BIULETYN

Nr E/02.152/94 Prod. M 18

Dolyczy: Uzupełnienia biuletynu Nr E/02.142/91 zwiększającego resurs samolotów

do 6000 godz.lotu

Subject: Supplement to Bulletin No. E/02.142/91 extending the airplane service life up to 6000 fl.hrs.

Касается:Дополнения бюллетеня % 3/02.142/91

по увеличению ресурса самолетов до

6000 л.ч.

TRANSPORT EQUIPMENT CORPORATION

"PZL - MIELEC " JOINT STOCK COMPANY

AGREED UPON WITH:
GICA, Warsaw

For airplanes: PZL M18, M18A, M18AS DROMADER

Subject: Supplement to Bulletin No. E/O2.142/91

extending the airplane service life
up to 6000 fl.hrs.

APPROVED BY:

Aviation Division
Technical Director

P. RUDNY

The bulletin contains θ pages of type written text.

I. PURPOSE

This bulletin is aimed at advising the operators of the PZL-M18 DROMADER airplane about the limitation of the work scope scheduled to be accomplished in accordance with the K/O2.142/91 bulletin provisions.

The fatigue tests conducted by the manufacturer have shown no need for the replacement of RH rear fitting which attaches the wing to the fuselage Dwg. No. D21.530.00.0 or D21.530.00.1P after 3.000⁺³⁰⁰ fl.hrs. Instead, there is still necessity of replacing the LH rear fitting Dwg No. D21.530.00.0 or D21.530.00.1L after 3.000 fl.hrs.

The basis is: Evaluation of PZL M18 DROMADER airplane fatigue test results - Final report No. M18/OLO-3/51/93 Issue A, p.5.2.1, pages 21, 22.

II. APPLICABILITY

All the airplanes from S/N 12001-01 to 12025-30. On the airplane starting from S/N 12026-01 the necessity of replacing the LH fitting after 3.000 fl.hrs is still effective (it is imposed by the directives in the PZL M18 DROMADER Airplane Repair Manual. Section III. Service Lives).

When performing the airplane verification after 3.000^{+300} fl.hrs per Section 2 and optimization of the centerwing according to section 3 of Bulletin No. K/02.142/91, the RH rear fitting D21.530.00.0 or D21.530.00.1P shall not be refaced.

IV. LIST OF TOOLS AND MATERIALS REQUIRED

The specification No 1 of Bulletin K/02.142/91 is cancelled and instead of it the specification given on rage 5 is valid.

SPECIFICATION No. 1

of parts and materials indispensable for replacement of D21.530.00.1L fitting.

152,794

Provided by holes dia. 10 in the the provisions of the K/02.152/94 bulletin taken into Without 4 the recommendations contained herein should be taken fitting Operator entry: "The bulletin K/02.142/91 accomplished with into account, and the bulletin execution recorded in the Airframe Log Book by making the following 1. While accomplishing the bulletin No. K/02.142/91 Per a/c C1 C-3 Fitting V. FINAL REMARKS Washer Washer Primer Bolt Bolt Nut 3402A-0.5-10-18 3402A-1.5-10-18 PC1.530.00.1P 3021A-10-42 consideration" 3021A-10-44 3373A-10 152.794 0 0 4 5 6

2. The remaining concurrences resulting from the provisions of the K/02.142/91 bulletin are not subject to change.

3. The MIS airplane flight-technical personnel should be acquainted with the contents of this bulletin.

Cignatures of the approving authorities are contained in the Polish Bulletin No. K/02.152/94.

This is a true translation from the original Folloh Bulletin K/02.152/94.

Trenotated by: S. (Janua 18)

Y ...

TRANSPORT EQUIPMENT FACTORY "PZL - MIELEC"

APPROVED BY :

CENTRAL ADMINISTRATION OF CIVIL AVIATION (CACA)

HANDATORY SERVICE MANUAL No. E/02 342/9;

For aicolanes : PZL M16; M16A; M18AS DROMADER

Subject: Extension of aircraft service life up to 6000 flying hours.

APPROVED BY

APPROVED BY :

Deputy Director.

1 - 1

CACA District VI

Research and Development

1:1

BIULETYN

Nº K/02.142/91 PROD. M18

Dotyczy: Zwiększenia rosursu sanolotów op i 6000 godz lotu

Subject: Extention of aircraft service life up to 6000 flying hours.

