

*European Aviation Safety Agency*

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**EASA**  
**SPECIFIC AIRWORTHINESS**  
**SPECIFICATION**  
**for**  
**YAKOVLEV YAK-18T**

This Specific Airworthiness Specification is issued in accordance with Regulation (EC) 216/2008 Article 20(1)(b). This document is generic and it should be read in association with any Airworthiness Approval Note for the approval of Flight Conditions for any aircraft issued with an EASA Permit to Fly prior to 31 October 2008, which is specific to a particular serial number. In the event of conflict, please contact EASA: [general.aviation@easa.europa.eu](mailto:general.aviation@easa.europa.eu).

There is no valid EASA Type Certificate for this aircraft type.  
The organisation responsible for technical issues and support for the aircraft is the

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Separately, the Hungarian Civil Aviation Administration granted the Yak-18T a Hungarian Type Certificate in September 1999, No. 21ЯK18.

## **SECTION 1: Aircraft Design Definitions**

### **1.1 General**

Aircraft built to conform to Russian Civil Aircraft Norms of 13/10/1967.

#### 1.1.1 Certification Basis

The aircraft was certificated to Russian Norms (as above), in addition specific list 'technical requirements' of aircraft, which is agreed by the Deputy Civil Aviation Minister of the USSR and Yakovlev Design Bureau on 15/02/1968.

#### 1.1.2 Technical Characteristics and Operating Limitations

Engine	One Vedeneyev (OKBM) M14P (360 HP) or M14PF (400 HP) . 9 cylinder radial piston engine, which is geared and supercharged.
Fuel	To Russian standard B91/115 GOST 1012-72. Octane rating minimum 91.
Engine Limits	M14P Maximum permitted speed of rotation 2950 rpm (101%). Up to five minutes up to 99% (2890 rpm). Up to one minute at 101% (2950 rpm).  M14PF Maximum revolutions are 103% (3010 rpm) for one minute.
Propeller	The following propellers are approved: <ul style="list-style-type: none"><li>• V-530TA-D35 2-blade propeller manufactured by Speriot of Stupino, Russia.</li><li>• MTV-3-250-27 or -29 3-blade propeller manufactured by MT Propeller of Straubing, Germany.</li><li>• MTV-9-250-27 or -29 3-blade propeller manufactured by MT Propellers of Straubing, Germany.</li></ul> Diameter of V-530 propeller is 240 cm, and of MTV-3 and MTV-9 propellers is 250 cm.
Airspeed Limits	Refer to AFM (Please note that Flight Manual is one of three documents issued to support flight operations: Aircraft Flight Manual is for the trained pilot; Aircraft Description and Aircraft Operating Instructions serve for training and preparations for operation, which should be considered in their entirety for providing the appropriate information on the aircraft to cover flight operations).  Never Exceed Speed ( $V_{NE}$ ) 300 km/h
C. of G. Range	At Take-off Weight 1510 kg 13.0 – 22.0% AMC At Take-off Weight 1650 kg 13.0 – 26.0% AMC (Note that figures quoted on Yak 18T Flight Conditions approvals were in error)
Maximum Weight	Maximum Take-off Weight (Aerobatic Training) 1510 kg Maximum Take-off Weight (General Training) 1650 kg

Maximum Landing Weight	1650 kg
Manoeuvre Load Limits	at Take-off Weight 1510 kg +6,48g/-3,24g at Take-off Weight 1650 kg +5g/-2,5g
Number of Seats	Four (or five with three in the rear seat subject to C. of G. Considerations) (refer to AFM)
Maximum Baggage	Refer to AFM
Fuel Capacity	Standard aircraft – 90 litres in each wing, and 3 litre fuselage collector tank Additional fuel can be provided by a rear fuselage tank of 90 or 130 litres. Alternatively, additional fuel may be provided within the wings, either by increasing the individual tank size to 180 litres or by adding an additional 85 litre tank outboard of the existing tank.  In all these cases fuel management is automatic, with either the fuselage tanks, or the outer wing tank draining before the main wing tanks.
Oil Capacity	20 litres. Some aircraft are equipped with inverted oil system, in which case capacity is 16 litres for cruise flight and 10 litres for aerobatics
Control Surface Movements	Wing flaps                   Up 0°                   down 50° +3° -1° 30' Aileron                      Up 22° -1°           down 15° -1° Elevator                    Up 25° -1°           down 25° -1° Elevator trim tab       +/- 20° +3° 45' -3° 15' Rudder                     Left 27° -1°       Right 27° -1°
Tyre pressures	Main wheels: 3 kgf / cm <sup>2</sup> Nose wheel: 3 kgf / cm <sup>2</sup>
Stall Warning	The 18T is equipped with a CCKYA-1 stall warning system, with a light annunciator between -1° and +1°, and then a light annunciator together with audible signal from +6° to +11° angles of attack.
Equipment	The standard Yak-18T is equipped with the following equipment: Baklan 5 VHF ARK-9 ADF The IMK-IAZ gyro magnetic compass system. AGD-1K gyro horizon ZUE-53U turn indicator PP-5 radio altimeter However most aircraft in Western service have a range of Western avionics installed.
Technical Manuals	
Flight Manual	Руководство по лётной эксплуатации самолёта ЯК-18Т (Original Russian version, published by the manufacturer: Operating Handbook for aircraft Yak-18T).

Translations of manuals are permitted on an acceptance basis as agreed with the registering NAA on condition that the updated original Russian document is available as reference in order to eliminate distortions and misinterpretations of translation.

