

European Aviation Safety Agency

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.

There is no valid EASA Type Certificate for this aircraft type.

The organisation responsible for technical issues and support for the aircraft is the

Yakovlev Design Bureau:
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Russian Federation

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SECTION 1: Aircraft Design Definitions

1.1 General

Aircraft built to conform to Russian Civil Aircraft Norms of 13/10/1967 and received the “Attestat of Airworthiness” from the Soviet Ministry of Civil Aviation, dated 29/03/1976.

No valid Type Certificate exists in Europe since the Type Certificate granted by the Hungarian Civil Aviation Administration in September 1999 (No. 21ЯК18) is not considered as grandfathered.

1.1.1 Certification Basis

In consideration that the aircraft does not have a valid Type Certificate in EU, the Certification Basis has not been formally established. Nevertheless, in order to support the Changed Product Rule, EASA will accept changes to the YAK-18T based on CS-23 Amdt.0 or later.

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.

It is also permitted to use the following types of automotive gasoline:

- A-92, АИ-92 ТУ 38.00165-97;
- АИ-91, АИ-93, АИ-95 GOST 2084-77;
- Регулятор-91, Премиум-95 GOST P51205-97;
- Gasolines conforming to USA standard ASTM D 4814;
- Gasolines conforming to EU standard EN228;
- Gasolines conforming to the standards of other countries, whereby the quality is not lower than that of ASTM D 4814 and EN228 mentioned above.

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:

- V-530TA-D35 2-blade propeller (Russian product).
- MT Propeller of Straubing, Germany, 3 blade propellers according the manufacturer Bulletin 1R1:
 - MTV-3-B-()/()250-21
 - MTV-9-B-(**)/(**)200-15
 - MTV-9-B-(**)/(**)248-63
 - MTV-9-B-(**)/(**)250-27
 - MTV-9-B-(**)/(**)250-29
 - MTV-9-B-(**)/(**)260-27
 - MTV-9-B-(**)/(**)260-27

- MTV-9-B-(**)/(**)260-29
- MTV-9-B-(**)/(**)260-29
- MTV-9-E-(**)/(**)248-63
- MTV-9-E-(**)/(**)250-27
- MTV-9-E-(**)/(**)250-29
- MTV-9-E-(**)/(**)260-27
- MTV-9-E-(**)/(**)260-29
- MTV-9-K-(**)/(**)240-29
- MTV-9-K-(**)/(**)248-63
- MTV-9-K-(**)/(**)250-27
- MTV-9-K-(**)/(**)250-29
- MTV-9-K-(**)/(**)260-27
- MTV-9-K-(**)/(**)260-29

Airspeed Limits	Refer to AFM	
	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:	+6,4g / -3,2g
	at Take-off Weight 1650 kg:	+5,0g / -2,5g
Number of Seats	Four (or five with three in the rear seat subject to CG Considerations) (refer to AFM)	
Maximum Baggage	Refer to AFM	
Fuel Capacity	Standard aircraft – 90 litres in each wing, and 3 litre fuselage collector tank. 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: $3 \pm 0,5$ kgf / cm ² Nose wheel: $3 \pm 0,5$ kgf / cm ²
Stall Warning	The YAK-18T is equipped with a "ССКYA-1" stall warning system, with a light annunciator between -1° and $+1^\circ$, and then a light annunciator together with audible signal from $+6^\circ$ to $+11^\circ$ angles of attack.
Equipment	<p>The standard Yak-18T is equipped with the following equipment:</p> <ul style="list-style-type: none">• 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 <p>However most aircraft in Western service have a range of Western avionics installed.</p>
Technical Manuals ¹	
Aircraft Flight Manual	Руководство по лётной эксплуатации самолёта ЯК-18Т с двигателем М-14П (Original Russian version, published by the manufacturer: Operating Handbook for aircraft Yak-18T) – effective from 1 st July 1977 including further Yakovlev approved revision (Изменение).
Operating Instructions	Инструкция по эксплуатации dated 1 st October 1992 or further Yakovlev approved revision.
Design and Operations Description	Самолёт ЯК-18Т. Конструкция и эксплуатация. 1978. (Yak-18T Aircraft. Design and Operations.)
Maintenance Programme	<p>Shall comply with the provisions of M.A.302.</p> <p>Compliance with paragraph M.A.302(d)(ii) can be made by applying the Instruction for Continued Airworthiness (ICA) hereafter:</p> <p>a) Yak-18T up to 35 series (inclusive): Maintenance Schedule is the SM-2003 (in Cyrillic "TO-2003") - part 1, 2 or 3 according to the maintenance regime chosen, or</p>

¹ 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.