ласается: Увеличения ресурса самолёта до 6000 лётных часов.

Sd refiere a: Prolongacion de la vida util de los aviones hasta 6000 horas de vuelo.

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This bulletin contains 21 pages of type -written text nlus 4 sketches.

I.PURPOSE

1. This bulletin is simed at notifying Operators of extension of the preliminary service life from 5,000 fl.hrs to 6,000 fl.hrs on the PZL M18, M18A, M18AS DROMADER sircraft.

'- 3 -

- 2. The extension of service life is based on the following:
 - obtained satisfactory results from airframe structure fatique test
- examination and theoretical analysis conducted in accordance with FAR 23.572 requirements
 - analysis of the technical condition of the airplanes being under operation with the highest number of flown hours
 - Substantiation procedures being the basis of service life extension are performed under the supervision of Polish Airworthiness Authority - CACA.
- 3. Service lives of accessories, parts and rubber elements are described under it.4. Section III of this bulletin.
- 4. This bulletin cancels all the previously issued bulletins regarding service: lives, i.e: E/041/82, E/02.080/85, E/02.109/86, E/02.123/88 and E/02.133/89.

II. APPLICABILITY

- 1. Aircraft S/N 17022-27 and up have entries about the 6,000 fl.hr service life in the documentation made by the aircraft manufacturer.
- 2. Service life of the MIB, MIBA and MIBAS DROMADER aircraft being under operation, S/N 12001-01 thru 12022-26, can be extended up to 6,000 flying hours after optimalization of the centerwing design according to provisions of this bulletin:

ness certificate, without performing additional procedures.

Service life of aircraft which have flown hours since new

fewer than 3,000 _

during the nearest prolongation of the validity of airworthi-

.is to be extended to 3,000 fl.hrs.

III. PROCEDURES Periodical and special inspections. To provide for proper technical condition of the aircraft,

a) current maintenance (special pre-flight inspection)

in the Schedule of Periodical Work and Service Manual, namely:

the following service work is to be carried out as discussed

b) periodical duties

fied under it.2, Table No.1 Frequency of current service, periodical duties, verification c) verification inspection after 3,000 fl hrs. inspections and optimalization of centerwing design is speci-

Teble No.1

Portadical work, verification inspections and design changes within 0 to 6,000 flying hours

īt.	Scope of work and inspections	<u> </u>	'	A/(F 1	own	₩o.	urs	5in	ce	New	, .	.				
1.	Inspections and periodical duties carried out acc. to Schedule of Periodical Work and Service Manual	50.	100	150	200	250	300	350	400	450	Sap	1000	2000	3000	4000	5006	9009
	after: 50 ⁺ fl.hrs.	+	+	•	+		+	٠	+	+	•	8 V.8	гу	0 f	hr		
	100-10 fl.hrs.				+		+		+4			aye	Τy	100	1.h	5.	
	500-50 fl.hrs.							-				/ev	вгу	500	£1.4	15/	
	verification inspection after reaching 3,000 [±] 300 fl.hrs. parformed per Schedule and Service Manual, Chapter 5													+			•
	Optimalization of centerwing design in the following scope: a) replacement of the centerwing to-fuselage attach (rear) fittings D21.53C.00.0 b) modification of the connection of D21.200.38.0 centerwing main spar lower flange to the D21.40G.40 L/P bracket c) reinjorcement of the centerwing			•									ı	+1 +1 +2			

3,000 fl.hrs not later than 1) to be conducted

2) To be performed not later than 4,500-11.hrs.

[67.19]

This optimalization consists on the following:

- replacement of D21.530.00.0 fittings for D21.530.00.1 L/P ones on the aircraft S/N 12019-30 and down;
- modification of the connection of D21.200.38.0 centerwing main spar lower flange to the D21.400.40 L/P bracket on the aircraft up to S/N 1Z005-13.
- reinforcement of centerwing rear spar lower flanges on the aircraft S/N 1Z022-26 and preceding;
- 3.1. Replacement of 021.530.00.0 fittings for the 021.530.00.1 L/P on the aircraft S/N 12019-30 and down.
 Proceed por the following steps:
- 3.1.1. Remove outer wings.
- 3.1.2. Remove the centerwing after having disconnected the fuel lines, wires and control system.
- 3.1.3. Unscrew the bolts attaching 021.530.00.0 fittings to the centerwing at the rear spar.
 - NOTE: Mark shim washers placed under the fittings so as not to confuse them when re-installing under new fittings.
- 3.1.4. Put the removed fittings into the 021.573.016988 fixture and basing on them set the fixture adjusters so as to trace the holes for the bolts attaching the fitting to the centerwing.

