

## YAK-50 SERVICE BULLETINS

A full Yakovlev Design Bureau list

Between the designer, the Yakovlev Design Bureau, and the certification body, the Soviet Air Force, the Service Bulletins produced by the former, automatically gained status of Airworthiness Directives once approved by the latter. Which means that all the bulletins have been mandatory for all the serial numbers concerned? They were implemented during the certified factory overhaul provided for the Yak-50 only by the Shakhty Overhaul plant, and by Arsenyev factory, for the new aircraft. Since only a few Yak-50 were overhauled at all, the serial number will give you a reliable insight into the present aircraft status.

N°	Summary	Serial N°s concerned
1E	Repair of the battery housing	
2DK	Replacement of thermal valve by pressure-reducing valve in the oil radiator	0101 - 0810
3DK	Strengthening of the housing of the fin rear spar	0102 - 0604
4DK	Replacement of the tail skid	
5DK	New design of the jackets of cable commands on the cabin floor	
6DK	Strengthening of the web of the wing's rib N° 4	0102 - 0810, exc. 0109, 0110, 0202, 0204, 0206 - 0208, 0302, 0305 - 0309, 0606, 0607, 0609, 0610
7DK	Strengthening of fastening of the shoulder harness	0102 - 0710
8DK	New fuel tank caps	0102 - 0801, 0803
9DK	New ventilation system	0102 - 0306
10DK	New angle bracket of the compressor duct fastening	0102 - 0605
11DK	Strengthening of the skin between stringers NN 6, 7 and frames NN 0, 1	0102 - 0810
12DK	New fuel tank and fuel level gage SUT 4-1	0102 - 0810
13DK	Strengthening of the frame web and of the manhole rib	0102 - 0810
14DK	Strengthening of the aileron hinge bracket on the rib N 9 New bushing on the rib N 13	0606 - 0810
15DK	Strengthening of the elevator hinge bracket fastening to the stabilizer	0102 - 0810, exc. 0202, 0204, 0203 - 0208, 0302, 0305 - 0307, 0606
16DK	Strengthening of the main spar	0101 - 1106
17DM	Modification of ignition system due to the introduction of magneto M9F instead of M9-25M	
18DK	Strengthening of the pilot's seat fastening, new harness	0102 - 0810
19DK	Improvement of the dust filter in the carburetor intake Strengthening of the air heating intakes in the carburetor	0102 - 0810, 0910

20DK	New coupling 506100-02	0102 - 0810
21DK	Repairing and strengthening of the fuselage spar	0102 - 1106
22DK	Strengthening of the fuel tank bottom	0102 - 0810
23DK	New design of the gear housing	0102 - 1010, exc. 0103, 0107, 0307, 0809, 0903
24DK	Strengthening of the frame N 3 web	0501 - 1007
25DK	Protection of the power cable EG-1 against short circuit	0102 - 1106, exc. 0103, 0107, 0307, 0809, 0903
26DK	New strengthened fastening of the radio tension transformer	0102 - 1010, exc. 0103, 0107, 0307, 0809, 0903
27DK	New strengthened bracket of the G-meter fastening	0901 - 1106
28DK	Improvement of the current charging device	0102 - 1210
29DK	Strengthening of the engine bulkhead	0102 - 1204
30DK	New R2 rotation regulator bracket	0102 - 0810, exc. 0103, 0107, 0307, 0510, 0809
31DK	Introduction of the damper bushings in fastening of the electric panel 50-7207-70CB	0201 - 1203
32DK	Strengthening of the frame N 7	0101 - 1106
33DK	New brackets 500110-58	0101 - 1110, 1202
6328/202 (331DK)	Strengthening of the bracket of the main gear shock absorber New design for the tail gear shock absorber charging	
34IK	Increasing of the engine mount ring calendar	all
35DK	New strengthened bracket of the aileron commands	0101 - 1305
36DK	Strengthening of the carburetor heater box	0102 - 1210
37DK	Strengthening of the wing main spar near the rib N 1	0102 - 1310
38DK	Modification of fastening of the PAG-1F transformer	0102 - 1205
39DK	Modification of the exhaust pipes assembly Improvement of reliability of the vent tank	1105 - 1304
40DK (add. to 14DK)	Strengthening of the aileron's hinge bracket on the rib N 9	0102 - 0605
41DK (add. to 16DK)	Replacement of locking nuts by rivets	0102 - 1106
42E	Control of the rivet fastening of the wing skin to the spar between ribs NN 1 and 7	all
43DK	Replacement of the rivets on the wing spar between the ribs NN 1 and 7 and the webs 502040-00, 502050-00	0102 - 1409
44DK	New return valves 998A4 in the pneumatic system	0102 - 1404
45DK	New coupling 506100-02	0102 - 1510
46DK	New elevator lip flanges	0102 - 1410, exc. 1205 - 1208