- b) Yak-18T Aeroplane with M-14P Engine Maintenance Schedule dated May 1993, or
- c) Any other maintenance schedule the competent National Authority finds appropriate for this aircraft.

Note: of the above documents issued to support flight and ground operations: the Aircraft Flight Manual is for the trained pilot; Design and Operations and Operating Instructions serve for the type general knowledge, training preparations for operation, and care instructions.

1.2 Pertinent Data

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.

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

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 Life limitations

Aircraft Fixed Life Limit Time (whichever comes first):

- 3,500 flight hours,
- 15,000 landings,
- no calendar life limit is established

1.4 Service Time and Life Limits for Parts

The “Life Limits” included in Table 1 must be incorporated in the Maintenance Programme for the aeroplane. The Service Limits included in Table 1 should be considered for incorporation in the maintenance programme.

Description	Part Number	Service Limit	Life Limit
Propeller	V530TA-D35	500FH / 6Y	/
	MTV-9	Ref. to MT SB 1 R1	/
Engine	M-14P (1 st series)	1 st TBO 750FH - 2 nd TBO 500FH	2250FH
	M-14P (2 nd series) ²	1 st TBO 1000FH - 2 nd TBO 750FH	3000FH
	M-14PF	1 st TBO 750FH - 2 nd TBO 500FH	2250FH
Carburettor Membrane ³	K-14A, K-14P	/	- / 6Y
Flexible hoses as fitted	various	/	10Y (installation date)
Main Air Bottle	LM-375Я-11-50	- / 5Y	/
Emergency Air Bottle	LM-375Я-3-60	- / 5Y	/

Table 1 – Service Time and Life Limit for Parts

² In accordance with the prescription of the engine manufacturer Service Bulletin 207.5.0.0001.04

³ Life Limit established in accordance to the Lithuanian Airworthiness Directive CAI-TSD-001/2006

1.5 Other items to be considered in the Maintenance Programme

Description	Part Number	Limit
Altimeter	ALT-20MBF-3	calibration every 2Y
Speed Indicator	US-450K	calibration every 2Y
Undercarriage lifter, main gear	4114-00	Maintenance on condition & check every 100FH
Undercarriage lifter, front gear	4214-00A	Maintenance on condition & check every 100FH
Undercarriage locks, main	4115-00-1 4115-00-2	Maintenance on condition & check every 100FH
Undercarriage lock, front	4215-00	Maintenance on condition & check every 100FH or 2Y

Table 2 – Other items to be considered in the Maintenance Programme

SECTION 2: Service Bulletins

263- BU	24.01.11	Fuel system. Torsion box. Hook installation 020.00.6120.002.000 instead of the bushing 020.00.6120.001.000 tube attachments of fuel quantity meter sensor 395-5S-1B-5-24.	0136-6036
264- BU	03.10.12	Oil system. Six holes performance Ø12 on the oil cooler plug 6205-30A	All series incl. 36 series and ACs modified per bulletin 255- BD
265- BU	21.03.12	Air system. Installation of the manifold mounting bracket 20-5800-00-19 on the bulkhead №0	0136-6036
267- BU	21.03.12	Change of an accelerometer electrical diagram connection AM-9C	0136-6036
268- BU	21.03.12	Tachometer transmitter DTE-11 or DRE-1 applicator	0136-6036 and ACs, modified per bulletin 255-BD
269- BP	12.03.13	Technical polyester fabric application item 5360-79 TU 1.595-29-796-2004 for manufacture of stabilators and wing assemblies	0136-6036 and ACs, modified per bulletin 255-BD
270- BU	07.10.13	Power plant. Propeller installation MTV9-K-C/CL-240-29	All series incl. ACs modified per bulletin 255-BD, per ACs user requirement
271- BE	07.10.13	Technical description and operation Manual for Yak-18T specification	All

Table 3 provides an overview of the Service Bulletins issued by Yakovlev Design Bureau for consideration in the Maintenance Programme⁴.

