Mu-8 MTB-1 HELICOPTER

MAINTENANCE SCHEDULE

PART II.
HELICOPTER EQUIPMENT AND
AVIONICS

RECORD OF REVISIONS

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1. GENERAL

1.1. The present Maintenance schedule (MS) is the basic document, determining the scope and schedule of Ми-8 MTB-1 helicopters maintenance operations.

The timely and high-quality execution of maintenance operations ensures the maintaining of specified level of serviceability and readiness of the helicopter for flight.

1.2. The maintenance schedule consists of two parts:

Part I – "Helicopter frame and power unit"

Part II – "Helicopter equipment and avionics"

- 1.3. The maintenance schedule includes the following types of maintenance to be carried out on the helicopter:
 - line maintenance;
 - periodic maintenance;
 - maintenance during helicopter storage;
 - seasonal maintenance;
 - special maintenance.
 - 1.4. The line maintenance includes the following operations:
 - Post-flight check operations BC:
 - Parking maintenance of helicopter OC;
 - Pre-flight check operations OB;

Inspection and maintenance operations - maintenance checks OB-1, A-1, A-2, B.

- 1.5. The post-flight check operations (BC) are performed after each landing of the helicopter, the engines being shutdown.
 - 1.6. The parking maintenance of helicopter (OC) is performed:
 - when the flight crew transfers the helicopter for maintenance or storage for a period of more than 2 hours;
 - when the helicopter is displaced to the other parking apron.
- 1.7. The pre-flight check operations (OB) are performed immediately prior to each flight irrespective of performed line maintenance check.
- 1.8. The helicopter maintenance in accordance with "OB-1" maintenance check is performed prior to helicopter flight:
 - if the helicopter parking period after line maintenance is 12 hours and more;
 - if "A-1" maintenance checks were carried out after flights the day before, regardless of previous parking period;
 - after periodic maintenance.
 - 1.9. The helicopter maintenance in accordance with "A-1" maintenance check is performed:
 - after helicopter landing, when the time in flight is 45 minutes and more, and if "A-2" maintenance checks are not required;
 - during scheduled refueling of the helicopter, when the time interval between landings is less than 45 minutes;
 - after flights, when the total flying time today is less than 7 hours.
- 1.10. The helicopter maintenance in accordance with "A-2" maintenance check is performed: after flights, when the total flying time today is 7 hours and more, and periodic maintenance is not required;

Note: When the total flying time today is less than 7 hours, the "A-2" maintenance checks are performed once per two days, during which at least one flight was performed.

- after any periodic maintenance checks;
- after special maintenance (in accordance with instructions of section 7 of present maintenance schedule).
- 1.11. The helicopter maintenance in accordance with "B" maintenance check includes the operations, performed with intervals of (25 \pm 5) flight hours, and the count is kept from numbers, divisible by 25 hours (only for helicopter frame and power unit).
- 1.12. The periodic maintenance consists of preliminary operations, inspection and maintenance operations, lubrication and final operations.
- 1.13. The periodic maintenance is assigned basing on the helicopter flying time in hours, since it was placed in service or after the last overhaul and includes the basic maintenance checks Φ-1,

to be performed every (50 \pm 10) flight hours, and additional operations Φ -2, 3 and 4 to be carried out every 100, 300 and 500 flight hours respectively, regardless of tolerance at the previous periodic maintenance.

- 1.14. There is a single tolerance equal to ± 10 flight hours for all periodic maintenance operations. In case of step-by-step maintenance procedure it is allowed to increase the tolerance up to ± 20 flight hours for operations with intervals of 100 hours and more.
- 1.15. The maintenance of engines, units and instruments is determined by the helicopter flying time. In case of replacement of the engine (engines) and other components due to expiration of service life or before the expiration date, carry out the maintenance checks, required by helicopter flying time, and additional operations:

connected with replacement of the engine (engines) or components;

- inspection of helicopter frame structural components and systems points, which are accessible only with the removed engine or component.

The subsequent maintenance of engine (engines) and other components is performed according to maintenance checks, corresponding to the helicopter flying time.

- 1.16. When performing all periodic maintenance checks it is necessary to check the operating time of engines, oils and all units, having the limited service life, to exclude their overtime operation in the next flight and to determine the necessity of their replacement.
- 1.17. The helicopter maintenance during storage is performed during intervals between flights and includes the following operations:

helicopter preparation for storage;

- helicopter maintenance every (10 ± 2) days; (30 ±5) days; 3 months \pm 10 days; 6 months \pm 1 month;

helicopter preparation for flight after storage.

1.18. The seasonal maintenance is performed during helicopter preparation for autumn-winter and spring-summer periods of operation.

1.19. The special maintenance is performed after:

- flight in turbulent atmosphere (when exceeding the permissible limit loads), steep turns, lightning strike, flying in icing conditions, hard landing, at increased vibration level, resonance conditions and staying on the ground in storm weather;
- replacement of engines, main, intermediate and tail gear boxes, main and tail rotors hubs.
- 1.20. All operations, specified in Maintenance Schedule (MS), should be performed in accordance with task cards, included in Maintenance Manual of Ми-8МТ helicopter, as well as maintenance procedures and storage instructions, included in Maintenance Manuals of vendor items.

Follow the instructions of Air Transport Department and Maintenance Manuals of Mu-8MT helicopter, TB3-117BM engine, BP-14 gear box and another components, as well as effective civil aviation bulletins when it is required to perform operations, not specified in the above-mentioned documents.

All revisions and supplements should be introduced in MS in proper time according to directives of Air Transport Department and industry bulletins, validated by Air Transport Department.

1.21. The task card with the same number, that is in the Mи-8MT helicopter Maintenance Manual (8MT-0007-00РЭ), third edition, or in the Vendor items Maintenance manuals – for vendor items, corresponds to each MS item.

When performing the checks of helicopter equipment and avionics in the laboratory for compliance with appended Instructions on checking instruments and sets, follow the references to the documents, indicated in the column "Remarks".

- 1.22. When performing any of helicopter maintenance checks, eliminate all troubles, revealed by crew in flight and detected during maintenance.
- 1.23. On completion of operations, connected with replacement, installation and adjustment of units in helicopter, engines control systems and another systems, make certain of serviceability of units and systems, and compliance of control position to position of controlled element.
- 1.24. On completion of operations, connected with hinging-up of instrument panels, perform the checkup of pressure instruments.

- 1.25. The helicopter maintenance is performed by technical maintenance personnel, trained for each of specialties, familiar with structure, instructions on technical maintenance and repair of aviation equipment in civil aviation (HTЭPAT ΓΑ –93), Instruction on safety precautions, present maintenance schedule; authorized for Mu-8MT helicopters maintenance in accordance with established procedure and responsible for completeness and quality of performed operations.
- 1.26. The technical maintenance personnel, authorized for helicopter maintenance on one's own, is responsible for organization and control of quality of performed operations in accordance with present MS.
- 1.27. The quality step-by-step inspection of operations, performed during periodic maintenance of the helicopter, is carried out by aircraft maintenance station maintenance personnel, assigned in accordance with Civil aviation ministry Instruction No. 29/V dated 12.10.89 "Standard statement on technical control department of airline aircraft maintenance station, production enterprise and flight institution of civil aviation".
- 1.28. Technical documentation should be drawn up in accordance with effective statements after each maintenance of thhelicopter.
- 1.29. The engines fuel system should be always filled with fuel. Once the fuel system has been emptied, preserve the fuel system pipelines and units not later than 24 h after fuel has been drained.
- 1.30. Removal of factory lead seals of helicopter units, engines and units of helicopter equipment, whose warranty terms have not elapsed, for troubleshooting is performed only by representative of supplier factory. On completion of troubleshooting the seals of the units and equipment should be applied by representative of supplier factory, with a corresponding entry on performed operation made in the Log-Book (Certificate) of the respective unit.
- 1.31. In case of pre-term or unscheduled removal of any item from the helicopter, hang out a pennon in plain view in the cockpit and tag, indicating that this item has been removed.



2. SAFETY PRECAUTIONS

- 2.1. Prior to carrying out the operations in the helicopter, it is necessary to make certain that the helicopter if grounded, all automatic circuit breakers and switches of electrical loads are in OFF position.
- 2.2. The ground power sources may be connected to the helicopter mains only if the permission of the flight engineer, engineer or chief of maintenance crew has been given. When power supply sources are connected to the helicopter, hang out a placard HELICOPTER ENERGIZED.
- 2.3. It is necessary to deenergize the helicopter mains when carrying out the operations on removal and installation of helicopter equipment and avionics in the helicopter, as well as inspecting the wiring of distribution devices (junction boxes) and troubleshooting in the electric circuits. Hang out placards "WORKS ARE CARRYING OUT. DO NOT ENERGIZE!" in the cockpit at the external power and emergency power-up switches, as well as at the connectors of ground power sources connection.
- 2.4. In all cases of helicopter standing on the ground, the PUO-3 radioisotope ice detector probe should be covered with protective casing.