- Maintenance Schedule
- a) Yak-18T up to 35 series (inclusive) updated iaw. SB No. 255-BD: Maintenance Schedule Parts 1 and 2 (Reglament TO) for Yak-18T with M-14P engines, SM-2003 dated 30 May 2003, No 24.10-60GA.
  - b) Yak-18T, 36 series and previous versions if modified/inspected iaw. SB No. 261-BE-G (issued 06.05.2011): Maintenance Schedule Parts 1 and 2 (Reglament TO) for Yak-18T with M-14P engines, SM-2003 dated 30 May 2003, No 24.10-60GA and Part 3 (SM-2007).

Maintenance Instruction Технологические карты  
(Maintenance task cards/Technologicheskie karty)

## 1.2 Pertinent Data

Centre of Gravity The AFM gives a detailed analysis of Weight and Balance and C of G

Aerobatics and spinning are permitted at Take-off Weight 1510 kg and crew of 2 persons on board only. Inverted flight is prohibited unless this aircraft has been fitted with inverted oil and fuel systems.

Maximum permitted altitude 13,123 feet (4,000 meters), as the aircraft is not equipped with the oxygen supply system.

Placards All placards that are required by the Flight Manual must be installed in the appropriate locations

## 1.3 Service time limitations

- a) The Yak-18T has an initial Usable Service Time of 3,500 flight hours and 15,000 landings, irrespective of calendar time (i.e. no calendar life limit is established).
- b) Usable Service Time until first Major overhaul is 1,200 flight hours or 4,500 landings within 12 years calendar time limit, whichever comes first.
- c) Time between overhauls (TBO): Usable Service Time between next overhauls is 1,000 flight hours or 4,000 landings within 12 years Calendar Time whichever comes first.
- d) After initial release to service usable service [resources] and calendar times under b) and c) shall be confirmed by an on-condition structural inspection individually prescribed by the manufacturer at 1,000 flight hours or 3,750 landings within 4 years calendar time.
- e) The usable service [resources] and calendar times between consecutive overhauls under c) shall be confirmed by structural inspections prescribed by the designer [OKB] at 700 flight hours, 3,000 landings in 4 years after last overhauls under the following conditions:
  - a. The particular aircraft positively passed technical investigation in accordance with an individual S/N related designer [OKB] Programme;
  - b. Aircraft has been modified in accordance with attachment to designer [OKB] Programme;
  - c. Replacement of those components and instruments that used up their service time with reference to Attachment 4 of Maintenance Schedule (Reglament TO).

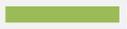
- f) The individual transfer to an on condition maintenance schedule without initial and follow-up overhauls is possible by replacing the overhaul with inspections TO-1000 and TO-2000 (MS-1000/MS-2000) in accordance with Maintenance Schedule for Yak-18T with M-14P engine (Reglament TO), released May 30, 2003 (Doc. No. 24.10-60GA) Part 3, for the series 36 aircraft directly and for the rest of the fleet if the aircraft has undergone a bridging inspection and maintenance (including modifications) as prescribed by the designer (OKB Yakovlev) in accordance with Service Bulletin No 261 BE-G.

#### 1.4 Life-Limited Parts

These lives must be incorporated in the maintenance schedule for the aeroplane.

Description	Part Number	Life Limit hr's/years
Propeller	V530TA-D35 MTV-9-B- C/CL250-27 / 29	500 hours / 6 years 1000 hours / 6 years
Main Air Bottle	LM-375a-11-50	-/5 check
Emg Air Bottle	LM-375a-3-50	-/5 check
Altimeter	ALT-20MBF-3	calibration every 2 years
Speed Indicator	US-450K	calibration every 2 years
G Meter	AM-9S	On condition
Vacuum Pressure Gauge	MV-16K	On condition
Cylindrical Thermometers	TTT-13	On condition
Fuel Pressure Transducers	P-1B	On condition
Oil Pressure Transducers	PM-15B	On condition
Bottles Pressure Gauge	2M-80K	On condition
Flexible pipes as fitted	various	10 yrs from date of installation – no more than 2 yrs after manufacture with no limit on flight hours
Undercarriage lifter, main gear	4114-00	on condition & check every 100 hrs
Undercarriage lifter, front gear	4214-00A	on condition & check every 100 hrs
Undercarriage locks, main	4115-00-1 4115-00-2	on condition & check every 100 hrs
Undercarriage lock, front	4215-00	on condition & check every 100 hrs

#### **SECTION 2: Airworthiness Directives (Service Bulletins)**

SB marked  by shading, are Mandatory.

Bulletin No.	Date of issue	Contents	Applies to a/c S/N	Performer	Performing term
1E	08.01.75	"Varly" battery body repair		Overhaul factory	Major overhaul
001-DM	31.10.75	Replacement of the SBSE-77 fuel meter with the SBES2077E fuel meter	0601-0504	Aircraft manufacturer	Major overhaul
002-DK	29.05.75	Replacement of the engine mount ring for the reinforced one	0601-2007	Aircraft/engine manufacturer	Major overhaul