⁴ The list of Service Bulletins provided in this document has been compiled according to the data available to EASA. Therefore it might be not fully complete or correct and it is provided for information only. The full list can be requested to 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

Bulletin No.	Issue Date	Title / Content	Applicability (A/C Serial Number)
1E	08.01.75	"Varly" battery body repair	
001-DM	31.10.75	Replacement of the SBSE-2077 fuel meter with the SBSE-2077A fuel meter	0601-0504
002-DK	29.05.75	Replacement of the engine mount ring for the reinforced one	0601-2007
003-DK	29.05.75	Replacement of the 4211-93 linkage in the 4211-90 damper	0601-0907
004-R	29.05.75	Replacement of undercarriage shock absorber pistons No.4111-14 and No.4211-18.	0601-0306
005-E	09.07.75	Manuals clarification	0101-1008
006-DK	06.06.75	Replacement of landing gear uplock springs No.4115-07 and No.4215-07	0601-0906
007-DM	11.06.75	Replacement of the M-14 engine with the M-14P	0601-0204
008-DK	19.05.76	Fire shut-off valves sealing	0601-0106
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
010-DK	13.09.76	Installation of the oil cooler winterisation blank No.6205-30A	0601-2008
012-DK	23.03.76	Reinforcement of the front spar wing attachment point	0601-1008
014-E	29.09.76	Manuals clarification	0101-0110
015-DK	29.04.77	1. Pitot attachment reinforcement 2. Replacement 7703-01	0601-0814
016-DK	13.07.76	Replacement of throttle lever attachment and friction unit	0601-2007
017-DK	23.11.76	Holes in the carburettor inlet choke	0601-0610
021-DK	29.03.77	Replacement of the trim tab and installation of additional balance weight on the elevator	0601-0812
022-DK	06.04.77	Replacement of the governor stop-screws bracket with the reinforced one	0601-2014
024-DK	06.04.77	Replacement of the collective tank drain valve No.6100-170 for the drain valve No.600500A	0601-1807
025-DK	29.04.77	Stabilizer reinforcement within the brace attachment area	0601-2013, 0401
026-DK	05.03.77	Fire wall reinforcement within the area of PK-45 attachment	0101, 0401, 0601-2012
027-DK	05.03.77	1. Enlargement of the aileron skin cut-out 2. Installation of the additional access door in the cockpit floor	0101, 0401, 0601-2013 0601-2014
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
029-DK	19.01.77	Landing gear inspection	0601-0807
030-DK	26.05.77	Replacement of control surfaces attachment units with removable studs units	0101-2014
031-DK	25.03.77	Replacement of the oil cooler thermos-valve with the reducing valve	0601-1212
032-DK	29.04.77	Wing center section reinforcement (13 different modifications)	Refer to SB
033-DK	29.04.77	Replacement of the emergency air bottle supporting cup	0601-2013
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
035-DK	26.05.77	1. Improving AM-800K landing gear micro switch reliability	0101, 0401, 0601-1009

Bulletin No.	Issue Date	Title / Content	Applicability (A/C Serial Number)
		2. Replacement of gills control arm with the reinforced one	0101, 0401, 0601-2015 0101, 0401, 0601-2010 0101, 0401, 0601-21921
		3. Improving of brake cable terminations	
		4. Adjusting air system reducing valve	
037-DK	01.06.77	Replacement of the stabilizer attachment fork-bolt No. 3000-02	0101, 0401, 0601-0614
038-DK	01.09.77	Replacement of bushings No.4210-05 in upper part of nose landing gear bracing strut	0101, 0401, 0601-2014
039-DK	27.02.78	Replacement of 2KNR buttons with PK2S-2 buttons for "Radio" and "Intercom"	0101, 0402 0601-1415
040-DK	02.12.77	Installation of the reinforcement plate on the pilot's seat sliding rail	0101, 0601-2015
041-DK	09.02.78	Elimination of plays in rudder pedals mechanism	0102, 0101-2015
042-DK	01.09.77	Replacement of the wing center section diaphragm post with the reinforced post	0101, 0401, 0601-0614
043-DK	02.12.77	Reinforcement of the carburettor inlet pipe	0101, 0401, 0601-23617
045-E (6328/185-E)	17.07.78	Increasing the life time and calendar life for nose landing gear jack	All
046-DK	18.07.79	Fin reinforcement	0101, 0601-23961
047-E	23.03.78	Manuals clarification	0115-2015
048-DK	05.01.78	Replacement of elevator flanges for reinforced ones	0101, 0401, 0601-23961
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
050-DK	02.12.78	Installation of additional stabilizer attachment point	0401, 0601-1018
051-DK	24.05.78	Lower engine cowling reinforcement	0401, 0601-2016
052-DK	09.06.78	Reinforcement of cockpit ventilation pipes, compressor and generator cooling ducts	0101, 0401, 0601-2014
053-DK (6328/193)	25.04.78	Replacement of undercarriage jacks No.4114-00	Till 06067
054-DK	06.02.78	Oil tank leaks elimination	0101, 0601-2014
055-DK	08.02.78	Replacement of fuel tanks No.6101-001V with reinforced tanks No.6101-00D	0601-1111
057-DK	10.08.78	Clarification of bulletin No. 32-DK	0601-0415
058-DK	02.12.78	Fuel system modification: 1. Replacement of the tee-piece No.6100-06 with the new shape tee-piece	0601-23617
		2. Installation of the additional attachment point for the pipe No.6100-00	0601-2011
059-DK	09.06.78	Installation of the IL-611-150 regulator in the charging device	0601-0516
060-DK	09.06.78	Installation of plates on the wing center section skin near the landing flap	0601-21921
061-DK	10.08.78	Replacement of aluminium pipes with steel pipes	0101, 0401 0601-23015
062-DK	30.11.78	Installation of the plate on the relay box	0101, 0401, 0601-23617
063-DK	10.04.79	Airplane modification for the installation of engine equipped with M9F magneto	0101, 0601-23516
064-IK	31.07.78	Introduction of new airplanes numbering	21517 and up