 After setting the fixture adjusters remove the old (reference) fitting and instead of it affix a new one for drilling out. Sefeguard the new fitting against displacement using chucks.
- 3.1.5. Drill four holes of dia. 6 nm, bore then from dia.6 to dia.5.7 and then up to dia.5.9Hb / $\frac{G}{U}$, and 1DH6 / $\frac{G}{U}$ / using a reason, and finally make chamfers of 0.5/45° on either side.

3.1.6. Set shim washers and the bored fitting on the centerwing, securing it in place with two bolts inserted into the holes spaced diagonally, whereas the remaining two holes are to be drilled-out again with a reamer of \$6.10H8.

Insert 2 bolts into the enlarged holes, placing 3405A-0,5-10-18 washers under bolt heads. Next, put 3402A-1,5-10-18 washers over bolts and screw on nuts.

Tighten bolts alternately so that uniform screwing can be obtained. Remove two bolts that held the fittings for boring two holes and drill out the remaining two holes with a reamer up to dis. 10H8. Place bolts, washers and nuts. Tighten nuts, screwing the bolts spaced diagonally.

- NOTE: 1. Re-boring of holes in fittings and centerwing is simed at eliminating a slight misalignment of 4 holes of dia.10H8 for bolts 3021A-10-42 /-44/.
 - 2. The m/m: four holes are to be bored with a hand reamer.
- 3.1.7. Check the fittings for proper assembly.

NOTE: Parts and materials required for the replacement of fittings are listed in specification No.1, while tools and jigs - in specification No.2

3.2. Modification of the D21.400.40 L/P bracket-to-the centerwing main spar lower flange D21.200.38.0 connection on aircraft S/N 1Z005-13 and down.

Follow the sequence of procedures as given below:

- 3.2.1. To facilitate work at drilling out rivets and boring holes up to dia.7H8,repair peepholes shall be made in 021.556.00.0L/P ribs per Sketch No.2. To this end, proceed as follows:
 - dismantle covers of the existing peep-holes
 - drill out rivets attaching D21.558/02.L/P angle bars
 - and remove them
 - cut out the holes of radius R=25 mm in the ribs.

- 3.2.2. Unscrew nuts MB and remove bolts M6 partially from the spar flange /area for a drill and a reamer/.
- 3.2.3. Remove 2 rivets (3503A-5-26) located symetrically on either side of Rib 5A, view "B", both at the LH and RH aircraft side , in the area shown in Sketch No.3.

NOTE: While unriveting pay attention se as not to demage the flange surface, Centra-drill the head and remove the rivet.

- 3.2.4. Make sure if there are no crake on the hole walls.
- 3.2.5. Enlarge the holes left upon removal of rivets up to the dis .6.5 using a drill, and next up to the dis. 6.8 M8. with a reamer.
- 3.2.6. Borc holes up to dia. 7 H8 with a reamer.

NOTE: Hole boring is recommended to be done with ratchet crill-type hand wheels from the wrench set with an extension rod between the reamer and the hand wheel.

- 3.2.7. Connect the spar flange to the wall with 021.200.01.0R repair bolts as shown in Detail B. Skatch No.3.
- 3.2.8. Tighten M8 nuts on the bolts in the spar flange.
- 3.2.9. Rivet the repair cover plate, D21.558/02.0 L/P angle bar and make a peep-hole in the cover plate as shown in Sketch No.2.
- 3.2.10. Remove chips, bore dust and other contamination.
- 3.2.11. Danaged area (lack of anti-corrosion protection) and rivet heads and formed rivet heads are to be primed.
- 3.2.12 It is recommended to protect the lower and upper spar flanges with a layer of temporary protection means or epoxy primer

- 3.2.13. Parts and materials necessary for the accomplishment of item 3.2 are listed in Specification No.3, while indispensable tools are given in Specification No.4.
- 3.3. Reinforcement of centerwing rear spar lower flanges (a/c S/N 12001-01 thru 12022-26).