It is STRICTLY PROHIBITED to open the radioactive sources like PIO-3 radioisotope ice detector and to remove the base plate with radioactive element from them in service.

The detectors together with the radioactive sources are not to be destroyed and buried at the operator.

When working with the radioisotope sources follow the "Basic sanitary regulations on operation with radioactive substances and sources of ionizing radiation" OC⊓ № 950-72.

- 2.5. When the transmission and controls (manual, pedal and collective pitch/throttle) are being tested and adjusted, it is prohibited to perform any operations in the areas of moving elements. Prior to turn the transmission and move the controls, it is necessary to give warning commands to the maintenance personnel, working in the specified areas, and to receive their reports on safety.
- 2.6. During engines cranking it is prohibited to stay and carry out the operations in the engine and gear box compartments, tail boom and in the area of helicopter rotors. The top engine access hatch in the cockpit should be closed.
- 2.7. Be careful and avoid touching the hot parts to prevent burns when inspecting the power plant and walking on the servicing platforms after engines shutdown.
- 2.8. When inspecting the helicopter make use of serviceable lamps with protecting grids only. Damaged cable insulation, sparking and loose plug-to-socket connection are not allowed.
- 2.9. Make certain that hydraulic jacks, hoisting cranes and electrically controlled movable hoists are serviceable prior to their application. It is strictly prohibited to use faulty hoisting devices or devices having the expired inspection (per specifications) time.
- 2.10. Inflate the landing gear wheel tyres with compressed air from high-pressure bottles and blow out the parts assemblies using a special reducer, adjusted to pressure in accordance with technical requirements.
- 2.11. It is not allowed to use the protruding elements and the other objects of helicopter structure instead of stepladders, except for specially designed elements (servicing platforms on the cowlings of engine and gear box compartments, steps etc.)
 - 2.12. It is not allowed to carry out any operations standing on the tail boom.
- 2.13. All operations on installation and removal of engines, gear boxes, main rotor hub and blades should be performed under the direction of responsible person, having the authorization to perform slinging operations (engineer, headman), using hoisting devices and rigging arrangement, specified by technology.
- 2.14. The helicopter should be lifted by means of all hydraulic jacks simultaneously. Nobody should stay on or under the helicopter during lifting. Do not attempt to lift the helicopter if the wind velocity is more than 8 m/s.
- 2.15. It is not allowed to tighten the connections, nuts and to relocate the fastening (attachment) of pipelines of air and hydraulic systems being under pressure.
- 2.16. As the decay products of E-3B synthetic oil are toxic, prevent getting of oil onto exposed areas of skin. If oil gets on the exposed areas of skin, it is necessary to wash it immediately with

warm water and soap. If 5-3B oil gets on the parts and surfaces of the helicopter, remove it immediately with cloth, wetted in gasoline for technical purpose, and wipe dry this surface.

2.17. It is not allowed to refuel the helicopter:

with the engines running;

when the fire-fighting means are not available;

during storm.

2.18. Helicopter electrical system power supply and units, servicing the refueling, should be switched on before refueling and switched off on its completion.

2.19. During helicopter refueling it is not allowed to:

- perform maintenance of radio, electric and oxygen equipment;

- switch on and off the automatic circuit breakers and switches in the helicopter cockpit and

 perform any operations, connected with sparking, in the helicopter and at the distance of 25 m from the helicopter.

- 2.20. Engines starting and testing on completion of periodic maintenance checks or after elimination of troubles should be performed on specially assigned or mooring sites, as well as on parking sites provided that the requirements of item 7.7.4 ΗΠΠ ΓΑ-85 are fulfilled.
- 2.21. When the engines are being tested, nobody should stay within the main rotor blades swept area, as well as within tail rotor zone. It is not allowed to stay closer than 25 m from the helicopter, except for technician, observing the starting.
- 2.22. Only if the engines are operating at idle power it is allowed to approach to the helicopter, at that one should remember that the lowest left front and right rear areas are the most dangerous areas of blades rotation.

3. LINE MAINTENANCE

M.S. item	Name of equipment and description of maintenance operations	Remark
	Post-flight check operations (BC)	
010.10.00б	Check the helicopter grounding. Ground the helicopter.	Operation is performed by technical specialist responsi- ble for helicopter post-flight check.
030.80.00a	Inspect the PI/O-3A ice detector and put the protective casing on the detector probe.	Operation is performed by technical specialist responsi- ble for helicopter post-flight check.
034.10.00a	Make sure that Pitot tubes' heating is turned off and inspect them. Make sure of security of attachment, absence of mechanical damages and cleanliness of inlets of pitot tubes and KB-11 altitude controller. Put covers on pitot tubes.	
033.40.00c	Inspect the landing-search lights, taxiing lights, navigation lights, formation and rotor blade tip lights, anti-collision lights, and exterior antennas of avionics. Make sure that they are free from dirt and damages.	
012.10.00в	Get familiar with entries in Log Book and obtain information from crew on operation of helicopter equipment and avionics.	
012.10.00e	Make certain that all switches are in initial positions, automatic circuit breakers and batteries are off.	
	Pre-flight check operations (OB)	
024.30.00c	Check availability of batteries aboard the helicopter or install batteries (if removed). Make entry on batteries installation in Log Book, indicate the date and name, and sign.	
012.20.00д	Remove the covers from pitot tubes.	
030.80.00a	Remove the protective cover from PI/O-3A ice detector probe.	
034.10.00b	Check operation of pressure instruments from pitot tubes.	Operation is performed after a rainfall of any rate, resulting in continuous water flow on the fuselage surface, as well as after dust storm, snowfall, removal of ice or snow and helicopter flushing.
024,40.00a	Connect external power source to helicopter (if airborne batteries are not used for starting) prior to engines starting. Disconnect the external power source from helicopter at the crew captain command after starting. Having tested the engines, get familiar with crew remarks on operation of engine and helicopter systems monitoring instruments. Eliminate the detected defects, if necessary. Preparation of helicopter for storage (OC)	Operation is performed by technical specialist responsible for helicopter pre-flight check.
024.60.006	Check the helicopter grounding. The helicopter should be reliably grounded.	
012.10.00e	Make certain that all switches are in initial positions, automatic circuit breakers and batteries are off, and protective covers and casing are placed on pitot tubes and PMO-3A ice detector.	
129.20.00д	Unload holders of signal flares and install blanks in the holder casings.	
024.30.00	Remove batteries from helicopter and forward them for indoor storage at ambient air temperature–5 ^O C or below. Make entry in Log Book on removal of batteries, indicate the date and sign.	

INSPECTION AND MAINTENANCE OPERATIONS

	Name of equipment and	Mainte	nance	check	Remark
M.S. item	description of maintenance operations	OB-1	A-1	A-2	Iteman
24.00.00	POWER SUPPLY SYSTEM				
24.20.00a, b	Inspect the CCC-40ПУ generators in the main gear box compartment and branches and flexible hoses leading to them.			+	
24.20.00h	Inspect the $\Phi\Gamma$ -5 filters in the main gear box compartment.		7.	+	
24.20.00n	Having tested the engines, obtain the information from crew on operation of AC power sources.			-	
24.30.00c	Install the storage batteries in the helicopter. Make an entry in the Log Book.		-	3 0	
24.30.00a	Check the degree of charge of storage batteries (separately and under load).	1	-		
24.30. O 0f	Inspect the A3Π-8M automatic circuit breaker and PH- 120V voltage regulator, tightening and locking of socker connectors in the radio compartment and tail boom.	t	**	+	
24.30.00j, l	Check the operation of DC electrical system and storage batteries heating system			-	
24.30.O0k	Having tested the engines, get familiar with crew remarks on operation of CTГ-3 starter-generator of AИ-9B engine in the standby power source operating mode.	+	•	3.0	
24.40.O0a	Check the external power mains for serviceability.	+	-		
24.40.O0b	Inspect the plugs of socket connectors ШРΑΠ-500K and ШРΑΠ-400-3Φ.		-	-	
24.50. O 0a	Inspect the wire harnesses and cables of distribution circuit along the starboard of fuselage center section, in the radio compartment and tail boom, in the RH and LH engine compartments, in the main gear box compartment.	е		+	
24.50. O 0b	Inspect the fuses of ПМ type, mounted in the AИ-9B en gine starting junction box, in the cargo cabin, in the radio compartment and tail boom.	0	-	+	
132.20 .00a	Inspect the electric winch units and wire harnesses leading to them. Make sure of security of attachment of winharnesses, connection of socket connectors and absence of mechanical damages on them.	е	-		
132.5 O .00a	Inspect the external load sling system wire harness (whe mounted). Make sure of wire harness security of attachment, connection of socket connector, absence of wir harness insulation damages. Inspect the portable control panel of load release from external load sling system check the ДГ-64M shackle and buttons on the portable control panel.	n- re ol n,	-		
	Perform functional test of the electric equipment:	+		-	
24.20. OOm	- ПО-500A and ПТ-200Ц inverters;		-		
26.10_00d	- fire warning system;		-		
26.20 ₋ 00c	- fire extinguishing system;		-		
28.20 .00c	- fuel pumps;			-	
28.20 _00d	- fuel emergency shut-off valves			_	
132.5().00b	- energized external load sling system.		-		
26.00.00	FIRE-FIGHTING EQUIPMENT				
26.20 .00b	Inspect the helicopter portable fire extinguishers OY- Make sure of intactness of locking devices and availabili of bottle valve seal.	ty		-	
26.27,01	Check pressure in the УБШ-4-4 fire extinguishers using pressure gauges. The pressure in the fire extinguishers depends on ambient air temperature as follows: t°C -60 -50 -40 -30 -20 -10 0 kg/cm 69 72 76 80 84 88 92 t°C +10 +20 +30 +40 +50 +60 +70 +80 kg/cm 96 100 106 112 118 125 133 142		-	-	