Bulletin No.	Issue Date	Title / Content	Applicability (A/C Serial Number)
065-DK	21.02.79	1. Fuel tank compartment inspection and replacement of bracket 2006-11	0601-1016
		2. Undercut of the middle stringer of the removable panel of the tank compartment	0601-30003
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
067-DK (6328/220R)	05.09.78	Changing of the attachment of main landing gear shock absorber obturator	Shock absorber till 01.04.77
068-DK	10.08.78	Extending the validity of the bulletin No.15-DK	1108-0814
069-E	08.06.79	Manuals clarification	0601-30016
070-E	21.02.79	1. Extending air bottles life time and calendar life.	all
		2. Interchangeability of fuel meters No.SBES-2077A and No. SBES-207B	0601-0813
071-DK	29.06.79	Replacement of exhaust pipes made from Steel 20 with exhaust pipes made from 12H18N10T	0601-30928
072-DK	08.06.79	Modification of fuel breathing system in order to make separate breathing	0601-2007
073-DK	22.09.79	Reinforcement of the elevator trim tab control system	0601-34032
074-DK	08.06.79	1. Installation of the additional pneumatic system non-return valve	0401, 0601-30216
		2. Separation of emergency air system from the main one	
075-IK	31.01.79	Structural changes of airplanes	1313-23617
076-DK	12.03.79	Replacement of attachment bolts for wing center section fairing	0401, 0601-2014
077-DK	18.06.79	Installation of the plate on cockpit doors within the upper hinge area	0601-32816
078-DK	10.02.80	Replacement of the door lock fixing arm with the longer arm No.0134-07	0601-37290
079-DK	26.07.79	Installation of the plate on the shape No.0100-21-1,-2 on the 9th bulkhead	0601-32230
080-R	23.10.79	Addendum to „The Major Overhaul Manual“	all
081-E	08.06.79	Manuals clarification	0601-32875
082-E	24.04.79	Increasing of the life time before the first major overhaul for lower arms of undercarriage bracing struts	all
084-DM	21.10.82	Installation of SARPP-12K flight data registration system	0601-41817
085-DK	05.04.80	Addendum to the bulletin No.40-DK 1.Installation of the reinforcement plate on the rail No.7509-211	0601-2005
		2.Reaming seat fixation holes 8x9 in seat rails	0601-37290
086-DK	13.02.80	Emergency door jettison mechanism modification	0601-40212
087-BD	03.06.82	Replacement of the metal oil cooler fairing with the glass fiber fairing	0601-47287
088-E (6328/249E)	14.06.79	Landing gear life time extension	all
089-DK (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
81127-R	02.04.82	Addendum to the carburettor repair technology	All
090-DK	07.02.80	AK-50 compressor cooling improvement	0601-0910
091-E	07.06.80	Manuals clarification	0114-34016
092-DK	22.09.81	Replacement of the landing gear switch attachment bracket with the improved bracket	0601-37219
093-DK	19.12.80	Reinforcement of the landing flap hinge	0401, 0601-2015
094-DK	13.06.80	Replacement of the terminal in the trim tab neutral position warning system	0401, 0601-37290
095-DK	13.11.80	Installation of the additional instrument panel shock mount	0601-34139
096-DM	24.11.80	Replacement of the "Landysh-5" radio with "Baklan" radio	0601-37192

