

## YAK-52 SERVICE BULLETINS

A full Yakovlev Design Bureau list

Initially, there was no difference between the Service Bulletins as introduced by the Yakovlev Design Bureau and Airworthiness Directives as approved and made mandatory by the Certification Body, in case of Yak-52, the Soviet Air Force. Both were elements of the same logical chain, and all bulletins were automatically implemented with the whole fleet concerned. To date during the certified factory overhaul (provided today only by Shakhty Overhaul Plant), the aircraft SB status is checked against the FULL list.

N°	Summary	Serial N°s concerned
1DK	Bonding of the elevator and the engine lower cowling	780102 - 790404
2DK	Replacing of the soldered oil tank by the welded one	780102, 790105, 790203, 790406
3R	Improvement of the system of the carburetor heating	780103 – 811215
4R	Improvement of cooling of the compressor	780103 – 800815
6DK	New KP-4716 starter's solenoid	790105 – 800605
7DK	Removal of the switch of the generator command selector between the front and the rear cockpits	780102 – 800815
8R	Strengthening of the fix of the brake handle	780102 – 801103
9DK	Strengthening of the fin skin	780102 – 811212
10R	Enhancement of engine cooling efficiency	780103 – 800815
11E	New life time for fuel tanks	800802 – 801006
12R	Improvement of pneumatic system	780102 – 800815
13BD	Modification of the current inlet	780102 – 844415
15E	New life time for the propeller	all
17DM	Replacement of the over-voltage switch AZP-1MB by AZP-A2	780102, 780103 790105 – 811707
18DA (and 28BA)	Strengthening of the fin's base. Riveting of the elevator's counter weight instead of bolting	780102 – 833805
19R (and 52R)	Introduction of the battery 12-ASAM-23 instead of "Verli"	780102 – 822714
21E	New life time for the engine mount ring	780102 – 821915
28BA	Addition to N°18DA	
29BE	Heavy spar and new wing attachments introduced during the manufacture	
30BD	New pitch lever 526500-36	780103 – 844415
32BU	New switchboard bus	780102 – 833715
34BD	New intake coupling of the fuel pump	780102 – 844915
36BD	New bracket of the R2 revolutions regulator	780102 – 855707

37BD	New aileron suspension brackets	780102 – 855615
38R	Modification of the main undercarriage spindles	780102 – 855815
39DK	New trim tab wheels in both cabins	780102 – 844915
40DK	New markings of the Pitot system pipes	780102 – 855315
41R	Removal of the pneumatic bloc AD-50 and redesign of pneumatic system elements on the frame N° 0	780103 – 855215
42DK	Enhanced protection of the electric wiring near the fix of AZRGK-10 switch at the frame N°2, right side	780102 – 855607
44R	New rudder trim tab	780102 – 856105
45DK	Strengthening of the cooling pipe of the compressor and of its fix to the engine mount	780102 – 855815
47R	New fastening clamp of the oil system vent tank	780102 – 855815
48R	New filter box in the carburetor air intake	780102 – 855915
49R	Addition of the third support of the fuel tanks	780102 – 856215
52R	Additional to N°19R	
53BU	New design of control sticks in front and rear cabins New rear command axle bearing bracket	780102 – 889715
54R	Introduction of locking washers in the controls	780102 – 866415, 866501 – 888615
55BU	New wires from the P-1 sensor to the cylinder temperature indicator	780102 – 867315
57DK	New exhaust collector and cockpit heating	780103 – 866515; 866601 – 867315
58BD	Improvement of the fastening of the engine commands' stiffening	780102 – 866415
59R	Strengthening of the wing attachment fittings	780102 – 866415
60R	Introduction of the heavy main spar	780102 – 866415
62DK	Improvement of the fastening of the aileron counter weight	780102 – 866915
66R (and 88BD)	Introduction of 8,5 mm bolts of the wing fastening on the frames NN° 3 and 8	780102 – 866515
67R	Introduction of the clamp fastening of the right intake pipe to the right nozzle of the exhaust collector	780102 – 866915
68BD	Braking of the handle of the pedal adjusting screw	780102 – 866115
69BU	Strengthening of the support of the PT-200C transformer	780102 – 877515
70BU	Improvement of the fastening of the rudder counter weight	780102 – 877615
71BD	New oil draining tank	780102 – 877615
72BD	Check of the hinge in flaps controls	780102 – 877315
74BU	Installation of screw brackets limiting the oil cooler and chatter control levers in the front cockpit	780102 – 834015
75BU	Strengthened aileron hinge bracket and rib N° 7	780102 – 877515

76BD	New ball joints of the engine control system	780103 – 877503
78BD	New oil filter assembly	780102 – 888715
80BD (add. to 59R)	Strengthening of the rear web of the right wing between the ribs NN° 2 et 2A	780102 – 888915
81BD	Strengthening of the support of the magnetic compass and of the G-meter in the front cockpit.	780103 – 8910015
82BD	Strengthened rudder hinge bracket	780102 – 889015
83BD	Strengthening of the rear ribs of the elevator	780102 – 888915
84BD	Protection housing of the tension regulator R27	780102 – 889009
85BU	Improvement of the tightness of the exits of the flap cylinder rods	780102 – 888713
87BD	Strengthening the rear spars	780102 – 866415
88BD	Same as 66R	780102 – 888915
89BD	Strengthening of the fuselage spar	780102 – 889115
90BD	Removal of the artificial horizons and of the main directional gyro for aerobatic use	At operator's discretion
92BD	Strengthening of the aileron's rib N° 1	780102 – 889301
93BD	Elimination of friction between the elevator's counter weight and the rib N° 3	780102 – 889015
94BU	Introduction of the Ø 1.2 mm chocks instead of Ø 0.5 mm in the undercarriage extension system	780102 – 889009
96BE	Increasing time before the first overhaul to 600 hours	
97BU	New harness with the pin lock	844701 – 9010815
99BD	Strengthening of the cooling pipes of the generator and of the compressor	780102 – 889915
100BD	Wire locking of the nut of fastening of the cowl flaps ring	780102 – 899515
101BD	Strengthening of the support of the circuit breaker AZP-A2 on the frame N° 0	780102 – 899515
103 BD	Separate draining of fuel tanks	780102 – 899715
105BE	Change of command cables tension	780102 – 899615
106BD	Improvement of the cabin air heater	780102 – 899815
107BD	Strengthening strap on the lower spar flange	780102 – 9111215
108BD	New ball locks in the undercarriage jacks	780102 – 9111215
109BE	Increasing the undercarriage service life to 6000 landings	780102 – 899815
111BD	Strengthening of the frame N° 0	780102 – 9010615
112BD	Modification of the fastening of the engine command rods on the frame N° 0 and the engine cover plate	790203 – 9010515
113BD	Modification of sliding canopy parts and of the rail	All
115BE	Increasing the undercarriage service life to 7000 landings	All

Bulletins NN° 25E, 86BE, 73BE, 86BE, 91BE, 95BE, 105BE, 110BE introduced a series of changes in maintenance procedures and manuals which are available with certified facilities.

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