

MARITIME HELICOPTERS

DCH-6 MAINTENANCE MANUAL

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 Revision: Original
 Issue Date: 05/01/20

CHECK: **B 0250 – BASIC INSPECTION**
 FREQUENCY: Every 250 Hours
 NOTE:

MAINTENANCE ACTION		REF	MECH INITIALS	RII INITIALS
B 0250.6 23 - COMMUNICATIONS				
6.1	Pilot and Co-pilots head sets for condition and security.			
6.2	Nose cap lightning rod for condition and security.			
B 0250.7 24 – ELECTRICAL POWER				
7.1	Vent jar for condition and security, pad properly saturated, hoses for condition and connections for security.			
7.2	Avionics Start Battery for condition and security. Effectivity: Mod 6/2315			
B 0250.8 26 – FIRE PROTECTION - LH				
8.1	Fire detection thermal units and wire loops for condition and security.			
8.2	Engine fire extinguisher bottle for condition and security, correct pressure, pipes for condition and security, electrical wiring for condition and connectors for security.			
B 0250.9 26 – FIRE PROTECTION - RH				
9.1	Fire detection thermal units and wire loops for condition and security.			
9.2	Engine fire extinguisher bottle for condition and security, correct pressure, pipes for condition and security, electrical wiring for condition and connectors for security.			
B 0250.10 27 – FLIGHT CONTROLS - LH				
10.1	Flap actuator for condition and security of mounting and leakage, selector valve for condition, security of mounting and leakage.			
10.2	Selector pulleys properly secured to spindle.			
10.3	Drip trays for condition, security and fluid content. Remove, dry out and install pads as required.			
B 0250.11 27 – FLIGHT CONTROLS - RH				
11.1	Flap actuator for condition and security of mounting and leakage, selector valve for condition, security of mounting and leakage.			
11.2	Selector pulleys properly secured to spindle.			
11.3	Drip trays for condition, security and fluid content. Remove, dry out and install pads as required.			

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NOTE:

MAINTENANCE ACTION		REF	MECH INITIALS	RII INITIALS
B 0250.12 28 – FUEL - LH				
12.1	Remove 74 micron element, clean and install. Note: If excessive foreign matter is found in fuel strainer, drain and flush system and inspect motive line check valve strainers for contamination.			
12.2	Replace 10 micron filter element as required.			
12.3	Strainer body for condition and security of attachment bolts, security of drain valve.			
12.4	Drain fuel from wing tank and check samples for contamination. Note: If excessive foreign matter is found in fuel strainer, drain and flush system and inspect motive line check valve strainers for contamination.			
12.4.1	Remove fuel filter, if fitted (Mod 6/1398), clean as required and install.			
12.4.2	Perform leak check.			
B 0250.13 28 – FUEL - RH				
13.1	Remove 74-micron element, clean and install. Note: If excessive foreign matter is found in fuel strainer, drain and flush system and inspect motive line check valve strainers for contamination.			
13.2	Replace 10-micron filter element as required.			
13.3	Strainer body for condition and security of attachment bolts, security of drain valve.			
13.4	Drain fuel from wing tank and check samples for contamination. Note: If contamination is evident, remove panel at top of tank and inspect interior of tank. Drain and flush as necessary and clean strainer at end of fuel outlet pipe as required. When install panel, seal in accordance with Maintenance Manual.			
13.4.1	Remove fuel filter, if fitted (Mod 6/1398), clean as required and install.			
13.4.2	Perform leak check.			
B 0250.14 29 – HYDRAULIC POWER				
14.1	Hydraulic reservoir filler neck for condition and contamination, fluid leakage, end of vent clear of power package tray. Dip stick for seal deterioration.			
B 0250.15 30 – ICE AND RAIN PROTECTION				
15.1	Propeller deicing boots for cuts, tears, burns, deterioration and proper adhesion.			
15.2	Propeller deicing brush block and back plate slip ring for condition and security.			

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MAINTENANCE ACTION		REF	MECH INITIALS	RII INITIALS
B 0250.16 32 – LANDING GEAR NOSE				
16.1	Nose gear shock strut for correct extension as given on date plate. Fork retaining nut properly secured.			
16.2	Nosewheel steering actuator for condition and leakage, hydraulic pipes and input swivel lever for condition, connections for security and leakage.			
16.3	Steering cables where visible, for condition, corrosion, kinks, flattening, proper attachment and security; pulleys for condition, freedom of operation and security.			
16.4	Pulleys for condition, freedom of operation and security, turnbuckles for security.			
16.5	Perform a detail visual inspection of cable terminals as follows;			
16.5.1	Remove and discard the lockwire from the cable terminals. Note: If safety clip is installed, do not remove the safety clip.			
16.5.2	Do a detailed visual inspection of cable terminals excluding the hexagonal wrench flat area) for signs of corrosion pits.			
16.5.3	Do a detailed visual inspection of cable terminals for signs of cracks in all exposed parts of the terminals.			
16.5.4	If corrosion pits and/or cracks are found on any cable terminal, remove the applicable cable assembly and replace with new cable assembly.			
16.5.5	In a new cable assembly is install or if the rigging was disturbed when the lockwire was removed in step 15.5.1, rig the control system.			
16.5.6	If the lockwire was removed, secure the cable terminals with lockwire. Note: Refer to Service bulletin No. 6/453.			
16.6	Steering actuator linkage for condition, corrosion and security, fouling of linkage on shock strut cylinder body.			
16.7	Remove nose wheel and clean as required.			
16.8	Inspect as follows;			
16.8.1	Wheel for abrasions, cracks, chipped rims.			
16.8.2	Bearings for signs of wear, corrosion, fretting and blueing; lubricate.			
16.8.3	Bushings for signs of wear.			
16.8.4	Seals for distortion, fit, deterioration and security.			
16.9	Install nose wheel assembly.			