Bulletin No.	Issue Date	Title / Content	Applicability (A/C Serial Number)
097-DK	22.08.80	Reinforcement of the wing center section skin along the rib No.4 (if cracks occur)	0601-1012
098-DK	25.12.80	Reinforcement of the landing flap within the area of pneumatic jack attachment	0601-40019
099-DK	22.09.81	Elevator structure reinforcement	0601-44604
100-R	22.07.80	Major Overhaul documentation clarification	0601-34066
101-E	16.04.81	Manuals clarification	0114-40044
102-DK	20.04.81	Reinforcement of relay box attachment points	0601-40044
103-DK	20.04.81	Replacement of fuel tank aluminium attachment bands with steel bands	0601-30928
104-DK	04.02.81	Clarification of bulletins No.61-DK and No.86-DK	see 061-DK & 086-DK
105-DK (6328/308)	22.09.81	Replacement of faulty cylinders No. 4114-00A with cylinders No.4114-00B	4114-00A till 11/80
106-DK	24.09.81	Reinforcement of the rudder structure within the trim tab attachment area	0601-44604
107-DK	10.11.81	Installation of aircraft electric grounding device	0601-34062
108-DK	03.06.82	Reinforcement of the carburettor intake	0601-50376
109-IK	10.06.81	Major structural changes of airplane S/N 22202023624 through 22202044794	23624-44794
110-E (6328/335E)	12.11.81	Reducing landing gear shock absorbers charging pressure	0601-0730
111-E	21.05.82	Manuals clarification	0114-47817
112-DK	22.06.82	Modification of pilots seat control cable termination	0601-47389
113-DK	03.06.82	Replacement of brackets, which attach ribs to the rear spar	0601-44794
114-DK	30.06.82	1. Replacement of pneumatic panel No.5801-00A with the pneumatic panel No.5801-00B	0601-30216
		2. Installation of the main air bottle drain system	0601-32816
		3. Transfer of the main air bottle to the left part of luggage compartment	0601-2006
115-BU	14.07.82	Replacement of AZP-1BM with AZP-A2 (if AZP-1BM is found faulty)	0601-44812
116-DM	21.01.84	Critical angle of attack warning installation	0601-47817
117-DK	29.12.81	Replacement of outer and middle aileron hinges	0601-49488
118-DA	25.11.81	Periodical inspection of the middle aileron hinge bracket	0601-49488
119-E	28.04.82	Manual clarification (elimination of summer heating)	0601-47817
120-BR	21.05.82	Major Overhaul Manual text clarification	All
121-BD	04.10.82	Preventing of cracks and galling of rollers No.5200-20 located on the bulkhead No.12	0601-50376
122-BR	04.10.82	Major Overhaul Manual clarification (rudder control)	
123-BD	13.05.83	Preventing the aileron inboard hinge bolt No.2000-19 wear out	0601-34139
124-BR	03.05.83	Major Overhaul Manual clarification (bulletins No.87 and No.117)	All
125-BE	14.05.82	Manual clarification (regarding the replacement of AEP-MB with AEP-A2)	All
126-BR	14.07.82	Manual clarification (regarding AZP)	All
127-BD	04.10.82	Elimination of engine cowling shapes wear out	0601-32230
128-BD	18.10.82	Replacement of attachment eyebolts on the aileron outboard bracket	0601-51822
129 BD	28.03.83	Replacement of the pitot attachment tube with the reinforced one	0601-55418
130-BR	09.09.82	Clarification of Operational and Major Overhaul Manuals regarding aileron's attachment brackets	0601-55612
131-BE	28.07.83	Clarification of Operational and Major Overhaul Manuals regarding the SSKUA-1 flight data recording system	All
132-BD	04.03.83	Replacement of exhaust collector and exhaust pipe repair	0601-55612