M.S. item	Name of equipment and	Mainte	enance	check	T
	description of maintenance operations	OB-1		A-2	Remark
33.00.00	LIGHTING EQUIPMENT		- alka-		
33.10.00a, b	Inspect and check the dome lights, lights and sockets in	+		+	
	the cockpit.				
22 20 00a b a	Check the cockpit lighting equipment for serviceability.				
33.30.00a, b, c	Inspect and check the cargo cabin lighting, the KЛРСК-45 cabin lamp, ФР-100 light and sockets; the radio com-	+	-	+	
	partment and tail boom lighting. Check the lighting of				
	cargo and technical compartments for serviceability.				
33.40.00a	Inspect and check the landing-search lights, taxiing lights,	+	+	+	
	navigation and rotor blade tip lights, anti-collision light for				
	serviceability. Make sure of absence of dirt and damages.				
31.00.00	INSTRUMENTATION				
31.10.00a	Inspect the instrument panels and control panels. Make	+	-	-	
	sure that the panels of electric control panel are securely	i			
	locked; the instruments, annunciators and light conduc-				
31.20.00a	tors are securely fastened.				
31.20.00a	Wind up the AYC-1 clock and make sure of its functioning. Set precise Greenwich time and move the second	+	270		1000
	hand to zero.				
34.00.00	FLIGHT-NAVIGATION EQUIPMENT				
34.10.00	Check the altimeters' barometric pressure scale readings	+	+		It is not allowed to brit
	for compliance with atmospheric pressure value, reduced	•		-	the altimeters' scales
	for helicopter parking site.				conformity immediate
					in the helicopter.
34.10.00a	Inspect the KB-11 altitude controller static pressure re-	+	170		
	ceivers, pitot tubes and moisture sumps, drain the con-				
	densed moisture.				
	Make sure of serviceability of the above-mentioned items and pitot static system changeover valve.				
34.10.00b	Check the operation of pressure instruments from pitot				
O4.10.00B	tubes and air-tightness of pitot system.	+	-	•	
	Perform functional test of the instrumentation:	+		- 20	When the AC power
22.20.00d	- AΠ-345 autopilot;	. 1	- 1		source is not available
34.12.02в	ВЭМ-72Ф altimeter in the "Autocheck" mode:				obtain information fro
	CAUTION. Do not change the static pressure in the indi-				crew on operation
	cator casing and do not rotate the Po entry handle when	1			instrumentation aft
	the altimeter power is switched off.				engines testing.
34.20.00f 34.20.00	- AF5-3K gyro horizon; - BK-53PB erecting cut-out switch;				
34.20.00	- ЭУП-53 turn indicator;				
34.10.00d	- pitot tubes heating system (indicated by annunciator				0. 0
01.10.000	lighting up)		- 1		Checking time of th
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		- 1		pitot tubes heating sy tem under curre
		1	1		should not exceed on
					minute.
34.41.00г	- FMK-1A compass system				
	AIBORNE AUTOMATIC TEST AND				
142 10 00	FLIGHT DATA RECORDING SYSTEM				
142.10.00	Check the availability of film in the K12-51ДM recorder	+	+	-	
	unit cassette and make sure that its length is enough for flight.				
	Warm up the recorder unit,				
	Record the de-energized vibrator lines of recorder unit.	+ +	+		This apprehies should
	Title and an oriorgized vibrator lines of recorder unit.	7	т		This operation shoul be performed wit
				- 1	be performed wit newly installed cas
					sette.
	Disconnect the cassette from recorder unit, put the re-		+		Operation per Ф-А
142.10.00d	moved cassette into the sack and send it for developing.		1	1:	should be performe
	and the contains contain developing.			- 1	
	and outlier action and outlier actioning.				only at the end of the
				- 11	only at the end of the flight day, if operation
					only at the end of the flight day, if operation oer Ф-A2 are not per formed.

M.S. item	Name of equipment and	Mainte	nance	check	Remark
IVI.S. Item	description of maintenance operations	OB-1	A-1	A-2	Kemark
23.00.00	Inspect the exterior antennas, fairings of suppressed fuselage antennas and finger and bushing insulators, beam antenna lead-in. Make sure of their cleanliness, security of attachment, absence of damages on them and cleanliness of drain holes.		-	+	
23.70.00ц (23.70.00a)	Perform the Π-503 (MC-61) voice recorder maintenance in the helicopter. Check the operation of voice recorder in "MIKE" and "ICS" modes, pronounce the words legibly and record date, type and serial number of helicopter, name of airport and operator's name on sound recording medium. Make "Recorder OK" entry in Log Book and in the work order card. If MC-61 voice recorder cassette has been replaced make an entry: "Cassette has been replaced. Sound recording medium volume is for … hours of cockpit voice recorder continuous operation"; enter date, operator's name and sign it.		+	-	Operation per Φ-A1 should be performed in case of insufficient length of sound recording medium for flight.
113.10.01	Check the intactness of locking devices of items "020M" and "81".	•	-	+	
	Perform functional test of the following equipment:	+	3.00		
113.01.02	- "020M" item (indicated by neon lamp illumination on the unit No. 8 when switching the channels);				Listen to the fan opera tion prior to check. It case of unwanted sounds remove the uniand send it in the laboratory.
23.20.00p	- VHF radio stations No. 1 and No. 2;				When the AC powe
32.10.00p	- Short-wave radio station;				source is not available
110.40.00a	A-037 (PB-3), PB-УМ Radio altimeter;				obtain information from
23.40.00a	- СПУ-7 interphone system;				crew on operation of
23.12.00a	- РИ-65Б voice warning system;				avionics after engine
110.30.OOa	- ДИСС Doppler navigational system				testing.
110.10.00B	- APK-9 and APK-УД automatic direction finders;				
	- "Квиток" A-723 item;		8		
110.72.00r	- 8A-813 weather radar;				
113.32.02a	- CO-72 item.				

4. PERIODIC MAINTENANCE

M.S. item	Name of equipment and description of maintenance operations	Intervals (flight hours)	Remark	
21.00.00	AIR CONDITIONING SYSTEM			
21.40.00h	Check the condition of commutator and brushes of fan motor	300		
21.10.001.	of KO-50 kerosene heater.			
	Measure and put down the length of brushes.			
21.40.00c	Check the KO-50 kerosene heater for serviceability.	50		
24.00.00	POWER SUPPLY SYSTEM			
24,20.00	AC POWER SYSTEM			
		F0		
24.20.00b	Check the CFC-40ПУ generators for external condition and security of attachment.	Security States		
24.20.00c	Check the security of contact connections of CFC-40ПУ generators.			
24.20.00d	Check the brush-gears and slip rings of CΓC-40ΠУ generators. Measure and put down the length of brushes.	100		
24.20.00e	Add grease to bearings of CFC-40ПУ generator units.	300		
24.20.00e	Check the KBP-3-2, A3Π1-3Д, AΠΠ-1A, KOЧ-1A, ΦKP-1 units			
24.20.001	for external condition and security of attachment.	30		
24.20.00g	Check the external condition and security of attachment of TC310C0ЧБ, TC/1-2, Tp115/36 transformers, PH-600 voltage regulators and ДВ-302T fans.			
24.20.00i	Check the ΠΟ-500A inverter for external condition, security of attachment and connection of cables.	50		
24.20.00j	Remove the IIO-500A inverter from the helicopter to perform maintenance and checkup of main parameters. Install the inverter into place on completion of maintenance and checkup of main parameters.			
24.20.00k	Check the ПТ-200Ц inverter for external condition and security of attachment.	50	HILL NIE ZOW	
24.20.001	Remove the ПТ-200Ц inverter from the helicopter to perform maintenance and checkup of main parameters. Install the inverter into place on completion of maintenance and checkup of main parameters.			
24.20.00m	Check the automatic switching over of ΠΟ-500A and ΠΤ-200Ц inverters.	50		
24.20.00o	Check the AΠΠ-1A switching unit for serviceability.	50		
24.21.62	Check the БЧФ-208 phase-sequence unit for external condition.		(4)	
24.22.01	Remove the ДВ-302T electric fan of PH-600 air-cooling. Blow out the fan motor, check the brush-gears. Measure and put down the length of brushes of fan electric motor.	500	1	
24.22.01	Install the ДВ-302T electric fan in the helicopter.	500		
24.30.00	DC POWER SYSTEM			
24.30.00	Remove the storage batteries to send them for maintenance at a battery-charging facility.	Once a month	The maintena	
24.30.00b	Check condition of storage batteries containers.	Once a		
24.30.00d, e	Inspect the attachment fittings of containers of storage batteries and vent pipes.		dance with Ted cal specification	
24.30.00c	Install the storage batteries in the helicopter on completion of maintenance operations.	month Once a month	and Maintena instruction of CAM-28 type teries.	
24.30.00f	Check the A3Π-8M automatic circuit breaker and PH-120У voltage regulator for external condition and security of attachment.			
24.30.00g	Check the BY-6A rectifiers for external condition and security of attachment.	50		