003-DK	29.05.75	Replacement of the 4211-93 linkage in the 4211-90 damper	0601-0907	Aircraft manufacturer	Major overhaul
004-R	29.05.75	Replacement of undercarriage shock absorber pistons No.4111-14 and No.4211-18.	0601-0306	Aircraft manufacturer	Major overhaul
005-E	09.07.75	Manuals clarification	0101-1008	Maintenance organization	1975
006-DK	06.06.75	Replacement of landing gear uplock springs No.4115 and No.4215	0601-0906	Aircraft manufacturer	Major overhaul
007-DM	11.06.75	Replacement of the M-14 engine with the M-14P	0601-0204	Maintenance organisation	Major overhaul
008-DK	19.05.76	Fire shut-off valves sealing	0601-0106	Maintenance organization	If necessary
009-DK	29.07.76	Replacement of the edge former No.1014-07 on the wall of the rib No.4 in the wing center section	0601-2008	Aircraft manufacturer	Major overhaul
010-DK	13.09.76	Installation of the oil cooler winterisation blank No.6205-30A	0601-2008	Aircraft manufacturer	30.09.1977
012-DK	23.03.76	Reinforcement of the front spar wing attachment point	0601-1008	Aircraft manufacturer	Major overhaul
014-E	29.09.76	Manuals clarification	0101-0110	Maintenance organisation	31.01.1977
015-DK	29.04.77	1. Pitot attachment reinforcement 2. Replacement 7703-01	0601-0814 0601-0814	Aircraft manufacturer	Major overhaul
016-DK	13.07.76	Replacement of throttle lever attachment and friction unit	0601-2007	Aircraft manufacturer	Major overhaul
017-DK	23.11.76	Holes in the carburettor inlet choke	0601-0610	Aircraft manufacturer	Major overhaul
021-DK	29.03.77	Replacement of the trim tab and installation of additional balance weight on the elevator	0601-0812	Aircraft manufacturer	Major overhaul
022-DK	06.04.77	Replacement of the governor stop-screws bracket with the reinforced one	0601-2014	Aircraft manufacturer	Major overhaul
024-DK	06.04.77	Replacement of the collective tank drain valve No.6100-170 for the drain valve No.600500A	0601-1807	Aircraft manufacturer	Major overhaul
025-DK	29.04.77	Stabilizer reinforcement within the brace attachment area	0601-2013, 0401	Aircraft manufacturer	Major overhaul
026-DK	05.03.77	Fire wall reinforcement within the area of PK-45 attachment	0101, 0401, 0601-2012	Aircraft manufacturer	Major overhaul
027-DK	05.03.77	1. Enlargement of the aileron skin cutout 2. Installation of the additional access door in the cockpit floor	0101, 0401, 0601-2013 0601-2014	Overhaul factory	Major overhaul
028-DK	06.05.77	1. Installation of the plate on the wing center section leading edge 2. Replacement of three SP-1 AC circuit breakers with SP-2B AC circuit breakers	0101-2014 0101-0313	Aircraft manufacturer	30.12.77
029-DK	19.01.77	Landing gear inspection	0601-0807	Aircraft manufacturer	28.02.77
030-DK	26.05.77	Replacement of control surfaces attachment units with removable studs units	0101-2014	Aircraft manufacturer	Major overhaul
031-DK	25.03.77	Replacement of the oil cooler thermovalve with the reducing valve	0101-1212	Overhaul factory	Major overhaul
032-DK	29.04.77	Wing center section reinforcement (13 different modifications)	Refer to SB	Aircraft manufacturer	Major overhaul
033-DK	29.04.77	Replacement of the emergency air bottle supporting cup	0601-2013	Aircraft manufacturer	Major overhaul

034-DK	27.06.77	1. Fuselage modification for the installation of 7512-0 fans 2. Reinforcement of gills lip attachment 3. Reinforcement of gills vanes attachment points	0101-2010 0101-2009 0101-2013	Aircraft manufacturer	Major overhaul
035-DK	26.05.77	1. Improving AM-800K landing gear micro switch reliability 2. Replacement of gills control arm with the reinforced one 3. Improving of brake cable terminations 4. Adjusting air system reducing valve	0101, 0401, 0601-1009 0101, 0401, 0601-2015 0101, 0401, 0601-2010 0101, 0401, 0601-21921	Aircraft manufacturer Aircraft manufacturer Aircraft manufacturer Overhaul factory	Major overhaul
037-DK	01.06.77	Replacement of the stabilizer attachment fork-bolt No. 3000-02	0101, 0401, 0601-0614	Aircraft manufacturer	30.09.77
038-DK	01.09.77	Replacement of bushings No.4210-05 in upper part of nose landing gear bracing strut	0101, 0401, 0601-2014	Aircraft manufacturer	Major overhaul
039-DK	27.02.78	Replacement of 2KNR buttons with PK2S-2 buttons for "Radio" and "Intercom"	0101, 0402 0601-1415	Aircraft manufacturer	Major overhaul
040-DK	02.12.77	Installation of the reinforcement plate on the pilot's seat sliding rail	0101, 0601-2015	Aircraft manufacturer	Major overhaul
041-DK	09.02.78	Elimination of plays in rudder pedals mechanism	0102, 0101-2015	Aircraft manufacturer	Major overhaul
042-DK	01.09.77	Replacement of the wing center section diaphragm post with the reinforced post	0101, 0401, 0601-0614	Aircraft manufacturer	Major overhaul
043-DK	02.12.77	Reinforcement of the carburettor inlet pipe	0101, 0401, 0601-23617	Aircraft manufacturer	Major overhaul
045-E (6328/185-E)	17.07.78	Increasing the life time and calendar life for nose landing gear jack	All	Information bulletin	
046-DK	18.07.79	Fin reinforcement	0101, 0601-23961	Aircraft manufacturer	Major overhaul
047-E	23.03.78	Manuals clarification	0115-2015	Operator	31.08.78
048-DK	05.01.78	Replacement of elevator flanges for reinforced ones	0101, 0401, 0601-23961	Aircraft manufacturer	Major overhaul
049-DK	18.03.79	Replacement of aileron's and elevator's brackets due to the replacement of MP-5 alloy with the AL-19 alloy	0401, 0601-1006 Part 1: 0601-1706	Aircraft manufacturer	Major overhaul
050-DK	02.12.78	Installation of additional stabilizer attachment point	0401, 0601-1018	Aircraft manufacturer	Major overhaul
051-DK	24.05.78	Lower engine cowling reinforcement	0401, 0601-2016	Aircraft manufacturer	Major overhaul
052-DK	09.06.78	Reinforcement of cockpit ventilation pipes, compressor and generator cooling ducts	0101, 0401, 0601-2014	Aircraft manufacturer	Major overhaul
053-DK (6328/193)	25.04.78	Replacement of undercarriage jacks No.4114-00	Till 06067	Aircraft manufacturer	31.08.79
054-DK	06.02.78	Oil tank leaks elimination	0101, 0601-2014	Maintenance organization	If necessary
055-DK	08.02.78	Replacement of fuel tanks No.6101-001V with reinforced tanks No.6101-00D	0601-1111	Overhaul factory	30.12.79
057-DK	10.08.78	Clarification of bulletin No. 32-DK	0601-0415	Overhaul factory	On SB receipt

