



RUSSIAN FEDERATION
MINISTRY OF TRANSPORT OF RUSSIAN FEDERATION
FEDERAL AIR TRANSPORT AGENCY
AIRWORTHINESS DIRECTIVE

18 of January, 2022

No. 2022-AHCAT, AHCAT-K-02

Applicability – ANSAT helicopters (ANSAT, ANSAT-GC models), ANSAT-K helicopters (ANSAT-K model) and their modifications

Designer's State - RUSSIAN FEDERATION

Corrective actions stated in the present Airworthiness Directive are mandatory. None of the operators is allowed to operate the aircraft covered by present Airworthiness Directive otherwise than according to the requirements of present Directive.

In connection with the aviation accident occurred on 23.09.2021 with the ANSAT helicopter RA-20014 (serial No. 33090), which made a hard landing due to decrease in control margins in directional control channel, which resulted in uncontrolled left rotation of the helicopter during the approach, and detection of destruction of the bearing 6-3056204 ETY100/3 of the tail rotor sliding bar, as well as based on Technical Decision of JSC "Kazan Helicopters" No. 3/144-2021-KB3 Revision 2 dated 17.01.2022, in order to ensure airworthiness of the ANSAT helicopters (ANSAT, ANSAT-GC models), ANSAT-K helicopters (ANSAT-K model) and their modifications being in operation, the following is

PROPOSED:

1. Operators of ANSAT helicopters (ANSAT, ANSAT-GC models), ANSAT-K helicopters (ANSAT-K model) and their modifications serial Nos. 33013, 33014, 33027...33135 to perform one-time replacement of sleeves 333.3500.0015 with serial numbers up to No. 2401 with new ones (pos. 16 in Appendix 1 to the Technical Decision of JSC "Kazan Helicopters" No. 3/144-2021-KB3 Revision 2 dated 17.01.2022), when performing regular scheduled work on the replacement of bearings 6-3056204 ETY100/3 (6-3056204Y ETY100/3) in accordance with the Airworthiness directive No. 2021-AHCAT, AHCAT-K-04 dated 21.10.2021 and Airworthiness directive

No. 2021-AHCAT-AHCAT-CK-05 dated 03.12.2021. Replacement of sleeves 333.3500.0015 with serial numbers starting from No. 2401 should not be performed.

2. Inform JSC "Kazan Helicopters" and Federal Air Transport Agency about results of completion of works per p.1 of present Airworthiness directive.

3. Airworthiness directive comes into force from the date of its issue and becomes invalid upon completion of works per p.1.

Appendix: Technical decision No. 3/144-2021-KB3 Revision 2 dated 17.01.2022,
2 sheets;

Deputy Director General

п. п.

A.A. Novgorodov

Верно. Начальника УИЛГ ВС
И.В. Пономарев



APPROVED BY
Deputy managing director –
Head of design
JSC “Kazan Helicopters”,
A.O. Garipov

TECHNICAL DECISION No. 3/144-2021-KB3
on continued airworthiness of ANSAT, ANSAT-K helicopters and their modifications
in connection with failure of the bearing 6-3056204 ETY100/3 of tail rotor sliding bar
Revision 2

In accordance with the Conclusion No. 10137-И/103 "Results of special investigation of the bearing 6-3056204 of tail rotor sliding bar 333.3520.1000-05 of the ANSAT helicopter RA-20014 in connection with the aviation incident occurred on 23.09.2021 (failure of directional control during landing)", approved on 03.12.2021 by the director of the Federal Autonomous Institution of the Aviation Register of the Russian Federation, a discrepancy was revealed in the design documentation of the sleeve 333.3500.0015 (mounting surface for the inner ring of the bearing and the diameter for the installation of the tail gear rod).

In order to ensure the airworthiness of the ANSAT, ANSAT-K helicopters and their modifications, which are in operation, the following decision was made.

DECISION:

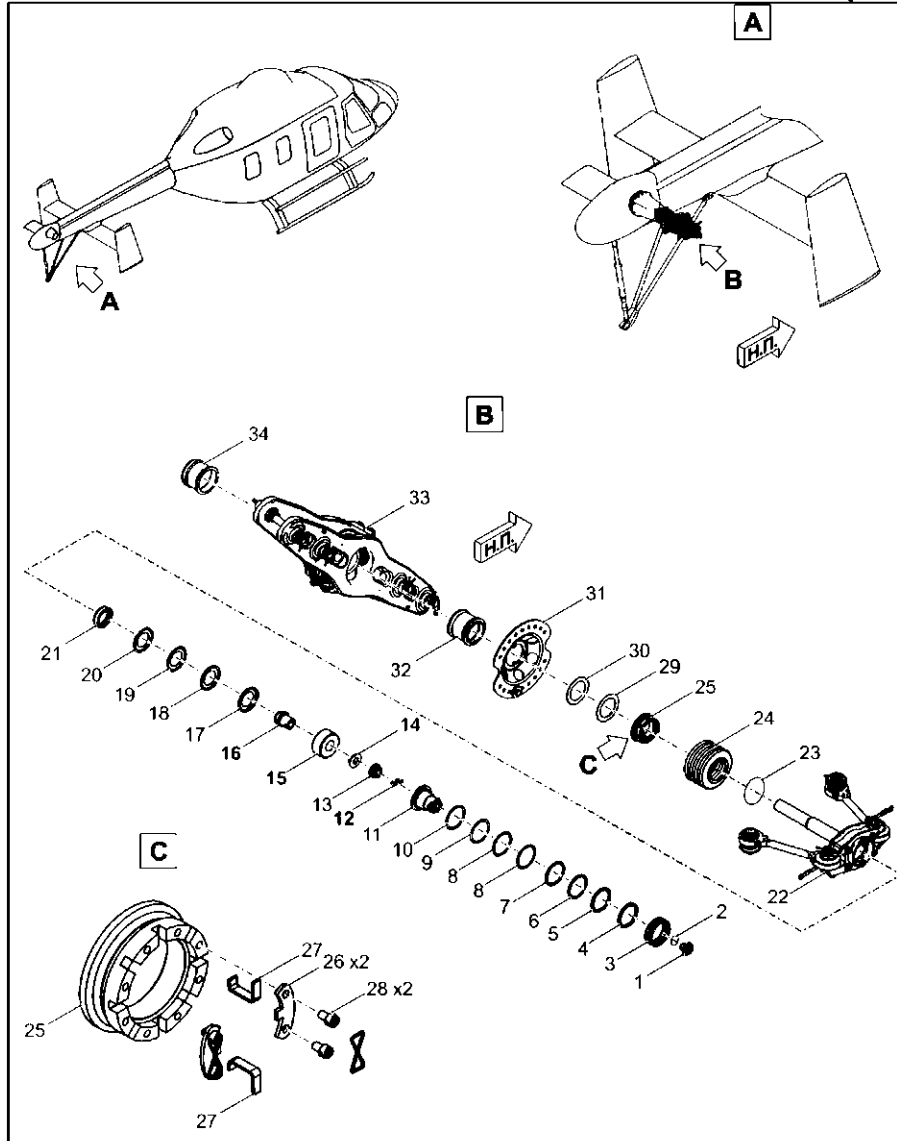
When carrying out the works in accordance with the Airworthiness directives No. 2021-AHCAT, AHCAT-K-04 dated 21.10.2021 and No. 2021-AHCAT-CK-05 dated 03.12.2021 on the ANSAT helicopters (ANSAT, ANSAT-GC models), ANSAT-K helicopters and their modifications up to and including serial No. 33135:

1. During the next works on replacement the bearing 6-3056204 ETY100/3 (6-3056204Y ETY100/3) in accordance with the task cards 064.20.00c, 064.20.00d of Maintenance manuals 338.0000.00PЭ, 343.0000.00PЭ of the ANSAT helicopter (ANSAT, ANSAT-GC models, respectively), in accordance with the task cards 065.20.00c, 065.20.00d of Maintenance manual 340.0000.00PЭ (for AHCAT-K helicopter), replace the sleeve 333.3500.0015 (pos. 16 in Appendix 1) with the new one. Replacement of the sleeve is carried out on one-time basis, the sleeve is provided by JSC “Kazan Helicopters” at the expense of its own funds upon customer’s request. The removed sleeves should be sent back to JSC “Kazan Helicopters”.

2. Sleeves 333.3500.0015 with serial numbers 2401 and further, provided by JSC "Kazan Helicopters" to operators as technical assistance within the frame of works under Airworthiness Directives No. 2021-AHCAT, AHCAT-K-04 dated 21.10.2021 and No. 2021-AHCAT-CK-05 dated 03.12.2021, are not subject to replacement.

3. Inform JSC “Kazan Helicopters” and Federal Air Transport Agency about results of works carried out in accordance with p. 1.

List of parts and assemblies of tail rotor hub



Pos.	Qty	Designation	Description
1	1	333.3500.0014	Plug
2	1	017-020-19-2-043 OCT1.00980-80	Ring
3	1	331.3500.0018	Nut
4	1	333.3500.0033-11	Washer
5	1	333.3500.0033-05	Washer
6	1	333.3500.0033-07	Washer
7	1	333.3500.0033-09	Washer
8	2	333.3500.0033-03	Washer
9	1	333.3500.0033-13	Washer
10	1	333.3500.0033-15	Washer
11	1	333.3500.0041	Cover
12	2	333.3500.0032-05	Lock
13	1	333.3500.0017	Nut
14	1	333.3500.0022	Locking washer
15	1	6-3056204 ETY100/3	Bearing
16	1	333.3500.0015	Sleeve
17	1	333.3500.0037-09	Washer
18	1	333.3500.0037-07	Washer
19	1	333.3500.0037-05	Washer
20	1	333.3500.0037-03	Washer
21	1	333.3500.0020	Washer
22	1	333.3520.1000-05	Sliding bar in assembly
23	1	023-026-19-1-061-OCT1.00980-80	Ring
24	1	333.3500.0004	Cover
25	1	333.3500.0005	Nut
26	2	333.3500.0006	Retainer
27	2	333.3500.0032-03	Lock
28	4	3-5КД-OCT1.31522-80	Screw
29	1	333.3500.0031-05	Washer
30	1	333.3500.0031-03	Washer
31	1	333.3500.0012	Disc
32	1	333.3500.0003	Spacer sleeve
33	1	333.3530.2000	Tail rotor hub
34	1	333.3500.0010	Spacer sleeve