T T	description of maintenance operations	(flight hours)	Remark
	Check the batteries heating for serviceability.	50	Perform this opera tion when the am bient air tempera ture is below zero.
	Check the operation of DC electrical system.	50	
	DISTRIBUTION CIRCUITS		
	Check the external power mains for serviceability.	50	
	Inspect the distribution devices and equipment mounted inside them.	50	
	Inspect the negative polarity wires.	50	
	Inspect the bonding of helicopter equipment.	50	
	FIRE-FIGHTING EQUIPMENT		
	Inspect the fire warning pickups, their electrical wiring, sockets, actuating units and shock absorbers. Make sure that the units are and securely attached free from damages; socket connectors are connected and locking devices are intact.		
26.10.00d	Check the fire warning system for serviceability.	100	
26.10.00	Check the ССП-ФК system actuating units using ПП-ССП control panel.		
26.20.00c, e	Check the fire extinguishing system for serviceability, as well as operable condition of manual-controlled push buttons and circuits of fire extinguishing means.		
28.00.00	FUEL SYSTEM		
28.20.00a (item 4), e	Check the security of tightening and locking of plug-and- socket connector union nuts of 4635 fuel pump, 610200 sole- noid valve, and 768600MA fuel emergency shut-off valve. Make sure that the protective covers are serviceable.		
28.2O.00c, d	Check the fuel pumps and 768600MA fuel emergency shut-off valves for serviceability.	50	
28.40.00c	Check the "БАК ПОЛОН" (TANK FULL) annunciator lamps for serviceability.	50	
29.00.00	HYDRAULIC SYSTEM		
29.30.00a	Inspect the ИД-100 transmitters of ДИМ-100 pressure gauges and pressure indicators MCT-35A and MCT-25A.	100	
30.00.00	ANTI-ICING SYSTEM		
30.20.00a	Inspect the TЭP-1M temperature regulators of dust-protection devices.		
30. 4 0.00a	Inspect the electric units of glass anti-icing system; make certain of absence of mechanical damages, security of attachment, tightening and locking of socket connectors.		
30.40.00d	Inspect and check the security of connection of wires to the temperature transmitters of glasses.		
30. 60.00a	Inspect and check the fairings of main rotor current collector and electric wire harnesses leading to heating elements of blades. Make sure of their reliable beading, intactness of protecting rubber pipes and covers, and secure tightening and locking of socket connectors.		
30 .60.00f	Inspect and check condition of slip rings and brushes of cur- rent collectors of main and tail rotors.	500	
30_80.00a	Inspect the PUO-3A ice detector transmitter; make certain that it is free from dirt and mechanical damages.	50	
30_80.006	Check the РИО-3A ice detector for serviceability.	50	
30.80.03, i.7	Inspect and check the integrity of transmitter heating element and condition of rubber sealing ring in the cable part of Ш1 and Ш2 connectors of РИО-3A ice detector.	500	
30.80.03, i.8	Check the insulation resistance of cable line "transmitter – electronic unit".	500	

M.S. item	Name of equipment and description of maintenance operations	Intervals (flight hours)	Remark
33.40.03в	Remove the МСЛ-3 anti-collision light and reinstall it in the helicopter after completing the maintenance.	500	The maintenanc of anti-collisio light should b performed in accordance with Anticollision light Maintenance Manua 004.0016-P9, 1991.
49.40.00	AIRBORNE AUXILIARY POWER UNIT		
49.40.01в	Inspect the commutator in assembly with brushes of CTF-3 starter-generator. Measure and put down the length of brushes.		
49.40.02в	Inspect the contacts of ignition coil.	500	
73.10.00	ENGINE FUEL FEED SYSTEM		
73.10.00a, b, c	Check the impedance of thermocouples circuit at terminals of PT-12-6 temperature regulator and adjustment of PT-12-6 temperature regulator using test desk. Make certain of security of attachment and absence of external damages. POWER UNIT		
73.15.04 (73.16.04)	Inspect and check the ЭРД (РПР) Engine electronic regulator adjustment using ПНК control panel.	300	
132.20.00	AIRBORNE HOIST BOOM AND ELECTRIC WINCH		
132.20.00a	Inspect the units of ЛΠΓ-150M electric winch in the helicopter made in cargo version. Make sure of security of attachment of electric wire harnesses, connection of socket connectors and absence of insulation damage.		
132.50.00	EXTERNAL LOAD SLING SYSTEM		
132.50.00a	Inspect the external load sling system electric wire harness (if mounted). Make sure of security of attachment of electric wire harness, connection of socket connector, absence of wire harness insulation damages. Inspect the portable control panel of load release from external load sling system. Check the ДΓ-64M shackle and buttons on the portable control panel.		
	Maintenance and operational status check of the removed		
24.20.001	equipment in laboratory Perform maintenance and checkup of main parameters of ПТ-200Ц inverters in the laboratory:	500	Technical specications of ПТ ar ПАГ М type inversers. "Air transport 1985.
	a) check the external condition;		
	b) perform maintenance of commutator in assembly with brushes;		
	c) check the following parameters:		
	 position of moving part of magnetic conductor of ДК-13 and ДК-14 loop chokes; 		
	- AC phases sequence;		
	 frequency and value of output voltage at the change of supply voltage and load current; 		
	- stability of frequency control system at the load of 3.2 A;		
	- value of output voltage and input current at the load of 3.2 A;		
	- degree of sparking under brushes.		

M.S. item	Name of equipment and description of maintenance operations	Intervals (flight hours)	Remark
24.20.00j	Perform maintenance and checkup of main parameters of ΠΟ-500A inverters in the laboratory:	500	Technical specifications of ITO type inverters. "Air transport Moscow, 1985.
	a) check the external condition;		
	 b) perform maintenance of commutator in assembly with brushes; 		AND THE RESIDENCE OF THE PERSON NAMED IN COLUMN 1
	c) check the following parameters:		
	 frequency and value of output voltage at the change of supply voltage and load current; 		
	 input current in the no-load operation mode and at the rated load; 		
	- degree of sparking under brushes.		
33.40.03д	Perform maintenance and checkup of main parameters of МСЛ-3 anti-collision light in the laboratory:		MCЛ-3 ant collision light Mair tenance manua 004.0016-PЭ, 1991.
	 clean the internal surface of light filter and inner cavity of anti-collision light; 		
	- replace the brushes;		
	- check the frequency of anti-collision light;		
	- renew the grease in the cylindrical gearing, which transmits rotation to the platform with lamps, with the grease ЦИАТИМ-221.		1
	INSTRUMENTATION		
	Maintenance of equipment in the helicopter		
	Perform functional test of the Instrumentation:	100	
28.40.00d	- fuel level indicator;		
3 1.20.00	- helicopter clock;		
34.10.00d	 pitot tubes heating system (indicated by annunciator lighting up) 		
34.20.00	- ЭУП-53 turn indicator;		
34.20.00	- BK-53PB erecting cut-out switch;		
34.20.00f	- АГБ-3K gyro horizon (separately from the main source and standby inverter ПТ-200Ц);		
3-4.41.00r	- FMK-1A compass system.		
3 -4 .10.00a	Inspect the Pitot static system units. Make sure of absence of damages, security of pipelines connection intactness of locking. Drain the condensed moisture from moisture sumps. Clean the holes of autopilot KB-11 altitude controller static pressure receiver.		
3 1.10.00b	Open the panel of instrument panels. Inspect the electric wiring and socket connectors.	100	7
3 4.10.00c	Blow through the pipelines of pitot systems of total and static pressure and KB-11 altitude controller static pressure system with compressed air.		