This reinforcement shall be carried out on the aircraft with . flown hours up to 4,500 in accordance with Sketch No.4. For airplanes on which the reinforcements per it.3.1 and 3.2. and it.9 and 10 of bulletin E/92.123/88 were not introduced. the manufacturer recommends to accomplish all the reinforcements simultaneously because the centerwing will be removed from the simplene, which facilitates performing the reinforcement of lower flanges.

3.3.1. Remove the 010.920.00.3 cover to enable easier access to the centerwing rear spar area.

NOTE: Procedure 3.3.1 shall not be performed if the centerwing is removed from the airplane.

- 3.3.2. Disconnect, if necessary, the push rods of the flap and airleron control system to facilitate rivetting in the wing trailing edge area between ribs 18:60L and 48:60P.
- 3.3.3. Fit shim inserts and reinforcing cover plates according to dimensions given in Sketch No.4.
- 3.3.4. Remove the existing rivets in the area where cover plates abut
- 3.3.5. Make 2 holes of dia. B and 4 holes of dia.4.2 as well as 34 holes of dia.3.5 in each cover plate (by tracing)according to mating elements(holes left upon remova) of bolts, screws and rivets).
- 3.3.6. According to holes in cover r'ates make holes of dia.4.2 and 3.5 in the shim insert.

NOTE: These holes can be drilled simultaneously when tracing holes in the cover plates.

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- 3.3.7. Make B lead holes of dia.3 under rivets of dia 3.5 in each cover plate acc.to spacing given in the sketch.
- 3.3.8. Attach cover plates and shim inserts to anchor nuts with bolts M8 and screws M4, and drill 8 holes of dia 3.5 according to the lead holes of dia.3 in the cover plates.
- 3.3.9. Bismount cover plates and inserts. Remove bore dust.
- 3.3.10. Install bolts M8, washers and nuts, rivet rivets as shown in Sketch No.4.

NOTE: In case of hole battering under rivets of dia.3.5, it is permitted to use approx.10% rivets of dia.4 mm.

- 3.3.11 Remove bore dust, chips and other contamination from the reinforcement area. Heads and formed rivet heads as well as damaged anti-corrosion protection coatings shall be primed. To protect the spar against corrosion it is advisable to cover it with temporary anti-corrosion protection coating.
- 3 3.12.Connect the push-rods in the control system, if disconnected.
- 3.3.13.Due to the increased package by thickness of cover plates, the D21,541.00.0 cover plate shall be installed in this area using sealing compound.

List of parts and materials needed for the accomplishment of this item is given in Specification No.5 herein.

Tools necessary for the reinforcement of rear spar flanges are contained in Specification No.6.

- 4. SERVICE LIFE OF ACCESSORIES, PARTS AND RUBBER CONDUITS.
- 4.1. List of accessories with limited service life (Table 4.1)

		4	L	_	•	
It.	Nams	Туре	Service life	Unit	Years	
1	2	3	. 4	5 .	6	
1.	Cylinder temp. thermoelectric meter	21CT-47F org21@154747	1000	flhrs	4	
2.	Tachometer	TE-45	1000	engine operating hours	;-	
3.	Speed transduce:	TE-45	. 1000	fl.hrs.	2	
٨.	Mixture temp. indicator	TUE-48	3000	engine operating hours	6	
5.	Engine unit gauge	UKZ-1	3000	engine operating hours	. 6	
6.	Manifold pres- sure gauge	MW-16U	2000	fl.hrs	-	
7.	Altimeter	WD-108K or PW-12	3000	fl.hrs	-	
8.	Rate-of-climb indicator	WR-10UK or WRm-10	3000	fl.hrs	-	
9.	Compass	KI-13AK	2000	fl.hrs	_	
10.	Airspeed indicator	PS-06AK	3000	fl.hrs	-	
11.	Artificial horizon	GH-07	1500	fl.hrs] -	
12,	Converter	EP-17A	3000	fl.hrs	B	
13.	Voltage regula- tor	R-25AM	2000	fl.hrs	-	
14.	Radiostation	RS 6102	2000	operating hours	-	
15.	Hydraulic pump	1069-111- 074	1500	engine operating hours	-	
16.	Braking valve	ZLH-2	1500	engine operating hours	.4	