47DK	Strengthening of the fuselage near the main spar	0102 - 1610
48DK	Periodic magnetic tests of the wing attachment fittings and replacement if necessary	0102 - 1106
50DA	Inspection of the oil tank conformity to the design	0102 - 1607
51DK	Improvement of the engine mount rubber pads	0102 - 1606
52E	Inspection of the oil tank intake	0102 - 1607
53DK	New bolts of the wing fastening to the spar	0102 - 1706
54R	Changes in spare parts catalogue, production documentation	
55DM	New bolt of fastening of the brake switch and new bracket 505101-34	0201 - 1905, exc. 0306, 0606
56E	Locking of the fuel tank cap	all
57DK	Introduction of the locking nuts in the fastening of the engine command rods	0201 - 1902
58E	Modification of the air pipes drainage procedure in the maintenance manual	all
59DM	Introduction of the flight recorder	0201 - 1807
60DK	New oil dilution valve jet	0201 - 1902
61DA	Strengthening of the wing main spar between the ribs NN 1 and 2. Marking of the wing near the ribs NN 1 and 2	0102 - 2007
62DA	Canceling of the marking of the air systems couplings	0201 - 2004
63DK	Introduction of the restrain bushing on the pedals	0201 - 2007
64BU	Introduction of the aileron compensators	On demand
65DK	Strengthening of the frame N 12 near the stringer N 7 opening	0201 - 2104
66BE	Modifications in the maintenance manuals	
68BU	Introduction of 12-ASAM-23 battery	0201 - 2304
69BR	Modifications in the overhaul documentation	all
70BE	Modifications in the maintenance manuals following the 68BU	all
71BE	Modifications in the maintenance manuals	all
72BU	Locking of the emergency gear valve	all
73BU (add. to 68BU)	Adjustment of the new battery mount	0201 - 2304
74BU	New disposition of flight recorder switches	1808 - 2803
75BU	Locking of the adjustment screws of the gear extended position	0201 - 2710
76BU	Improvement of the harness	0201 - 2902

77BE	Modifications in the maintenance manuals	all
79	Strengthening of the fuselage main spar	1201 - 2806
80BR	Introduction of calibrated tightening of the nuts of the pitch command brackets	all
81BE	Modifications in the maintenance manuals	all
82BE	Modifications in the maintenance manuals following the introduction of the BRIZ radio	all
83BE	Modifications in the flight manual concerning the gear extension / retraction procedures	all
84BE	Modifications in the maintenance manuals, following the introduction of the anti-theft system	1307 - 3203
85BU	Introduction of additional locking of the bolts in the elevator and rudder commands	1812 - 3110
86BE	Modifications in the maintenance manuals	

Bulletins NN° 66BE, 70BE, 71BE, 77BE, 81BE, 82BE, 83BE, 84BE, 86BE introduced a series of changes in maintenance procedures reflected in the official maintenance manuals.

Note:

BA or DA– bulletins introduced to correct design and/or production flaws which caused interruption of the type's service  
BD or DK – bulletins introduced to correct design and/or production flaws which did not cause interruption of the type's service  
BU or U – bulletins introduced to improve the design, enhance reliability and/or increase lifetimes  
BE or E– bulletins introducing changes in operation documents such as lifetimes, TBOs, calendars, etc  
BR or R – bulletins introducing changes in overhaul/repair documents