M.S. item	Name of equipment and description of maintenance operations	Intervals (flight hours)	Remark
34.10.00	Inspect the altimeters, make certain of absence of damages and presence of paint (on caps) on locking	100	In case of uncor
	rack-and-pinion mechanism. Check the altimeters' barometric pressure scale readings for compliance with		check the altimeters for compliance
	atmospheric pressure value, reduced for helicopter parking site.		with appende Instructions of
			checking instruments and sets. is NOT allowed to
			bring the altime ters' scales to cor formity immediatel
34.20.00b	Inchest the KIA 42 common AA I		in the helicopter.
i. 5	Inspect the KVI-13 compass. Make sure of security of its attachment, presence of locking of compensator screws and presence of correction chart in the helicop-	100	
34.20.00c	ter.		
04.20.000	Make certain of availability of tables of correction of altimeters and speed indicator readings, as well as KV-13 compass and FMK-1 compass system correction	100	
	charts. Make sure that the numbers of equipment correspond to the numbers in the tables.		
34.41.00	Check the ГМК-1A compass system using the УПП-ГМК-1 set.	500	
22.10.00d	Perform the autopilot checkup and adjustment with the hydraulic system being switched on.	500	
	Remove from helicopter and install after maintenance and after main parameters check:	500	
34.10.00	- YC-450K speed indicator;		
34.10.00	- ВД-10BK altimeter;		
34.10.00	- BAP-30MK vertical-speed indicator;		
34.12.02	- B3M-72Φ altimeter;		
34.20.00	- BK-53 erecting cut-out switch;		
34.20.00e	- 9УΠ-53 turn indicator;		
34.20.00g items 1, 9	- АГБ-ЗК gyro horizon.		Prior to gyro hor zons removal mak sure of installatio marks availabilit on the instrumer panel and bracke of AF5-3K attachment.
34.00.00	After removal of equipment inspect the places of equipment installation, socket semi-connectors, shielding of cables. Make certain of absence of damages. Install the plugs in the semi-connectors. After equipment installation in the helicopter make sure that all equipment is mounted properly and connector coupling nuts are tighten.	500	
34.10.00h items 9, 14	Replace the onboard tables of correction of altimeters and speed indicator readings with the tables, containing the	500	
	data, obtained during the last checkup in the laboratory. Maintenance and operational status check of the removed equipment in laboratory:		
34.10.00	Check the parameters of speed indicators:	500 3	34.10.00i
	- air-tightness of static system;		0.000
	- air-tightness of dynamic system;		X
	- instrument error of readings;		
	- variations of readings;		
34.10.00	- non-smooth travel of pointers. Check the parameters of ВД-10ВК altimeter:	500 3	4.10.00h "Instruc-

M.S. item	Name of equipment and description of maintenance operations	Intervals (flight hours)	Remark
	- air-tightness of casing;		barometric altim
	- variations of readings;		ters (interdepa
	- non-smooth travel of pointers.		mental)", Mosco
	- mismatching of barometric pressure scale read-		"Air Transpo
			1984.
	ings with the value of pressure in the altimeter casing;		
	- draw up the table of readings.		
34.12.00	Check the parameters of BЭM-72Φ altimeter:	500	"Instruction
a) 3.2.1	- check the external condition;		checkout of ba
б) 3.2.2	- check the failure signal output in the form of 27 V		metric altimete
,	DC voltage when switching on the altimeter power sup-	Į.	(interdepart-
	ply with 115V AC, 400 Hz;		mental)", Mosco
3.2.3	- closing of contacts of barometric pressure counter		"Air Transpo
3.2.3			1984.
	Po when setting the barometric pressure of 1013.25±3		"Standard product
	hPa (760±2 mm Hg);		dure of introduct of corrections
3.2.4	- air-tightness of casing		
3.2.5	- value of mismatching of barometric pressure		altimetry".
	counter Po readings with the value of pressure in the		1
	altimeter casing;		
3.2.7	- altitude visual output of the altimeter;	1	
3.2.8	- non-smooth travel of pointers;	1	
		1	
3.2.9	- variation of readings;	1	
3.2.11	 serviceability on the "Autocheck" mode of operation; 		
3.2.12	- difference in information between relative altitude		
3.2.12	and true barometric altitude, reduced to set value of		
- \ 4.0	pressure counter Po.	1	1
B) 1.9	Draw up the table of readings taking into account		
	the summary corrections.	500	04.40.00
34,10.00	Check the parameters of vertical-speed indicator:	500	34.10.00j
	- air-tightness of static system;		1
	- instrument errors of readings;		
	- non-smooth travel of pointer;		
	- value of pointer deflection from the first scale		
	mark.	1	Į.
34.20.00	Check the parameters of gyro horizon:	500	34.20.00g
34.20.00	Check the parameters of gyro nonzon.		items 2-8
	- value of current consumed by gvro horizon at settled duty.		Rems 2-0
	- value of current, consumed by gyro horizon at settled duty;		IRCHIS 2-0
	- readiness time;		Rema 2-0
	- readiness time; - gyroscope precession velocity along roll and pitch axes;		Rems 2-0
	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch;		Rems 2-0
	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five min-		Rems 2-0
2420.00	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes.		
34.20.00	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes. Check the parameters of BK-53PB erecting cut-		BK-53PB
34.20.00 TC No. 1	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes.		BK-53PB Maintenance
	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes. Check the parameters of BK-53PB erecting cutout switch:		BK-53PB
	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes. Check the parameters of BK-53PB erecting cutout switch: - readiness time;		BK-53PB Maintenance
	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes. Check the parameters of BK-53PB erecting cutout switch: - readiness time; - value of input current in phases;	500	BK-53PB Maintenance
	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes. Check the parameters of BK-53PB erecting cutout switch: - readiness time;	500	BK-53PB Maintenance
	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes. Check the parameters of BK-53PB erecting cutout switch: - readiness time; - value of input current in phases; - delay time of correction disconnection and un-	500	BK-53PB Maintenance
TC No. 1	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes. Check the parameters of BK-53PB erecting cutout switch: - readiness time; - value of input current in phases; - delay time of correction disconnection and unsymmetry of delay time;	500	BK-53PB Maintenance instruction
	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes. Check the parameters of BK-53PB erecting cutout switch: - readiness time; - value of input current in phases; - delay time of correction disconnection and unsymmetry of delay time; Check the parameters of ЭУП-53 electric turn in-	500	BK-53PB Maintenance instruction
TC No. 1	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes. Check the parameters of BK-53PB erecting cutout switch: - readiness time; - value of input current in phases; - delay time of correction disconnection and unsymmetry of delay time; Check the parameters of ЭУП-53 electric turn indicator	500	BK-53PB Maintenance instruction
TC No. 1	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes. Check the parameters of BK-53PB erecting cutout switch: - readiness time; - value of input current in phases; - delay time of correction disconnection and unsymmetry of delay time; Check the parameters of ЭУП-53 electric turn indicator - value of input current;	500	BK-53PB Maintenance instruction
TC No. 1	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes. Check the parameters of BK-53PB erecting cutout switch: - readiness time; - value of input current in phases; - delay time of correction disconnection and unsymmetry of delay time; Check the parameters of ЭУП-53 electric turn indicator - value of input current; - time of pointer returning from extreme position to	500	BK-53PB Maintenance instruction
TC No. 1	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes. Check the parameters of BK-53PB erecting cutout switch: - readiness time; - value of input current in phases; - delay time of correction disconnection and unsymmetry of delay time; Check the parameters of ЭУП-53 electric turn indicator - value of input current; - time of pointer returning from extreme position to zero mark;	500	BK-53PB Maintenance instruction
TC No. 1	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes. Check the parameters of BK-53PB erecting cutout switch: - readiness time; - value of input current in phases; - delay time of correction disconnection and unsymmetry of delay time; Check the parameters of ЭУП-53 electric turn indicator - value of input current; - time of pointer returning from extreme position to zero mark; - instrument error at angular velocities;	500	BK-53PB Maintenance instruction
TC No. 1	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes. Check the parameters of BK-53PB erecting cutout switch: - readiness time; - value of input current in phases; - delay time of correction disconnection and unsymmetry of delay time; Check the parameters of ЭУП-53 electric turn indicator - value of input current; - time of pointer returning from extreme position to zero mark; - instrument error at angular velocities;	500	BK-53PB Maintenance instruction
TC No. 1	- readiness time; - gyroscope precession velocity along roll and pitch axes; - error of readings in roll and pitch; - deflection of gyroscope along the roll and pitch for five minutes. Check the parameters of BK-53PB erecting cutout switch: - readiness time; - value of input current in phases; - delay time of correction disconnection and unsymmetry of delay time; Check the parameters of ЭУП-53 electric turn indicator - value of input current; - time of pointer returning from extreme position to zero mark;	500	BK-53PB Maintenance