058-DK	02.12.78	Fuel system modification: 1. Replacement of the tee-piece No.6100-06 with the new shape tee-piece 2. Installation of the additional attachment point for the pipe No.6100-00	0601-23617  0601-2011	Aircraft manufacturer	30.12.79
059-DK	09.06.78	Installation of the IL-611-150 regulator in the charging device	0601-0516	Aircraft manufacturer	31.12.79
060-DK	09.06.78	Installation of plates on the wing center section skin near the landing flap	0601-21921	Aircraft manufacturer	Major overhaul
061-DK	10.08.78	Replacement of aluminium pipes with steel pipes	0101, 0401 0601-23015	Overhaul factory	Major overhaul
062-DK	30.11.78	Installation of the plate on the relay box	0101, 0401, 0601-23617	Aircraft manufacturer	Major overhaul
063-DK	10.04.79	Airplane modification for the installation of engine equipped with M9F magneto	0101, 0601-23516	Aircraft manufacturer	Major overhaul
064-IK	31.07.78	Introduction of new airplanes numbering	21517 and up	Aircraft manufacturer	permanent
065-DK	21.02.79	1. Fuel tank compartment inspection and replacement of bracket 2006-11 2. Undercut of the middle stringer of the removable panel of the tank compartment.	0601-1016  0601-30003	Aircraft manufacturer	In accordance with the plan of Civil Aviation Ministry
066-DK	10.08.78	Clarification of serial numbers of airplanes to be modified in accordance with bulletins 35, 43, 48, 51 DK	0601-2018	Refer to Service Bulletin	
067-DK (6328/220R)	05.09.78	Changing of the attachment of main landing gear shock absorber obturator	Shock absorber till 01.04.77	Overhaul factory	Major overhaul
068-DK	10.08.78	Extending the validity of the bulletin No.15-DK	1108-0814	Aircraft manufacturer	Major overhaul
069-E	08.06.79	Manuals clarification	0601-30016	Information bulletin	
070-E	21.02.79	1. Extending air bottles life time and calendar life. 2. Interchangeability of fuel meters No.SBES-2077A and No. SBES-207B	all  0601-0813	Information bulletin	
071-DK	29.06.79	Replacement of exhaust pipes made from Steel 20 with exhaust pipes made from 12H18N10T	0601-30928	Aircraft manufacturer	Second Major overhaul
072-DK	08.06.79	Modification of fuel breathing system in order to make separate breathing	0601-2007	Overhaul factory	Major overhaul
073-DK	22.09.79	Reinforcement of the elevator trim tab control system	0601-34032	Aircraft manufacturer	Major overhaul
074-DK	08.06.79	1. Installation of the additional pneumatic system non-return valve 2. Separation of emergency air system from the main one	0401, 0601-30216	Aircraft manufacturer	31.12.80
075-IK	31.01.79	Structural changes of airplanes	1313-23617	Information bulletin	
076-DK	12.03.79	Replacement of attachment bolts for wing center section fairing	0401, 0601-2014	Aircraft manufacturer	Major overhaul
077-DK	18.06.79	Installation of the plate on cockpit doors within the upper hinge area	0601-32816	Aircraft manufacturer	Major overhaul
078-DK	10.02.80	Replacement of the door lock fixing arm with the longer arm No.0134-07	0601-37290	Aircraft manufacturer	Major overhaul