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NOTE:

MAINTENANCE ACTION	REF	MECH INITIALS	RII INITIALS
B 0250.17 32 – LANDING GEAR MAIN			
17.1 Remove and clean main wheels.			
17.2 Inspect as follows;			
17.2.1 Wheels for abrasions, cracks, chipped rims, brake drive signs of wear.			
17.2.2 Wheel bearings for signs for wear corrosion, fretting and blueing.			
17.2.3 Brake housing for evidence of overheating.			
17.2.4 Brake discs for scoring, distortion, evidence of overheating.			
17.2.5 Brake disk guides (when installed) for condition and security.			
17.2.5 17.2.6 Brake linings for wear and within limits.			
17.3 Reinstall main wheels.			
B 0250.18 52 – DOORS			
18.1 Cabin escape hatch door release mechanisms for proper operation, seals for deterioration and security.			
B 0250.19 53 – FUSELAGE			
19.1 Cabin floor panes for condition, delamination, corrosion and security. Clean as required.			
19.2 Cargo tie-down rings for condition and security. Note: if cabin floor panes are severely damaged, removed panels and inspect supporting structure for damage, buckling and cracks.			

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MAINTENANCE ACTION		REF	MECH INITIALS	RII INITIALS
B 0250.24 61- PROPELLERS - RH				
24.1	Propeller blades for nicks and cracks. Blend nicks out from leading edge. Note: Refer to A.D. 72-08-04 and 72-14-01 if applicable.			
B 0250.25 72 – ENGINE - LH				
25.1	Exhaust duct for condition, deflector vanes for cracks, erosion and security.			
B 0250.26 72 – ENGINE - RH				
26.1	Exhaust duct for condition, deflector vanes for cracks, erosion and security.			
B 0250.27 80 – STARTING - LH				
27.1	Remove spark igniters for operational test.			
27.2	Clean as required and install serviceable spark igniters.			
27.3	Install spark igniters.			
B 0250.28 80 – STARTING - RH				
28.1	Remove spark igniters for operational test.			
28.2	Clean as required and install serviceable spark igniters.			
28.3	Install spark igniters.			
B 0250.29 OPERATIONAL CHECKS				
29.1	Perform the following Operational Checks; NOTE Electrical power for the following tests is obtained by connecting a ground power source or by running the engines, whichever is more convenient			
29.2	Lift Detector Vanes (WINGS) for freedom of movement, condition, corrosion and security. Function test (Power on).			
29.3	All communications and navigation systems.			
29.4	Weather radar.			
29.5	Wing flaps in normal and emergency.			
29.6	Fuel booster pumps, check for evidence of rough running.			
29.7	Fuel system strainers for leak check under system pressure after installation.			

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MAINTENANCE ACTION		REF	MECH INITIALS	RII INITIALS
29.8	Flight controls, including trim tabs for full and free movement of all controls.	27-16-1		
29.9	Stall warning light and horn system (Pre Mod and Mod 6/2028) by actuating detecting vane.	27-15a-2 27-15b-2		
29.10	Master warning and caution indication and control (Mod 6/2028) function test. (Power on).	31-13-2		
B 0250.30 POST INSPECTION				
30.1	Inspect for operation and leaks.			
30.2	Replace or close all applicable trim panels, covers, access and inspection doors/covers as necessary.			
30.3	Clean aircraft and engine once maintenance is completed.			
30.4	Perform Functional Check Flight if required per DHC-6-400 Maintenance Manual or AFM as appropriate.			
30.5	Make an entry in the appropriate logbook (refer to the following page for wording of approval for return to service).			

CHECK: C 0500 – BASIC INSPECTION
FREQUENCY: Every 500 Hours
NOTE:

MAINTENANCE ACTION		REF	MECH INITIALS	RII INITIALS
6.10	AFCS (autopilot) system, inspect as follows; Effectivity: Mod 6/2302, SOO 6221			
6.10.1	Pilot and co-pilot Go Around (G/A) and Touch Control Switches for security and clean as required. Function test.			
6.10.2	Pilot and Co-Pilot; AP Disconnect (AP DISC) Switch for security and clean as required			
6.10.3	Function Test			
6.10.4	Autopilot aileron servo for condition and security.			
6.10.5	Autopilot pitch trim servo actuator for condition and security. Clean as required.			
6.10.6	Autopilot pitch trim servo system pitch trim switch. Inspect for condition and security. Clean as required.			
C 0500.7 23 – COMMUNICATIONS				
7.1	Audio system control units and power panels for condition and security of mounting. Flight compartment speakers and speaker panel assembly for condition and security.			
7.2	VHF upper aft antenna for condition and security, control and indicators for condition, wiring and connector for security. Clean as required. Effectivity: Mod 6/2003			
7.3	VHF forward antenna for condition and security, control and indicators for condition, wiring and connector for security. Clean as required. Effectivity: Mod 6/2003			
7.4	VHF lower aft antenna for condition and security, control and indicators for condition, wiring and connector for security. Clean as required. Effectivity: Mod 6/2003, SOO 6231			
7.5	VHF-FM antenna for condition and security, control and indicators for condition, wiring and connector for security. Clean as required. Effectivity: Mod SOO 6296			
7.6	VHF and VHF standby antennas for loose connections, fiberglass cover for cracks and deterioration, wire whip for bending or misalignment. Effectivity: Pre Mod 6/2003			
7.7	HF mast for cracks and security, wire for proper tension and loose connections, cable covering for cracks and deterioration. Lead-in sleeves for cracks and security. Insulators for condition, connections for security. Clean as required.			
7.8	HF antenna tension unit at vertical stabilizer tip for cracks, corrosion and security.			

CHECK: C 0500 – BASIC INSPECTION
FREQUENCY: Every 500 Hours
NOTE:

MAINTENANCE ACTION		REF	MECH INITIALS	RII INITIALS
7.9	Power distribution and generator control box for condition and security; terminals, connectors and relays for condition and security, signs of overheat, arcing, torque of large terminal posts. Clean as required. Current Limiters (Mod 6/1651) for condition and serviceability.			
7.10	HF antenna tension unit at vertical stabilizer tip for cracks, corrosion and security			
7.11	Static discharge wicks for condition and security, minimum length of one-inch wick extension from sheath.			
7.12	GPS/IRIDIUM/WiFi antenna for condition, security and corrosion, condition of external fillet seal, condition of coaxial cables and connectors and security of attachment of coaxial cables.			
7.13	Diodes CR 141 thru CR 146 – check diodes. Replace if required.			
7.14	Static inverters for condition and security, mounting installation for condition and security. Effectivity: Pre Mod 6/2028 Note: Refer to Service Bulletin No. 6/263 and A.D. 71-21-07 and 75-34-15			
7.15	All aircraft accessible wiring and connectors for condition and security.			
7.16	Check condition and security of cables at STA 111 cabin floor cut-out. Refer to PSM 1-64-2 Chp 24-30-00. Effectivity: SOO 6371			
C 0500.8 25 - EQUIPMENT/FURNISHINGS				
8.1	Inspect pilots and co-pilots seats as follows;			
8.1.1	Seat structure and seat pan for condition and security, freedom of movement.			
8.1.2	Seat rails for condition and security of stops.			
8.1.3	Chock cords for condition and security.			
8.1.4	Safety harness for condition and security, quick release for proper operation. Clean as required.			
8.1.5	Inertia reel for condition and security, proper operation.			
8.1.6	Portable ELT mounting provision for security, condition, proper operation and retention. Install safety wire as required. Effectivity: SOO 6270			

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FREQUENCY: Every 500 Hours
NOTE:

MAINTENANCE ACTION		REF	MECH INITIALS	RII INITIALS
8.2	Cabin side rail and floor for condition and security. Note: Refer to Service Bulletin No. 6/302 and A.D. 74-08-11			
8.3	Baggage restraints (if installed) for condition and security. Slimline commissary (if installed) for condition and obstruction. Effectivity: SOO 6175			
C 0500.9 27 – FLIGHT CONTROLS				
9.1	Trim cables for condition, graying, corrosion, flattening, proper attachment and security.			
9.2	Control column boot for condition and security.			
9.3	Nylon cable jacket for condition, cracking and necking down in diameter.			
9.4	Pulleys (bulkhead and elevator torque tube) for condition and freedom of movement, pulley brackets for condition and security.			
9.5	Lubricate pulley bracket bushings at elevator torque tube.			
9.6	Rudder and elevator trim screw jacks for condition of cable drum grooves, freedom of operation and security. Lubricate.			
9.7	Flap selector valve and follow-up cables for condition, corrosion, fraying, flattening and security of attachment, turnbuckles for security, pulleys for condition and freedom of operation.			
9.8	Do a detailed visual inspection of cable terminals as follows;			
9.8.1	Remove and discard the lockwire from the cable terminals. Note: If safety clip is installed, do not remove the safety clip.			
9.8.2	Cable terminals (excluding the hexagonal wrench flat area) for signs of corrosion pits.			
9.8.3	Cable terminals for signs of cracks in all exposed parts of the terminals.			
9.8.4	If corrosion pits and/or cracks are found on any cable terminal, remove and applicable cable assembly and replace with new cable assembly.			
9.8.5	If a new cable assembly is installed or if the rigging was disturbed when the lockwire was removed in step 9.7.1, rig the control system.			
9.8.6	If the lockwire was removed, secure the cable terminals with lockwire.			