M.S. item	Name of equipment and description of maintenance operations	Intervals (flight hours)	Remark
28.40.00d	Check the fuel level indicator for serviceability.		
28.40.00e	Inspect and check condition and attachment of	50	
	СД-29A pressure indicators.	50	
28.40.00t	Check the external condition and attachment of		
	pickups of CK9C-20275 fuel level indicator.	50	
28.40.00	Remove the ITBY switch of CK9C-20275 fuel level	500	
	indicator from the helicopter; lubricate the inner con-	500	
	tact surfaces of switch with OK5-122-7 grease.		
28.40.00	Remove the CK9C-20275 fuel level indicator set.	1000	
	Install the fuel level indicator set in the helicopter on	1000	
	completion of maintenance.		
29.30.00	HYDRAULIC SYSTEM CHECK-UP INSTRUMENTS		
29.30.00a	Inspect the ИД-100 transmitters of ДИМ-100 pres-	50	
	sure gauges and pressure indicators MCT-35A and	30	
	MC1-25A. Make certain of absence of damages se-	1	
	curity of attachment, intactness of locking of socket	1	
	Connector coupling nuts.		
65.00.00	MAIN ROTOR CHECKUP INSTRUMENTS		
65.40.00i	Inspect the Π-1 receiver, ΠΟC feedback transmit-	50	
	ters, ИКД-27Да instrument complex of CПVV-52 pitch	30	
	limit system, Mil-100M electromechanism and AM-		
	800K microswitch. Make certain of absence of exter-		
	nal damages, security of attachment, intactness of		
CE 40 00h	socket connectors locking.		
65.40.00b	Check the СПУУ-52 pitch limit system for service-	500	Perform
	ability with the hydraulic system being under pressure.		this operat
		1	together v
			power pl
65.60.00f	Check the УП21-15 rotor pitch indicator for serviceability.		specialist.
65.60.00	Remove the УΠ21-15 rotor pitch indicator for serviceability.	500	
V	pitch indicator set in the helicopter on completion of mainte-	1000	
	nance.		
65.60.00	Remove the set of ИТЭ-1T and ИТЭ-2T tachometers. Install	1000	
	the tachometers in the helicopter on completion of mainte-		
77.00.00	ENGINE CHECK-UP INSTRUMENTS		
77.20.00a	Inspect the 2V2 65 tuin amplifier of 2V4 6		
77.20.004	Inspect the 2УЭ-6Б twin amplifier of 2ИА-6 measuring equipment. Make sure of security of attachment and connection of	50	
	socket connector.	1	
77.30.01a	Inspect the units included in the MB-500E vibration control	50	
	equipment set. Make sure of absence of mechanical dam-	30	
77.30.01в	lages.		
77.30.01B	Check the UB-500E vibration control equipment for service- ability using built-in testing.	50	
	Check the VB-SOE vibration control equipment for service-		
	ability using YNUB-Y test set:	500	
77.30.016	- preparation for checkup;		
77.30.01д	- calibration of equipment;		
77.30.01e	- operation of warning;		
77.30.01ж	- steady signal for computerized testing system;		
77.30.01r	- availability of MB-03-1 transmitter capacity;		
77.30.02б, е	Remove the MP-117M current duty meter, install the current	500	
	duty meter in the helicopter on completion of maintanance	300	
77.20.00	Remove the 2y3-65 amplifier 2VT-6K temperature indicator	500	
	and Tik-b intermediate blocks of 20A-6 twin measuring		
	requirement. Install the measuring aguinment in the butter of		
	equipment. Install the measuring equipment in the helicopter		
142.00.00	on completion of maintenance. AIBORNE AUTOMATIC TEST AND		

M.S. item	Name of equipment and description of maintenance operations	Intervals (flight hours)	Remark
142.10.00a, b, c, g	Check the external condition and security of attachment of ДВ-15ВМ altitude transmitter, ДАС indicated speed sensor, МУ-615А transmitter and MCTB-2,5C pressure indicator from САРПП-12ДМ system.	50	
142,11.00f	Check the indication of film moving.	100	
142.11.00	Perform the calibration of САРПП-12ДМ system.	500	
	Maintenance and operational status check of the removed equipment in laboratory:		75
28.40.00g	Perform maintenance and checkup of main parameters of CK3C-20275 fuel level indicator in the laboratory:	1000	Technical specifications electric fue level indicators K3C-2097A and CK3C-2027A. "Air transport" Moscow, 1972.
	a) check the external condition;	ner - I	
	b) clean, perform detailed inspection and maintenance of fuel		
	level indicator and its units;	<u> </u>	
	c) check for compliance with appended Instructions on check- ing instruments and sets:		
	- calibration error of electric fuel level indicator set;		
	- serviceability of warning device.		
65.60,00	Perform maintenance and checkup of main parameters of	1000	65.60.00g
33.00,30	УΠ21-15 rotor pitch indicator in the laboratory:		
	- check the error of indicator using a special testing unit УПУ-		
	lyγ.		
	- measure the insulation resistance of electric circuits.		
65.60.00	Perform maintenance and checkup of main parameters of	1000	65.60.00h
	ИТЭ-1T and ИТЭ-2T tachometers in the laboratory:	L	
	- check the error in readings of meters of tachometers com- bined with transmitter using KTY-1M reference tachometric		
	unit.	1	
77.3 O .026, e	Perform maintenance and checkup of main parameters of ИР- 117M current duty meter in the laboratory:	500	ИР-117M currer duty meter Mainte nance manual
	- check the external condition;		
	- check the error in readings of meter;		
	- check the insulation resistance of meter electric circuits.		3 == 20002=1
77 .20.00	Perform maintenance and checkup of main parameters of	500	77.20.00c
	2ИА-6 twin measuring equipment in the laboratory:		
	- check the error of measuring equipment;		
	- measure the block temperature using thermometer;		
	- check the error of ΠK-6 block;		
	- determine the error of the equipment readings. AVIONICS		
	Equipment operational status check on helicopter	-	
23. 10.00ф	Check the condition, attachment and tension of antennas, as	100	
23. 20.00п	well as antenna components.	100	
110 .10.00e			
11O.11.00e		1	THE STATE OF THE S
110,40.00д			
11-3.00.00			
TC 208, items 1,3-1	0	1	
23 - 10.00y	Inspect the external condition, check the attachment and		
23 _ 12.00d	shock-absorption of units, tightening and locking of coupling		
23 .12.00f	nuts of connectors, condition and attachment of cables (in the		
23 .20.00τ	accessible areas), condition of bonding links of cables and	7	
23 _20.00e	units.	1	
23 .40.00g		1	
23 .50.00e		1	
23 .70.00g	_		
110.10.00m	→ l		
11(0.10.000		1	

		Intervals	
M.S. item	Name of equipment and description of maintenance operations	intervals (flight hours)	Remark
110.11.00h	**************************************		
110.11.00j			
110.30.00t			
110.40.00d			
110.40.00g			
113.00.00			
TC 208, items 1, 3-10			
	Perform functional test of the following equipment:	100	
23.10.00p	- short-wave radio station;		
23.12.00в	- РИ-65Б voice warning system;		
23.20.00p	- VHF radio station No. 1 and No.2;		
23.40.00a	- СПУ-7 interphone system;		
23.70.00ц	- Π-503Б voice recorder;		
110.10.00в	- APK-9 and APK-УД automatic direction finders;		***********
110.21.00д, г	- "Квиток" A-723 item;		
110.30.00a	- ДИСС Doppler navigational system;		
110.40.00a	- A-037 (PB-3) radio altimeter;		
110.72.00r	- 8A-813 weather radar;		
113.01.02	- "020M" item;		
113.32.02a	- CO-72 item.		
113.32.02д	Check the CO-72 item for serviceability using built-in testing and test equipment. Check the operation of CO-72 air-cooling fan aurally.	500	
	Maintenance with equipment removal from helicopter. Remove from helicopter and install after maintenance and after main parameters check:	500	
23.10.00	- short-wave radio station;		
23.20.00 д, м	- VHF radio station;		
23.10.00c, e	- РИ-65Б voice warning system;		V
23.70.00b, f	- recorder unit of Π-503Б voice recorder;		
110.10.00d, n	- antenna unit and receiver of APK-9 automatic direction finder;		
110.11.00c, I	- antenna unit of APK-УД automatic direction finder;		
110.30.00b, s	- ДИСС-15 Doppler navigational system:		
110.40.00b, f	- A-037 (PB-3) radio altimeter;		
113.00.00 TC 201, 202	- unit No. 5-OM of "020" item;	500	
	After removal of equipment inspect the places of units installation, supports, shock-absorbers, racks, bonding links, disconnected connectors, cables. Make certain of absence of dirt, mechanical damages, corrosion and damaged paint coating. Maintenance and operational status check of the removed		
	equipment in laboratory:		
110.10.00b	Perform maintenance and checkup of parameters of receiver unit and antenna unit of APK-9 automatic direction finder:		APK-9 automati
	- graduation accuracy;		Maintenance mar
	- receiver sensitivity;		ual
	- bearing error;	1	
	- limiting homing sensitivity;	1	
	- speed of frame automatic rotation;	1	
	- flush the commutator and frame brushes;	1	
	- replace the grease on the gears of reduction gear;	ļ	
110.11.00e	- lubricate the frame bearing. Perform maintenance of APK-УД automatic direction finder		Br. P. C.
	antenna unit:		AРК-УД automati
	- clean the mechanism;		lirection finde
	- lubricate the trunnions of axles, reduction gear bearings and components of mechanism toothing.		Maintenance man ual
	Check the parameters of "5-OM" unit of "020" item:	500	CPO-2 Mainte