079-DK	26.07.79	Installation of the plate on the shape No.0100-21-1,-2 on the 9th bulkhead	0601-32230	Aircraft manufacturer	Major overhaul
080-R	23.10.79	Addendum to „The Major Overhaul Manual“	all	Overhaul factory	On SB receipt
081-E	08.06.79	Manuals clarification	0601-32875	Operator	3 month after SB receipt
082-E	24.04.79	Increasing of the life time before the first major overhaul for lower arms of undercarriage bracing struts	all	Operator	
084-DM	21.10.82	Installation of SARPP-12K flight data registration system	0601-41817	Aircraft manufacturer	Major overhaul
085-DK	05.04.80	Addendum to the bulletin No.40-DK 1.Installation of the reinforcement plate on the rail No.7509-211 2.Reaming seat fixation holes 8x9 in seat rails	0601-2005 0601-37290	Aircraft manufacturer	Major overhaul
086-DK	13.02.80	Emergency door jettison mechanism modification	0601-40212	Aircraft manufacturer	Major overhaul
087-BD	03.06.82	Replacement of the metal oil cooler fairing with the glass fiber fairing	0601-47287	Aircraft manufacturer	Major overhaul
088-E (6328/249E)	14.06.79	Landing gear life time extension	all	Operator	On SB receipt
089-R (6328/254R)	24.10.79	Replacement of the shock absorber ring No.4111-11 with the ring No.4111-00	4111-00 till 01.04.79	Overhaul factory	Major overhaul
81127-R	02.04.82	Addendum to the carburettor repair technology	All	Information bulletin	
090-DK	07.02.80	AK-50 compressor cooling improvement	0601-0910	Aircraft manufacturer	Major overhaul
091-E	07.06.80	Manuals clarification	0114-34016	Operator	On SB receipt
092-DK	22.09.81	Replacement of the landing gear switch attachment bracket with the improved bracket	0601-37219	Aircraft manufacturer	Major overhaul
093-DK	19.12.80	Reinforcement of the landing flap hinge	0401, 0601-2015	Aircraft manufacturer	Major overhaul
094-DK	13.06.80	Replacement of the terminal in the trim tab neutral position warning system	0401, 0601-37290	Aircraft manufacturer	Major overhaul
095-DK	13.11.80	Installation of the additional instrument panel shock mount	0601-34139	Aircraft manufacturer	Major overhaul
096-DM	24.11.80	Replacement of the "Landysh-5" radio with "Baklan" radio	0601-37192	Aircraft manufacturer	Major overhaul
097-DK	22.08.80	Reinforcement of the wing center section skin along the rib No.4 (if cracks occur)	0601-1012	Aircraft manufacturer	Major overhaul or if cracks occur
098-DK	25.12.80	Reinforcement of the landing flap within the area of pneumatic jack attachment	0601-40019	Aircraft manufacturer	Major overhaul
099-DK	22.09.81	Elevator structure reinforcement	0601-44604	Aircraft manufacturer	Major overhaul
100-R	22.07.80	Major Overhaul documentation clarification	0601-34066	Operator	3 month after SB receipt
101-E	16.04.81	Manuals clarification	0114-40044	Operator	1 month after SB receipt
102-DK	20.04.81	Reinforcement of relay box attachment points	0601-40044	Aircraft manufacturer	Major overhaul
103-DK	20.04.81	Replacement of fuel tank aluminium attachment bands with steel bands	0601-30928	Aircraft manufacturer	30.06.82
104-DK	04.02.81	Clarification of bulletins No.61-DK and No.86-DK	see 061-DK & 086-DK	Operator	
105-DK (6328/308)	22.09.81	Replacement of faulty cylinders No. 4114-00A with cylinders No.4114-00B	4114-00A till 11/80	Overhaul factory	22.03.83

106-DK	24.09.81	Reinforcement of the rudder structure within the trim tab attachment area	0601-44604	Aircraft manufacturer	Major overhaul
107-DK	10.11.81	Installation of aircraft electric grounding device	0601-34062	Aircraft manufacturer	31.12.82
108-DK	03.06.82	Reinforcement of the carburetor intake	0601-50376	Aircraft manufacturer	Major overhaul
109-IK	10.06.81	Major structural changes of airplane S/N 22202023624 through 22202044794	23624-44794	Information bulletin	
110-E (6328/335E)	12.11.81	Reducing landing gear shock absorbers charging pressure	0601-0730	Maintenance organisation	30.12.82
111-E	21.05.82	Manuals clarification	0114-47817	Information bulletin	
112-DK	22.06.82	Modification of pilots seat control cable termination	0601-47389	Aircraft manufacturer	Major overhaul
113-DK	03.06.82	Replacement of brackets, which attach ribs to the rear spar	0601-44794	Aircraft manufacturer	Major overhaul
114-DK	30.06.82	1. Replacement of pneumatic panel No.5801-00A with the pneumatic panel No.5801-00B 2. Installation of the main air bottle drain system 3. Transfer of the main air bottle to the left part of luggage compartment	0601-30216 0601-32816 0601-2006	Aircraft manufacturer	Major overhaul
115-BU	14.07.82	Replacement of AZP-1BM with AZP-A2 (if AZP-1BM is found faulty)	0601-44812	Maintenance organisation	If defect found
116-DM	21.01.84	Critical angle of attack warning installation	0601-47817	Aircraft manufacturer	Major overhaul
117-DK	29.12.81	Replacement of outer and middle aileron hinges	0601-49488	Aircraft manufacturer	30.06.83
118-DA	25.11.81	Periodical inspection of the middle aileron hinge bracket	0601-49488	Maintenance organisation	During scheduled maintenance
119-E	28.04.82	Manual clarification (elimination of summer heating)	0601-47817	Information bulletin	
120-BR	21.05.82	Major Overhaul Manual text clarification	All	Information bulletin	
121-BD	04.10.82	Preventing of cracks and galling of rollers No.5200-20 located on the bulkhead No.12	0601-50376	Aircraft manufacturer	Major overhaul
122-BR	04.10.82	Major Overhaul Manual clarification (rudder control)		Information bulletin	
123-BD	13.05.83	Preventing the aileron inboard hinge bolt No.2000-19 wear out	0601-34139	Aircraft manufacturer	Major overhaul
124-BR	03.05.83	Major Overhaul Manual clarification (bulletins No.87 and No.117)	All	Information bulletin	
125-BE	14.05.82	Manual clarification (regarding the replacement of AEP-MB with AEP-A2)	All	Information bulletin	
126-BR	14.07.82	Manual clarification (regarding AZP)	All	Information bulletin	
127-BD	04.10.82	Elimination of engine cowling shapes wear out	0601-32230	Aircraft manufacturer	30.06.83
128-BD	18.10.82	Replacement of attachment eyebolts on the aileron outboard bracket	0601-51822	Aircraft manufacturer	Major overhaul
129 BD	28.03.83	Replacement of the pitot attachment tube with the reinforced one	0601-55418	Aircraft manufacturer	Major overhaul
130-BR	09.09.82	Clarification of Operational and Major Overhaul Manuals regarding aileron's attachment brackets	0601-55612	Maintenance organisation	Major overhaul