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11	2	3	4	5	6
17.	Air pressure	MA-250M or D77.141.00.0	3000	fl.hrs	19
18.	Pressure gauge	MD-2008	1200	fl.hrs	- .
19.	Pitot tube	PWD-6M	3000	flibes	-
20.	Voltammeter	WA-3K	2000	fl.hrs	
21.	Battery	12-SAM-28	-	-	2
22.	Gyro-compass indicator	GM-01	1008	fl.hrs	- `
23.	ADF	ARL-1601	1000	operating	_
	1			hours	
			 		

4.).1. Accessories which have reached service life limit shall be dismantled and put under laboratory test to prove their compliance with Technical Specifications or replaced for new ones.

Basic parameters to which accesories should correspond are specified in the "List of Parameters of Accessories installed on the M18, M18A, M18AS aircraft", which was sent along with bulletin No. E/02.133/89

4.1.2. The decision of directing accessories to repair shops or their admitting to further operation after reaching service life limit is to be undertaken by the executor of verifying inspection in concurrement with local airworthiness authority on the basis of accessory technical condition and operating compatibility with the Specifications.

- 4.1.3. Accessories admitted to further operation after overhaul or on the basis of good technical condition and measurement results can have service life extended succesively up to the airframe service life value.
- 4.1.4. Service lives of accessories not mentioned in Table No.4.1 of this bulletin correspond to the following:
 - accessories installed on the airframe have service life equal to the service life of the airframe
 - accessories installed on the engine have service life defined in engine documents

After reaching dervice life limit the a/m accessories are to be operated according to their technical condition and replaced or repaired after detecting mulfunction.

- 4.2. The allowable storage and operation period of rubber hoses installed on the M18 is 7 years for low pressure systems and 6 years for high pressure systems. The above depends on good technical condition of the home, which can be evaluated for service life extension only after inspection and tightness test conducted per recommendations given in Repair Manual.
- 4.3.Tires and Inner Tubes their service life is established to 6 years including storage period. Thereafter they should undergo a thorough technical examination to determine their qualification for further operation on the airplane. The evaluation shall be made per instructions in Repair Manual.
- 4.4. The remaining rubber parts installed on the airframe (apart from these ones constituting the part of the end products) are to be replaced if excessive wear, cracks or other visible damage are found.

IV. REVISIONS TO DESCRIPTIVE-OPERATIONAL DOCUMENTATION.

"The PZL NIS DROMADER AIRPLANE DESCRIPTION AND SERVICE MANUAL" issued an December 1979 should be updated on the basis of pages sent along with bullatins No. E/82.123/88 and E/82.133/89. If it was not updated, the fellowing pages shall be ordered at Operator's cost depending on language version.

LANGUAGE VERSION :

- English

al Work issued : / on June 1989)

- Pelish	p. 0-21; 0-3; 0-5; 5-13; 5-14; issue date: Nov.10'89 and p.5-14a; 5-14b issue date: Oct. 10'88.
- English)	p. 0-2m; 0-3; 0-5; 5-13; 5-14 issue date: Oct.11'89 and p. 5-14a; 5-14b issue date Oct.10'68
- Russian	p. 0-2 ; 0-3; 0-5; 5-13; 5-14 issue date: Nov.10'89 and p.5-14a; 5-14b issue date: Oct.10'86
- Spanish	p. 0-2i; 0-3; 0-5; 5-15; 5-16 issue date: Nov.10'89 and p. 5-16a; 5-16b; issue date: Oct.10'88
- English (acc.to FAA requirements)	 p. 0-2n; 0-3; 0-5; 0-7; 5-14 issue date: Oct.11'89 p.5-14a; 5-14b; 8-11; 8-12; issue date: Oct. 10'88 and p. 8-1; 8-2; 6-3; 8-9; 8-10; issue date: Nov.11'69

(Brazilian Service 6-8; 6-9; 6-10 issue date: Oct.11'89 Manual and Schedule of Periodig- p. 5-14a; 5-14b issue date: Oct.10'88

p. 0-2m; 0-3; 0-5; 0-7; 5-13; 5-14; 8-7;

V. LIST OF TOOLS AND MATERIALS REQUIRED.

1. Specifications

SPECIFICATION No.1

Parts and materials necessary for the replacement of 821.538.80.8 fittings(it. 3.1 Section III, en a/c S/N 1Z019-30 and down).