Bulletin No.	Issue Date	Title / Content	Applicability (A/C Serial Number)
133-BD	20.07.83	Expanding of the bulletin No.32-DK application	0112-55612
134-BD	20.07.83	Installation of Teflon washers for the wing fairing attachment bolts	0601-44794
135-BD	23.11.83	Replacement of the lever No.6500-71 with the reinforced one	All
136-BD	04.11.83	Preventing fin fabric skin ruptures	0601-55612
138-BE	05.11.83	Manuals clarification (installation and dismounting of landing gear jacks)	0601-55612
139-BR	23.02.84	Major Overhaul Manual clarification (throttle control)	0601-55612
140-BD	10.02.86	Preventing destruction of the relay No.7230 box attachment	0601-55612
141-BD	17.07.84	Reinforcement of the attachment area of elevator control bracket No. 5130-30	0601-55612
142-BU	06.07.84	Hole in the trim tab control linkage No.5410-140SB	0601-55612
143-BE	14.07.84	Operation manual clarification	All
144-BD	20.03.86	1.Replacement of wing attachment fittings for thicker ones	0601-2011
		2.Replacement of wing attachment bolts	0601-2010
145-BR	11.12.84	Major Overhaul Manual clarification	All
146-BD	01.11.84	Installation of the fuel breathing system cover No.6100-94 instead of the constrictor	0601-44604
147-BU	28.03.85	Installation of the first-aid box	0601-2007
148-BD	23.11.84	Installation of bonding stripes between engine cowling and fuselage	0601-34027
149-BU	26.03.85	Replacement of the oil system valve No.6204-05 with the steel valve made from 12H18A10T	0601-55612
150-BU	16.04.85	Replacement of oil tank with the reinforced oil tank No.6201-100	0601-37290
151-BD	05.09.85	Reinforcement and replacement of stops No.5130-50 and No.5130-90 in airplane control system	0601-55612
152-BR	31.05.85	Clarification of Major Overhaul Manual and parts catalogue	All
153-BD	06.02.86	Replacement of control column attachment bolts with bolts No.3027-6-18, Control column replacement	0601-55612
154-BD	20.02.85	Installation of the eyebolt No.5410-1410SB in trim tab control system	0601-55612
155-BU	18.04.85	Installation of spring cylinder on RH landing gear	34019-34139
157-BD	10.04.86	Replacement of brackets 0161-20, 0161-30 with reinforced ones	0601-55612
158-BD	16.08.85	Fuel system, modification of drain system	0601-55612
159-BE	29.05.85	Manuals clarification (nuts tightening with preselect torque)	0601-55612
160-BE	18.12.84	Manuals clarification (increasing time between major overhauls)	All
161-BD	29.10.86	Reinforcement of ribs nose parts attachment to the wing center section front spar	0601-0730
162-BD	16.05.85	Replacement of the clamp No.6801-110V-7 with the clamp No. 6801-310	0601-0730
163-BD	16.05.85	Replacement of gills bolts No.6303-171 with higher strength bolts	0601-55612
164-BD	16.08.85	Replacement of the engine cowling lock case No.6902-81	0601-55612
165-BD	14.02.86	Replacement of throttle handle for the reinforced throttle handle No.7003-20	0601-55612
166-BD	13.12.86	Replacement of the R-2 governor pawl No.6500-203 with the improved pawl No.6500-211	0601-0730
167-BD	13.02.86	Replacement of carburettor scoop hinge	0601-55612
168-BD	09.06.86	Replacement of the bracket 6500-10 with the improved bracket 6500-230	0601-0730