131-BE	28.07.83	Clarification of Operational and Major Overhaul Manuals regarding the SSKUA-1 flight data recording system	All	Maintenance organisation, Operator	After SB 116-DM
132-BD	04.03.83	Replacement of exhaust collector and exhaust pipe repair	0601-55612	Aircraft manufacturer	If necessary
133-BD	20.07.83	Expanding of the bulletin No.32-DK application	0112-55612	Aircraft manufacturer	Major overhaul
134-BD	20.07.83	Installation of Teflon washers for the wing fairing attachment bolts	0601-44794	Cancelled by the bulletin No.195-BD	
135-BD	23.11.83	Replacement of the lever No.6500-71 with the reinforced one	All	Aircraft manufacturer	Major overhaul after 1500 hours
136-BD	04.11.83	Preventing fin fabric skin ruptures	0601-55612	Cancelled by the bulletin No.200-BD	
138-BE	05.11.83	Manuals clarification (installation and dismounting of landing gear jacks)	0601-55612	Overhaul factory	On SB receipt
139-BR	23.02.84	Major Overhaul Manual clarification (throttle control)	0601-55612	Overhaul factory	3 month after SB receipt
140-BD	10.02.86	Preventing destruction of the relay No.7230 box attachment	0601-55612	Overhaul factory	Major overhaul
141-BD	17.07.84	Reinforcement of the attachment area of elevator control bracket No. 5130-30	0601-55612	Overhaul factory	Major overhaul
142-BU	06.07.84	Hole in the trim tab control linkage No.5410-140SB	0601-55612	Aircraft manufacturer	Major overhaul
143-BE	14.07.84	Operation manual clarification	All	Information bulletin	
144-BD	20.03.86	1.Replacement of wing attachment fittings for thicker ones 2.Replacement of wing attachment bolts	0601-2011 0601-2010	Aircraft manufacturer	Major overhaul
145-BR	11.12.84	Major Overhaul Manual clarification	All	Information bulletin	
146-BD	01.11.84	Installation of the fuel breathing system cover No.6100-94 instead of the constrictor	0601-44604	Operation within summer season	
147-BU	28.03.85	Installation of the first-aid box	0601-2007	Aircraft manufacturer	Major overhaul
148-BD	23.11.84	Installation of bonding stripes between engine cowling and fuselage	0601-34027	Aircraft manufacturer	Major overhaul
149-BU	26.03.85	Replacement of the oil system valve No.6204-05 with the steel valve made from 12H18A10T	0601-55612	Overhaul factory	Major overhaul
150-BU	16.04.85	Replacement of oil tank with the reinforced oil tank No.6201-100	0601-37290	Aircraft manufacturer	Major overhaul
151-BD	05.09.85	Reinforcement and replacement of stops No.5130-50 and No.5130-90 in airplane control system	0601-55612	Overhaul Factory and Maintenance Organization	
152-BR	31.05.85	Clarification of Major Overhaul Manual and parts catalogue	All	Information bulletin	
153-BD	06.02.86	Replacement of control column attachment bolts with bolts No.3027-6-18, Control column replacement	0601-55612	Aircraft manufacturer	Major overhaul
154-BD	20.02.85	Installation of the eyebolt No.5410-1410SB in trim tab control system	0601-55612	Overhaul factory	Major overhaul
155-BU	18.04.85	Installation of spring cylinder on RH landing gear	34019-34139	Aircraft manufacturer	Major overhaul
157-BD	10.04.86	Replacement of brackets 0161-20, 0161-30 with reinforced ones	0601-55612	Both Aircraft Manufacturer and Overhaul Factory	Major overhaul