M.S. item	Name of equipment and description of maintenance operations	Intervals (flight hours)	Remark
	- correct setting of optimum coupling of RF generator with III range antenna;		nance manual, To 204, 205.
	- transmitter carrier frequency;		
	- impulse power;		
	- duration of pulses and modulation depth of reply;		
	- correct coding of transmitter modulator;		j,
	- mixing unit current and frequency of III range receiver heterodyne oscillator;		
	 correct setting of gain of III range receiver and I range video amplifier; 		
	 serviceability of III range receiver three-pulse warning indicator decoder; 		
	- parameters of output pulses of 5-1M unit.		
23.10.00	Check the parameters of short-wave radio stations:	500	Radio station Mai
	- transmitter output power;		tenance manual.
	- voltage of sidetone monitoring;		
	- modulation depth;		l.
	- accuracy of frequencies setting;		
	- receiver sensitivity.		
23.20.00	Check the parameters of VHF radio stations:	500	VHF Radio statio
	- supply voltage of measuring unit;		Maintenance ma
	- current of transmitter artificial antenna;		ual.
	- transmitter modulation factor;		1000000
	- voltage of sidetone monitoring;		
	- receiver sensitivity;		
	- operation of squelch device;		
	- transmitter frequency stability;	-	
	- operation of AGC (automatic gain control).		
110.40.00	Check the parameters of A-037 radio altimeter:	500	PB-3 radio altim
	- input current;	000	ter Maintenand
	- calibration;		manual.
	- total sensitivity;		manual.
	- dangerous altitude warning;		
- 11-22	- event signal output.		
110.40,00c	Check the parameters of PB-3 (PB-YM):	500	
110110,000	- input current;	300	
	- total sensitivity;		<u> </u>
	- dangerous altitude warning;		
	- event signal output (except for PB-YM).		
23.70.00	Check the parameters of Π-503 (MC-61) voice recorder:	500	П-503 (MC-6
20170.00		500	Maintenance ma
	- clean the limit switches and working slots of magnetic heads;		ual.
	- clean and lubricate the guides and bearings of handler.		uar.
	- check the clearance between brake disks and brake levers;		1
	- check the braking system;	Š.	1
	-check the magnetic wire tension;		
	alanda Alan annaliting of managements with a site of	l	1
	- check the condition of magnetic wire;	·.	
3.000	- check the magnetic wire lay;		
	check the magnetic wire lay; check the magnetic wire rupture detector and limit switches		
	 check the magnetic wire lay; check the magnetic wire rupture detector and limit switches for operation; 		
	- check the magnetic wire lay; - check the magnetic wire rupture detector and limit switches for operation; - check the engine governor;		
	- check the magnetic wire lay; - check the magnetic wire rupture detector and limit switches for operation; - check the engine governor; - check the automatic switch-on and switch-off of tape drive		
23: 42.00	 check the magnetic wire lay; check the magnetic wire rupture detector and limit switches for operation; check the engine governor; check the automatic switch-on and switch-off of tape drive mechanism. 		DIA GET
23.12.00	 check the magnetic wire lay; check the magnetic wire rupture detector and limit switches for operation; check the engine governor; check the automatic switch-on and switch-off of tape drive mechanism. Check the parameters of PN-655 voice warning system: 	500	1
23 .12.00	- check the magnetic wire lay; - check the magnetic wire rupture detector and limit switches for operation; - check the engine governor; - check the automatic switch-on and switch-off of tape drive mechanism. Check the parameters of PVI-655 voice warning system: - installation of voice warning system unit;		РИ-65Б Maint nance manual.
23.12.00	 check the magnetic wire lay; check the magnetic wire rupture detector and limit switches for operation; check the engine governor; check the automatic switch-on and switch-off of tape drive mechanism. Check the parameters of PN-655 voice warning system: installation of voice warning system unit; replace the magnetic carrier and wash the magnetic heads; 	500	1
23.12.00	- check the magnetic wire lay; - check the magnetic wire rupture detector and limit switches for operation; - check the engine governor; - check the automatic switch-on and switch-off of tape drive mechanism. Check the parameters of PN-655 voice warning system: - installation of voice warning system unit; - replace the magnetic carrier and wash the magnetic heads; - test the output voltages of the voice warning system and	500	1
23.12.00	- check the magnetic wire lay; - check the magnetic wire rupture detector and limit switches for operation; - check the engine governor; - check the automatic switch-on and switch-off of tape drive mechanism. Check the parameters of PVI-655 voice warning system: - installation of voice warning system unit; - replace the magnetic carrier and wash the magnetic heads; - test the output voltages of the voice warning system and record the voice messages.	500	nance manual.
23.12.00	- check the magnetic wire lay; - check the magnetic wire rupture detector and limit switches for operation; - check the engine governor; - check the automatic switch-on and switch-off of tape drive mechanism. Check the parameters of PИ-65Б voice warning system: - installation of voice warning system unit; - replace the magnetic carrier and wash the magnetic heads; - test the output voltages of the voice warning system and record the voice messages. Check the parameters of ДИСС-15 Doppler navigational sys-	500	nance manual. ДИСС Maint
	- check the magnetic wire lay; - check the magnetic wire rupture detector and limit switches for operation; - check the engine governor; - check the automatic switch-on and switch-off of tape drive mechanism. Check the parameters of PИ-65Б voice warning system: - installation of voice warning system unit; - replace the magnetic carrier and wash the magnetic heads; - test the output voltages of the voice warning system and record the voice messages. Check the parameters of ДИСС-15 Doppler navigational system:	500	nance manual.
11O.30.00c	- check the magnetic wire lay; - check the magnetic wire rupture detector and limit switches for operation; - check the engine governor; - check the automatic switch-on and switch-off of tape drive mechanism. Check the parameters of PИ-65Б voice warning system: - installation of voice warning system unit; - replace the magnetic carrier and wash the magnetic heads; - test the output voltages of the voice warning system and record the voice messages. Check the parameters of ДИСС-15 Doppler navigational system: - secondary source supply voltages;	500	nance manual. ДИСС Maint
	- check the magnetic wire lay; - check the magnetic wire rupture detector and limit switches for operation; - check the engine governor; - check the automatic switch-on and switch-off of tape drive mechanism. Check the parameters of PИ-65Б voice warning system: - installation of voice warning system unit; - replace the magnetic carrier and wash the magnetic heads; - test the output voltages of the voice warning system and record the voice messages. Check the parameters of ДИСС-15 Doppler navigational system:	500	nance manual. ДИСС Maint

M.S. item	Name of equipment and description of maintenance operations	Intervals (flight hours)	Remark
110,30.00f	- frequency of generator tube;		
110.30.00g	- power of generator tube;		
110.30.00h	- response of receiving circuits;		
110.30.00i	- zero values of speed components;		
110.30.00k	- error of computation and indication of drift angle;		
110.30.00h	- error of computation and indication of ground speed;		
110.30.00m	- error of computation and indication of the run and lateral		
	deflection;		
110.30.00n	- calibration of the equipment in conditions SEA;		
110.30.00o	- connection of the ДИСС-15 equipment at angles;		
110.30.00p	- ДИСС-15 equipment operation in the MEMORY mode;		
110.30.00g	 accuracy of characteristics of output parameters from check panel; 		
110.30.00r	- bias voltage across modulation diodes. Electric equipment maintenance operations performed		
04.00.01	when replacing engines and main gear box		
24.00.01	Disconnect the electric wiring from electric units to be re- moved together with engine and secure the wiring so as it will not obstruct the removal.		
24.00.02	Having removed the engine, clean the electric wires, wire harnesses, heat-insulating coating, wire lugs and connectors of dirt.		
	Make certain of absence of damages and reliability of solder- ing of wire lugs, cleanliness of pins, sockets, and insulating blocks of connectors. Install blanks in all disconnected con- nectors to protect them from dirtying.		
24.00.03	After engine installation on the helicopter connect the electric wiring of removed electric units and wire harnesses to mating semi-connectors. Lock the connectors. Make sure of absence of electric wiring and electric wire harnesses insulation damages.		
24.00.04	Disconnect the electric wiring from electric units to be removed together with gearbox. Inspect the wire harnesses, wire lugs and connectors. Make certain of cleanliness of wiring and connectors, absence of overheating traces, corrosion and damages. Install the blanks in the disconnected connectors. After gearbox installation on the helicopter connect the electric wiring of removed electric units and wire harnesses to mating semi-connectors.		
24.00.05	Lock the connectors. Prior to CΓC-40ΠУ generator installation on the BP-14 gear-		-
	box remove the protecting band, inspect the generator and its brush assembly. Make certain of absence o damages of brush assembly. Measure the length of brushes. Fit the protecting band. When the length of brushes is 18 mm or less, perform maintenance of CΓC-40ΠУ generator.		
24.00.06	When testing the engines check the operation of electric units of engines and gearbox.		
	Instrumentation maintenance operations performed when replacing engines and main gear box		
34.00.01	Disconnect the electric wiring of instrumentation and anti-icing equipment and secure it on the structure so that it will not obstruct the removal of engine and gearbox.		
34.00.02	After removal of engine and main gear box inspect the electric wiring and connectors of instrumentation. Make certain of cleanliness, absence of damages of electric cables insulation, pins, sockets and insulating blocks of connectors, as well as absence of traces of corrosion and overheating. Install the blanks in the disconnected connectors.		
34.00.03	Inspect the transmitters of tachometers and make sure of absence of their damages. Install the removed transmitters of tachometers and inductance transmitters on the newly mounted engine and main gear box.		*****

M.S. item	Name of equipment and description of maintenance operations	Intervals (flight hours)	Remark
34.00.04	After installation of engines and main gear box on the helicopter fasten and connect the electric wiring to the units and secure the connectors.		
34.00.05	When starting and testing the engines check the operation of engine, transmission, hydraulic system and main gear box checkup instruments.		
34.00.06	Having tested the engines, inspect the instrumentation, elec- tric wiring and connectors of instrumentation and fire-fighting equipment on the engines and in the engine compartments.		