Bulletin No.	Issue Date	Title / Content	Applicability (A/C Serial Number)
169-BD	02.07.85	Replacement of the center support bolt No.3000-11 with the bolt 3000-13	0601-55612
170-BD	16.05.86	Preventing brake control cable ruptures	0601-0730
171-BD	03.03.86	Installation of bushings under the PU-7 valve control screw	0601-0730
172-BU	29.01.86	Installation of bushings under shut-off valve handle attachment screw	0601-55612
173-BD	15.01.86	Replacement of the attachment bracket No.0200-30 on the rear stabilizer attachment point	0601-55612
175-BD	08.04.86	Installation of the edge former around the oil cooler cut-out	0601-55612
176-BD	11.05.86	Air heater modification	0601-55612
177-BD	24.03.87	Installation of light- and sound- warning system for landing gear retracted position	All
178-BD	11.12.85	Changing of the US-450 air speed indicator installation	0601-55612
179-BD	14.07.86	Cockpit doors modification	0601-55612
180-BD	15.05.86	Reinforcement of bulkhead No.0, No.8 and profile 0100-20	0601-55612
181-BD	30.10.86	Replacement of rudder flange and bearing in the lower rudder hinge	0601-55612
182-BD	25.06.86	Installation of reinforcement plates on the canopy post No.0160-40	0601-55612
183-BD	27.08.86	Replacement of aileron attachment bolts No.2000-19 with No.2000-19A	0601-55612
185-BE	15.05.86	Manuals clarification (regarding air heater)	All
186-BD	25.06.86	Reinforcement of attachment of ribs tail parts to the wing rear spar	0601-55612
187-BE	24.03.87	Manuals clarification (regarding bulletin No.177-BD)	All
188-BR	15.06.87	Clarification of Major Overhaul Manual and parts catalogue (regarding bulletin No.177-BD)	All
189-BR	30.10.86	Clarification of Major Overhaul Manual	All
190-BD	29.10.86	Replacement of the battery access door diaphragm with the reinforced diaphragm No.1020-180-31	0601-55612
191-BD	29.10.86	Replacement of the diaphragm which connects tail parts of ribs within the wing center section	0601-55612
192-BD	29.10.86	Replacement of flaps in the PO-250 access door hinge	0601-55612
193-BD	29.10.86	Replacement of shapes in the PO-250 niche with reinforced shapes	0601-55612
194-BD	29.10.86	Replacement of the wing center section step band No.1020-80-90 with the new one	0601-55612
195-BD	08.07.87	Replacement of Teflon washers under the wing fairing attachment bolts	0601-55612
196-BD	26.08.86	Replacement of loose rivets attaching lower skin to the wing center section	0601-55612
197-BD	27.08.86	Elimination of cracks on the oil cooler inlet. Arc welding	0601-55612
198-BE	08.05.87	Clarification of weight and balance data	0601-55612
200-BD	11.03.87	Fin skin reinforcement and repair	0601-55612
201-BD	13.04.87	Replacement of canopy bracket No. 0161-10 with the reinforced one	0601-55612
202-BU	05.01.87	Replacement of balls in landing gear jacks	0601-0730
203-BD	13.04.87	Addendum to the bulletin No.157-BD (regarding canopy brackets replacement)	0601-2009, 0110-55612
204-BD	08.05.87	Installation of the cover No.9960-120 for the DS-1 sender protection	0601-47817
205-BE	08.05.87	Clarification of the bulletin No.173-BD (bracket replacement after 2000 flight hours)	0601-55612
206-BR	10.11.87	Clarification of Major Overhaul Manual and parts catalogue	All

Bulletin No.	Issue Date	Title / Content	Applicability (A/C Serial Number)
207-BD	01.09.87	Replacement of control column locking bolts and their wire locking	0601-55612
208-BD	02.09.87	Replacement of shapes attaching ribs to the front wing spar	All
209-BD	04.04.88	Modification of fuel breathing system	0601-55612
211-BE	04.04.88	Manuals clarification (regarding bulletin No.209-BD)	0601-55612
212-BR	04.04.88	Major Overhaul Manual clarification (regarding bulletin No.209-BD)	All
215-BD	19.02.88	Replacement of the MU-615 sender attachment (SARPP-12K system)	0601-55612
222-BD	16.01.89	Enclosure of part 1 of SB 028-DK to S/N 0115-2220255612	0115-55612
251-BE	05.02.99	Clarification of SB 205-BE	0601-55612 0131 and up
252-BE	05.02.99	Clarification of SB 173-BE	0601-55612 0131 and up
253-BE	05.02.99	Control system, Replacement of control column attachment bolts, Clarification of SB 153-BE	0601-55612 0131-1534
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	
256-BU	07.04.09	Use of propeller AV-803-1-K-C/CL250-412 or B530TA-D35 on aircraft 36 th series and a/c modified iaw. SB 255-BD	A/C of 36 th series and a/c modified iaw. SB 255-BD
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.
259-BD	09.06.09	Wing, additional rivets on wing spar	0136-2336, 2636-4336
260-BD	09.09.09	Fuel system, Replacement of parts in drain system and fuel sensor 395-5S-1B	0136-4336
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
263- BU	24.01.11	Fuel system. Torsion box. Hook installation 020.00.6120.002.000 instead of the bushing 020.00.6120.001.000 tube attachments of fuel quantity meter sensor 395-5S-1B-5-24.	0136-6036
264- BU	03.10.12	Oil system. Six holes performance Ø12 on the oil cooler plug 6205-30A	All series incl. 36 series and ACs modified per bulletin 255- BD
265- BU	21.03.12	Air system. Installation of the manifold mounting bracket 20-5800-00-19 on the bulkhead №0	0136-6036
267- BU	21.03.12	Change of an accelerometer electrical diagram connection AM-9C	0136-6036
268- BU	21.03.12	Tachometer transmitter DTE-11 or DRE-1applicator	0136-6036 and ACs, modified per bulletin 255-BD