158-BD	16.08.85	Fuel system, modification of drain system	0601-55612	Aircraft manufacturer	16.11.85
159-BE	29.05.85	Manuals clarification (nuts tightening with preselect torque)	0601-55612	Aircraft manufacturer	29.08.86
160-BE	18.12.84	Manuals clarification (increasing time between major overhauls)	All	Information bulletin	
161-BD	29.10.86	Reinforcement of ribs nose parts attachment to the wing center section front spar	0601-0730	Aircraft manufacturer	Major overhaul
162-BD	16.05.85	Replacement of the clamp No.6801-110V-7 with the clamp No. 6801-310	0601-0730	Overhaul factory, Operator	On SB receipt
163-BD	16.05.85	Replacement of gills bolts No.6303-171 with higher strength bolts	0601-55612	Aircraft manufacturer	Major overhaul
164-BD	16.08.85	Replacement of the engine cowling lock case No.6902-81	0601-55612	Overhaul factory, Operator	If cracks found
165-BD	14.02.86	Replacement of throttle handle for the reinforced throttle handle No.7003-20	0601-55612	Aircraft manufacturer	Major overhaul
166-BD	13.12.86	Replacement of the R-2 governor pawl No.6500-203 with the improved pawl No.6500-211	0601-0730	Aircraft manufacturer	Major overhaul
167-BD	13.02.86	Replacement of carburettor scoop hinge	0601-55612	Aircraft manufacturer	Major overhaul
168-BD	09.06.86	Replacement of the bracket 6500-10 with the improved bracket 6500-230	0601-0730	Aircraft manufacturer	Major overhaul
169-BD	02.07.85	Replacement of the center support bolt No.3000-11 with the bolt 3000-13	0601-55612	Aircraft manufacturer	Major overhaul
170-BD	16.05.86	Preventing brake control cable ruptures	0601-0730	Aircraft manufacturer	Major overhaul
171-BD	03.03.86	Installation of bushings under the PU-7 valve control screw	0601-0730	Maintenance organization	03.09.86
172-BU	29.01.86	Installation of bushings under shut-off valve handle attachment screw	0601-55612	Aircraft manufacturer	Major overhaul
173-BD	15.01.86	Replacement of the attachment bracket No.0200-30 on the rear stabilizer attachment point	0601-55612	Aircraft manufacturer	Major overhaul
175-BD	08.04.86	Installation of the edge former around the oil cooler cut-out	0601-55612	Overhaul Factory or Maintenance Organization if cracks found	Major overhaul or during operation, if cracks found
176-BD	11.05.86	Air heater modification	0601-55612	Aircraft manufacturer	Major overhaul
177-BD	24.03.87	Installation of light- and sound-warning system for landing gear retracted position	All	Aircraft manufacturer	Major overhaul
178-BD	11.12.85	Changing of the US-450 air speed indicator installation	0601-55612	Aircraft manufacturer	31.12.1986
179-BD	14.07.86	Cockpit doors modification	0601-55612	Aircraft manufacturer	Major overhaul
180-BD	15.05.86	Reinforcement of bulkhead No.0, No.8 and profile 0100-20	0601-55612	Aircraft manufacturer	Major overhaul
181-BD	30.10.86	Replacement of rudder flange and bearing in the lower rudder hinge	0601-55612	Aircraft manufacturer	Major overhaul
182-BD	25.06.86	Installation of reinforcement plates on the canopy post No.0160-40	0601-55612	Aircraft manufacturer	Major overhaul
183-BD	27.08.86	Replacement of aileron attachment bolts No.2000-19 with No.2000-19A	0601-55612	Overhaul factory	Major overhaul

185-BD	15.05.86	Manuals clarification (regarding air heater)	All	Information bulletin	
186-BD	25.06.86	Reinforcement of attachment of ribs tail parts to the wing rear spar	0601-55612	Aircraft manufacturer	Major overhaul
187-BE	24.03.87	Manuals clarification (regarding bulletin No.177-BD)	All	Information bulletin	
188-BR	15.06.87	Clarification of Major Overhaul Manual and parts catalogue (regarding bulletin No.177-BD)	All	Information bulletin	
189-BR	30.10.86	Clarification of Major Overhaul Manual	All	Information bulletin	
190-BD	29.10.86	Replacement of the battery access door diaphragm with the reinforced diaphragm No.1020-180-31	0601-55612	Aircraft manufacturer	Major overhaul
191-BD	29.10.86	Replacement of the diaphragm which connects tail parts of ribs within the wing center section	0601-55612	Aircraft manufacturer	Major overhaul
192-BD	29.10.86	Replacement of flaps in the PO-250 access door hinge	0601-55612	Aircraft manufacturer	Major overhaul
193-BD	29.10.86	Replacement of shapes in the PO-250 niche with reinforced shapes	0601-55612	Aircraft manufacturer	Major overhaul
194-BD	29.10.86	Replacement of the wing center section step band No.1020-80-90 with the new one	0601-55612	Aircraft manufacturer	During operation
195-BD	08.07.87	Replacement of teflon washers under the wing fairing attachment bolts	0601-55612	Overhaul Factory or Maintenance Organization	Major overhaul or during operation
196-BD	26.08.86	Replacement of loose rivets attaching lower skin to the wing center section	0601-55612	Overhaul factory	Major overhaul
197-BD	27.08.86	Elimination of cracks on the oil cooler inlet. Arc welding	0601-55612	Overhaul factory	Major overhaul
198-BE	08.05.87	Clarification of weight and balance data	0601-55612	Information bulletin	
200-BD	11.03.87	Fin skin reinforcement and repair	0601-55612	Aircraft manufacturer	Major overhaul
201-BD	13.04.87	Replacement of canopy bracket No. 0161-10 with the reinforced one	0601-55612	Overhaul factory	Major overhaul
202-BU	05.01.87	Replacement of balls in landing gear jacks	0601-0730	Overhaul factory	Major overhaul
203-BD	13.04.87	Addendum to the bulletin No.157-BD (regarding canopy brackets replacement)	0601-2009, 0110-55612	Information bulletin	
204-BD	08.05.87	Installation of the cover No.9960-120 for the DS-1 sender protection	0601-47817	Aircraft manufacturer	During operation
205-BE	08.05.87	Clarification of the bulletin No.173-BD (bracket replacement after 2000 flight hours)	0601-55612		After 2000 flight hours
206-BR	10.11.87	Clarification of Major Overhaul Manual and parts catalogue	All	Information bulletin	
207-BD	01.09.87	Replacement of control column locking bolts and their wire locking	0601-55612	Aircraft manufacturer	Major overhaul
208-BD	02.09.87	Replacement of shapes attaching ribs to the front wing spar	All	Aircraft manufacturer	Major overhaul
209-BD	04.04.88	Modification of fuel breathing system	0601-55612		
211-BD	04.04.88	Manuals clarification (regarding bulletin No.209-BD)	0601-55612	Information bulletin	
212-BR	04.04.88	Major Overhaul Manual clarification (regarding bulletin No.209-BD)	All	Information bulletin	
215-BD	19.02.88	Replacement of the MU-615 sender attachment (SARPP-12K system)	0601-55612	Aircraft manufacturer	Major overhaul