5. MAINTENANCE DURING STORAGE

M.S. item	Name of equipment and description of maintenance operations	Intervals			
		30±5 days		6 months ±1 month	Remark
	Inspect the helicopter equipment and avionics in the volume of OB-1 maintenance check.	+	+	+	-3555414111 11 - 14
24.30.00	Remove the storage batteries and send them for storage at a battery-charging facility when placing the helicopter for storage.		+	+	
24.50.00b	Inspect the distribution devices and equipment mounted inside them.	-	*	+	
	Check the condition of silica gel dehydrator in the PB-3 receiver-transmitter.	•	+	+	



6. SEASONAL MAINTENANCE

M.S. item	Name of equipment and	Maintena	nce check	Remark
W.O. Item	description of maintenance operations	О3П*	влп*	Kemark
	Combine these operations with the regularly scheduled maintenance check.	+	+	
30.60.00e	Measure the values of resistance of heating elements and insulation of heating elements of main and tail rotor blades. Check the presence of sealing rings in the connectors of main rotor blades and slip ring.		+	
30.40.00f	Check the adjustment of glass anti-icing system temperature regulator.	+	+	
	Check the adjustment of РИО-3 ice detector using TПС-3 instrument.	+	+	
26.20.00f	Check the mass of charge of OY-2 fire extinguisher.	+	+	
26.20.00e	Check the integrity of electric circuits up to the squib. Replace the squibs in the УБШ-4-4 fire extinguishers.	+	-	
24.40.00	Inspect the following units of KO-50 kerosene heater:	+	-	
	- electric motor of 748A fuel pump;			
	- starting coil K∏-4716 or KB-112;			
	- thermoswitches 2416-17,5; 1374A and 2416-4;			
	- electric filters Φ-70 and Φ-100.			
33.40.00	Clean the internal surface of light filter of MCЛ-3 anti- collision light. Blow through the inner cavity of the anti- collision light with compressed air, renew the grease ЦИАТИМ-221 on the gear, which transmits rotation to the platform with lamps.		-	
	Send the P-855YM radio station for maintenance and check for compliance with appended Instructions on checking instruments and sets.		+	

**ОЗП - automn/winter check ВЛП - spring/summer check



7. SPECIAL MAINTENANCE

M.S. item	Name of equipment and description of maintenance operations	Remark
	Maintenance operations performed after helicopter flying in turbu- lent atmosphere or after hard landing	The volume of operations may be changed by authorization of
	Inspect and make sure of:	commission, responsible fo
	- absence of mechanical damages of units, assemblies and antennas;	helicopter technical condition
	 serviceability of shock-mounted frames and intactness of shock absorbers; 	determination, depending or particularities of specific case.
	 intactness of electric wires, security of connection of connectors to the units and assemblies and intactness of their locking; 	
	 good connection of rubberized-fabric hoses of pipelines to the appropriate barometric instruments and units. 	
	- air-tightness of total and static pressure systems;	
	- good connection of pipelines and units of fire extinguishing system.	
	Maintenance after flying in the area of thunderstorm activity	
	 check the operation of magnetic compass and inductance transmitter of compass system; 	
	 in case of discrepancy in readings of magnetic compass and compass system with tolerances, given in correction diagrams, check the degree of helicopter parts magnetization near the compass and compass sys- tem transmitter; 	
	 in case of necessity determine and eliminate the deviation of magnetic compass and compass system under direction of flight navigator; 	200
	 inspect the antennas, antenna leads and HF cables in the areas of connection to antennas, bushing insulators and equipment; 	
	- remove the 5-OM unit of "020" item. Check the condition of SHF discs 2A509. Install the unit in the helicopter.	

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SUPPLEMENT 1

LIST OF ITEMS TO BE SEALED:

- 1. Switch "БЕДСТВИЕ" (Emergency) on the unit No. 8 of "020" item.
- 2. Screws of compensator of KN-13, KM-8 compass.
- 3. ОУ-2 and УБШ-4-4 fire extinguishers.
- 4. Pressure screws of 1-4-4 fire extinguishers valves.
- 5. Switch "OFOPEB" (Heating) of PNO-3 ice detector in "ABTOMAT" (AUTO) position.
- 6. Switch of "81" item.
- 7. Unit Д-62 from ДАК-ДБ-5BK set.
- 8. Change-over valve of Pitot static system in position "ОБЪЕД." (COLLECTIVE)
- 9. Switch "Сеть на ВУ" (ССТ ТО RECT) in "ОТКЛ" (OFF) position.
- 10. Switch "ДУБЛИР. ГЍДРОСИСТЕМА" (HYD SYS AUX) in "ВКЛ" (ON) position.
- 11. KC-0,5 cassette of CAPΠΠ-12 system.
- 12. П-503Б (MC-61) voice recorder.

SUPPLEMENT 2

LIST OF ENTRIES IN THE WORK ORDER AND LOGBOOKS (CERTIFICATES) WHEN PERFORMING SCHEDULED MAINTENANCE OF HELICOPTER EQUIPMENT AND AVIONICS:

No.	Contents of entry	Entry to be made in		
		Work order or labora- tory (workshop) regis- try	Logbook	
1,	Replacement of helicopter equipment and avionics units, specifying the cause of replacement as well as serial numbers of removed and installed units.	+	+	
2.	The length of generator brushes:			
	 on measuring the length of brushes 	+	= = =	
	- on brushes replacement	+	+	
3.	The length of MB-1200 electric motor brushes:			
	- on measuring the length of brushes	+		
	- on brushes replacement	+	+	
4.	The length of inverters brushes:		HI-DUNIES	
	- on measuring the length of brushes	+	9/1	
	- on brushes replacement	+	+	
5.	Checkup of units and systems with unsealing (according to List of helicopter equipment and avionics units to be sealed).	+		
6.	Removal and checkup of fire extinguishers ОУ-2, УБШ-4-4.	+	+	
7.	The operation performed in accordance with directives of Air Transport Department (specifying their number and date of validation) and industrial bulletins (specifying their number).	+	+	
8.	Nature and causes of troubles, revealed during flight and maintenance.	+		
9.	Replenishment of CCC-40ПУ generator bearings grease, specifying the amount of grease	+	+	
10.	Checkup of operation of Π-503 in the helicopter on replacement of sound recording medium	+	/ B 0	
11.	The length of brushes of ДВ-302T electric fan of PH-600 air- cooling.			
	- on measuring the length of brushes	+	-	
	- on brushes replacement	+	+	

SUPPLEMENT 3

LIST OF THE SINGLE-TYPE INSTRUMENTS AND UNITS, THE LOCATION OF WHICH IS SPECIFIED IN THE ITEM CERTIFICATE AND HELICOPTER LOG BOOK

No.	Designation	Туре	Qty	Form of entry on equipment	
1	Gyro horizon	АГБ-ЗК	2	Pilot, co-pilot	
2	Altimeter	ВД-10ВК	3	Pilot, co-pilot, cargo cabin	
3	Vertical-speed indicator	BAP-30MK	2	Pilot, co-pilot	
4_	Pitot tube	ПВД-6М	2	Port side, starboard	
5	Speed indicator	УС-450К	2	Pilot, co-pilot	
6	Indicator	УГР-4УК	2	Pilot, co-pilot	
7	Electromagnetic brake	ЭМТ-2М	3	Longitudinal, lateral and tail rotor control	
8	Hydraulic actuator	КАУ-30Б	3	Longitudinal, lateral control, Main rotor collective pitch	
9	Generator	СГС-40ПУ	2	First generator, second genera-	
10	External tank pump	ЭЦН-91Б	2	LH external tank, RH external tank	
11	Air selector valve	1919T	2	LH engine, RH engine (LH dust- protection device, RH dust- protection device	
12	Fire extinguishers	УБШ-4-4	4	Automatic and manual dis- charge	

NOTE: The entry on item location should be made in the section "Historical record" of item certificate at each installation of the item at the factory and in course of operation.

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