door warning system
Remove/install passenger door IAW AMM
Inspect cargo door IAW AMM
Troubleshoot faulty system
Windows
Replace windshield
Replace direct vision window
Replace cabin window
Repair transparency
Wings
Skin repair
Replace tip
Replace rib

Wings (cont'd)
Replace integral fuel tank panel
Check incidence/rig
Propeller
Assemble prop after transportation
Replace propellor
Replace governor
Adjust governor
Perform static functional checks
Check operation during ground run
Check track
Check setting of micro switches
Assess/dress out damage IAW AMM
Dynamically balance prop
Troubleshoot faulty system
Main Rotors
Install rotor assembly
Replace blades
Replace damper assembly
Check static balance
Check track
Check dynamic balance
Troubleshoot faulty system
Rotor Drive
Replace mast
Replace drive coupling
Replace clutch/freewheel unit
Replace drive belt
Install main gearbox
Overhaul main gearbox

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Rotor Drive (cont'd)
Check gearbox chip detectors
Tail Rotors
Install rotor assembly
Replace blades
Troubleshoot faulty system
Tail Rotor Drive
Replace gearbox
Replace universal joints
Overhaul bevel gearbox
Install drive assembly
Check chip detectors
Check/install bearings and hangers
Check/service/install flexible couplings
Check alignment of drive shafts
Install and rig drive shafts
Rotorcraft Flight Controls
Install swashplate
Install mixing unit/box
Adjust pitch links
Rig collective system
Rig cyclic system
Rig anti-torque system
Check controls for assembly and locking
Check controls for operation and sense
Troubleshoot faulty system
Power Plant
Build up ECU
Replace engine
Repair cooling baffles

Power Plant (cont'd)
Repair cowling
Adjust cowl flaps
Repair faulty wiring
Assist in dry monitoring check
Assist in wet monitoring check
Assist in engine start (manual mode)
Conduct Leak checks
Troubleshoot faulty system
Piston Engines
Remove/install reduction gear
Check crankshaft run-out
Check compression
Extract broken stud
Install helicoil
Perform ground run
Establish/check reference RPM
Troubleshoot faulty system
Turbine Engines
Replace module
Replace fan blade
Hot section inspection/boroscope check
Carry out engine/compressor wash
Carry out engine dry cycle
Engine ground run
Establish reference power
Trend monitoring/gas path analysis
Troubleshoot faulty system
Fuel and Control - Piston
Replace engine driven pump

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Fuel and Control - Piston (cont'd)
Adjust automatic mixture control (AMC)
Adjust automatic boost control (ABC)
Install carburettor/injector
Adjust carburettor/injector
Clean injector nozzles
Replace primer line
Check carburettor float setting
Troubleshoot faulty system
Fuel and Control - Turbine
Replace FCU
Replace engine electronic control unit (FADEC)
Replace fuel metering unit (FADEC)
Replace engine driven pump
Clean/test fuel nozzles
Clean/replace filters
Adjust FCU
Functional test of FADEC
Troubleshoot faulty system
Ignition Systems - Piston
Change magneto
Change ignition vibrator
Change plugs
Test plugs
Check HT leads
Install new HT leads
Check timing
Check system bonding
Troubleshoot faulty system

Ignition Systems - Turbine
Perform functional test of ignition system
Check glow plugs/ignitors
Check HT leads
Check ignition unit
Replace ignition unit
Troubleshoot faulty system
Engine Controls
Functional check of engine indicating systems
Replace engine instrument(s)
Replace oil temperature bulb
Replace thermocouple(s)
Check calibration
Troubleshoot faulty system
Exhaust – Piston
Replace exhaust gasket
Inspect welded repair
Pressure check cabin heater muff
Troubleshoot faulty system
Exhaust - Turbine
Change jet pipe
Change shroud assembly
Install trimmers
Inspect/replace thrust reverser
Replace thrust reverser component
Deactivate/reactivate thrust reverser
Operational test of thrust reverser system
Oil
Change oil
Check filter(s)

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Oil (cont'd)
Adjust pressure relief valve
Replace oil tank
Replace oil pump
Replace oil cooler
Replace firewall shut-off valve
Perform oil dilution test
Troubleshoot faulty system
Starting
Replace starter
Replace start relay
Replace start control valve
Check cranking speed
Troubleshoot faulty system
Turbocharger – Piston
Replace power recovery turbine (PRT)
Replace turbo-blower
Replace heat shields
Replace waste gate
Adjust density controller
Engine Water Injection
Replace water/methanol pump
Flow check water/methanol system
Adjust water/methanol control unit
Check fluid for quality
Troubleshoot faulty system
Accessory Gearboxes
Replace gearbox
Replace drive shaft
Check/inspect magnetic chip detector

Auxiliary Power Unit
Remove/install APU
Remove/install inlet guide-vane actuator
Operational test of APU
Troubleshoot faulty system

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