222-BD	16.01.89	Enclosure of part 1 of SB 028-DK to S/N 0115-2220255612	0115-55612	Aircraft manufacturer	During operation
251-BE	05.02.99	Clarification of SB 205-BE	0601-55612 0131 and up	Operator, Overhaul factory	1 month after SB receipt
252-BE	05.02.99	Clarification of SB 173-BE	0601-55612 0131 and up	Operator, Overhaul factory	1 month after SB receipt
253-BE	05.02.99	Control system, Replacement of control column attachment bolts, Clarification of SB 153-BE	0601-55612 0131-1534	Operator, Overhaul factory	1 month after SB receipt
254-BD	13.02.07	Installation of ELT ARM-406AC1	0601-0730, 0131-2035, excluding 0431, 0932, 0233, 1433, 1633, 0234, 0334, 0434, 0534, 0634, 1134		
255-BD	14.05.08	Modernisation of Yak-18T		Information bulletin	
256-BU	07.04.09	Use of propeller AV-803-1-K-C/CL250-412 or B530TA-D35 on aircraft 36 <sup>th</sup> series and a/c modified iaw. SB 255-BD	A/C of 36 <sup>th</sup> series and a/c modified iaw. SB 255-BD	Information bulletin	
257-BE	07.04.09	Powerplant, Amended AMM and AFM	If SB 256-BU installed		
258-BD	09.06.09	Instrument panel, Horizon 4300-311	0136-4936, and S/N modified iaw. SB 255-BD: 0334, 0534, 1134, 0431, 1433, 0636, 1633, 0932, 0434.	Aircraft manufacturer	01.09.2009
259-BD	09.06.09	Wing, additional rivets on wing spar	0136-2336, 2636-4336	Aircraft supplier	15.07.2009
260-BD	09.09.09	Fuel system, Replacement of parts in drain system and fuel sensor 395-5S-1B	0136-4336	Aircraft supplier	20.10.2009
261-BE-G	06.05.11	Conditions and order of establishment of resources and service life of airplanes Jak-18T brought in the State Register of Civil Aircrafts of the Russian Federation (MS-1000 & MS-2000)	All	Aircraft manufacturer	Permanently

## Notes

1. No Mandatory Service Bulletins (Airworthiness Directives) have been issued subsequent to 1998.
2. A list of Service Bulletins can be obtained from the Yakovlev Design Bureau (address on Page 1) or from the following address:

Smolensk Aircraft Plant (SmAZ JSC Smolensk)  
74. Frunze street, Smolensk 214006, Russia  
Tel.: +7 (4812) 29-93-13  
Fax.: +7 (4812) 21-95-51  
E-mail: smaz@sci-smolensk.ru  
Web site: www.smaz.ru

### **SECTION 3: Occurrence Reporting**

This Specific Airworthiness Specification may be used as a basis for the issue of a Restricted Certificate of Airworthiness in accordance with 21A.173 (b)(2) under the following conditions:

- a) The holder of a Restricted Certificate of Airworthiness based on this Specific Airworthiness Specification shall report to the State of Registry all information related to occurrences associated with the operation of the aircraft which affects or could affect the safety of operation<sup>1</sup>.
- b) Such reports shall be despatched within 72 hours of the time when the occurrence was identified unless exceptional circumstances prevent this.
- c) The State of Registry shall forward the information received under (a) to the Agency when it relates to failures, malfunctions, defects or other occurrences which cause or might cause adverse effects on the continuing airworthiness of the aircraft.

### **SECTION 4: Other Limitations**

- a) This aircraft is limited to non-commercial operations.
- b) Serial Numbers:  
This SAS applies to following serial numbers:

Initial Serie: 5200509, 5201507, 7200216, 7201413, 8200916  
Series 32: 01-32, 10-32,  
Series 33: 01-33, 06-33, 11-33, 12-33,  
Series 34: 08-34, 10-34,  
Series 35: 11-35, 12-35, 13-35, 14-35, 15-35,  
Series 36: 22202023842, 22202034023, 22202034044, 22202034139, 22202034143,  
22202040216, 22202044623, 22202044785, 22202047216, 22202047812,  
22202047817, 22202052122,

- c) Eligibility:  
The SAS should not be seen as a mechanism for avoiding type certification in accordance with Part 21. This SAS has been used to 'legalise' aircraft that had not been certificated in accordance with Part 21 but which were already on the registers of EU member states on accession to the EU. Whilst it legalises these aircraft, it is not intended to be used to allow the import of additional aircraft of the same type which should be certificated in the normal way (Commission Regulation (EU) No 748/2012, Article 5).

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<sup>1</sup> AMC 20-8 contains guidance describing the occurrences which are to be reported. This document can be found on the EASA website under Regulations>Certification Specifications:  
[http://www.easa.europa.eu/doc/Agency\\_Mesures/AMC\\_GM/decision\\_ED\\_2003\\_12\\_RM.pdf](http://www.easa.europa.eu/doc/Agency_Mesures/AMC_GM/decision_ED_2003_12_RM.pdf)

**SECTION 5:** Change Record

Issue 1	31 October 2008	Initial issue
Issue 2	10 January 2012	To record correct AFM issuance date
Issue 3	07 February 2013	Amended sections 1.1.3 (Maintenance Instructions), 1.3 (life times and TBO), 2 (SB list) and 4 (Clarification of eligibility, serial numbers added).
Issue 4	15 February 2013	Typo error in section Maintenance Schedule, b) corrected (SB reference)