Bulletin No.	Issue Date	Title / Content	Applicability (A/C Serial Number)
269- BP	12.03.13	Technical polyester fabric application item 5360-79 TU 1.595-29-796-2004 for manufacture of stabilators and wing assemblies	0136-6036 and ACs, modified per bulletin 255-BD
270- BU	07.10.13	Power plant. Propeller installation MTV9-K-C/CL-240-29	All series incl. ACs modified per bulletin 255-BD, per ACs user requirement
271- BE	07.10.13	Technical description and operation Manual for Yak-18T specification	All

Table 3 – List of Service Bulletins issued by Yakovlev Design Bureau

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 21.A.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 operation⁵.
- b) Such reports shall be despatched within 72 hours of the time when the occurrence was identified unless exceptional circumstances prevent this.

SECTION 4: Other Limitations

- a) This aircraft is limited to non-commercial operations.
- b) Eligibility
The SAS should not be seen as a mechanism for avoiding type certification in accordance with Part 21.
This SAS has been used as a transition mechanism for 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 (Commission Regulation (EU) No 748/2012, Article 5).
Whilst it includes these aircraft in the EU system, it is not intended to be used to allow the import of additional aircraft of the same type which should be certificated in accordance with Part 21.
The applicability of this SAS is limited to individual aircraft by serial number. The only Yak-18T aircraft eligible for a Restricted Certificate of Airworthiness (RCoA) in accordance with article 21.A.173(b)2 are those with serial numbers listed in this section:

- Production date from 1974 to 1978 ("*System 1*" numbering system):
 - Series 07: 15-07 (5201507, 5201207)
 - Series 09: 05-09 (5200509)
 - Series 13: 14-13 (7201413)
 - Series 16: 09-16 (8200916), 14-16 (8201416)
- Production date from 1978 to 1993 (222 020... has been omitted in front of the built):
 - Series 18: 05-18 (...23842)
 - Series 21: 08-21 (...34023), 14-21 (...34044),
 - Series 22: 02-22 (...34068), 20-22 (...34139),
09-22 (...34089)
 - Series 23: 01-23 (...34143)
 - Series 25: 07-25 (...40216), 11-25 (...40425),
15-25 (...44533), 18-25 (...44595)
 - Series 26: 17-26 (...44785), 05-26 (...44623)
 - Series 27: 07-27 (...47216), 19-27 (...47812),
20-27 (...47817)
 - Not identified: (...52122)

⁵ AMC 20-8 contains guidance describing the occurrences which are to be reported. This document can be found on the EASA website.

- Production date from 1993:
 - Series 32: 01-32, 10-32
 - Series 33: 01-33, 06-33, 11-33, 12-33, 17-33
 - Series 34: 08-34, 10-34
 - Series 35: 11-35, 12-35, 13-35, 14-35, 15-35

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 Programme, b) corrected (SB reference)
Issue 5	1 March 2013	Footnote 1 on page 15 amended. Additional s/n added, Regrouping text in section V.
Issue 6	14 March 2013	Serial number grouping corrected
Issue 7	16 December 2015	Updated Serial Number Eligibility List
Issue 8	6 June 2017	Amended Sections: <ul style="list-style-type: none"> - 1.1 Revised to improve clarity - 1.1.1 Revised to improve clarity - 1.1.2: clarified allowed MT propellers according to MT Straubing SB 1R1 - 1.1.2: clarified the possible Maintenance Regimes - 1.3: clarified the A/C Life Limits - 1.4: clarified the Life Limits and Service Time for Parts - 1.5: added - 2: removed misleading Note on Airworthiness Directives and improved SB table - 3: removed bullet c) - 4: revised the numbering system and added 2 new S/N
Issue 9	17 September 2020	Added S/N 5201207