Iŧ.	Part or Sid No.	. Name	Q-ty per	Notes
	D21.530.00.1 L D21.530.00.1 L	Fitting' · Fitting	1	without 4 holes of dia. 10 in, the fit- ting mount
4. 5. 6	3021A-10-42 3021A-10-44 3405A-0,5-10-18 3402A-1,5-10-18 3373A-10	Bolt Bolt Washer Washer Nut Primer	4 4 8 8 8	provided by Operato

E: Parts it 1,2 and 7 were specified in bulletin No.

E/02.123/88 and they shall not be ordered if they were delivered earlier.

SPECIFICATION No.2

Tools and jigs indispensable for the replacement of fittings (it.3.1, Section III of this bulletin)

It.	Part or Std No.	Name	Q-ty per a/c	Notes
1.		Driller .	1	
2.		Drill & 6	1 1 .	provided by
3.		Drill 6 9,7	1 1	Operator
4.	! .	Chucking reamer	1	himself
* 5.	·	Chucking reamer \$ 10 HB	1	
6.	,	Plug gauge ø 18H8	1 _	•
7.	-	Hand reamer 6 10 H8	1	
8.	021.573/016988	Fixture	1	delivered by WSK "PZL- -Mielec" at Operator's cost.
		:		•

^{1/} It.8 is supplied by WSK "PZL-Mielec" - 1 p.c. for each operator upon placing an order (See Notes to it. 3.5.2).

SPECIFICATION No. 3

Parts and materials needed for modification of the D21.400.40 L/P bracket-to-the centerwing main spar lower flange (D21.200.38.0) connection on the aircraft S/N IZ005-13 and down. See it. 3.2, Section III.

It.	Dwg or Std No.	Name	Q-ty per a/c	Notes
1.	Material K-PA7 ≠ 1,2x250x320	Cover plate	2	
2.	3501A-3,5-11	Rivet	16	far the
3.	3501A-3-9	Rivet	42	repair
4.	3558A-3-7	Rivet	120	peep-hole
5.	3549A-2,6-9	Rivet	44 .	
6.	D21.200.01.0. R	Bolt	4	for the
7.	3374A-6	Nut	4	spar flange
8.	3402A-0,8-6-12	Washer	6	ment
		Epoxy primer	`	provided
			1	by Operator

SPECIFICATION No. 4

Tools required for the modification of the D21,400.40 L/P bracket-to-the centerwing main spar lower flange (D21.200.38.0) connection on the a/c S/N 1Z005-13 and preceding. Tools delivered by Operator. (See it. 3.2, Section III.).

It.	Tool design	Name	Q-ty per a/c	sates
1. 2. 3.		Driller Drill ø 6.5 Drill ø 6.8 Hand mandrel	1 1 1	
5.		reamer & 6,8 HB Hand mandrel reamer & 7HB	1	

- 3. The 3,000+300 flying hour verification inspection and centerwing design optimalization acc.to it.3.1, 3.2 and 3.3, Section III (with the delivery of parts for optimalization) can be conducted by MSK "PZL-MIELEC" Service Team at Operator's cost upon placement of an order.

 The inspection can be also used for training the Operator's personnel and for implementing modifications by Operator's own resources.
- 4. The bulletin is to be accomplished by Operator's Service Division at its cost and by own resources upon approval by local Airworthiness. Authority.

VIII. FINAL REMARKS

- 1. On the M18, M18A, M18AS DROMADER aircraft that will reach service life of 3,000+100. Alow hours should undergo a verification inspection. Scope and inspection procedures are given in the "PZL M18 DROMADER Airplane Description and Service Manual". On aircraft S/N 1Z022-26 and down, after accomplishing provisions of this bulletin make entries in the relevant documents, changing service life to 6,000 fl.hrs.
- 2. On aircraft where 021.530.00.0 fittings were replaced and the centerwing main spar lower flange D21.200.38.0 connection was modified per bulletin No. E/02.123/88, it. 10, prior to reaching 4,500 fl.hrs. service life the reinforcement of the centerwing rear spar lower flanges shall be made during the 500-hour periodical work and the service life changed to 6,000 fl.hrs.
- 3. On aircraft with exceeded 4,500 fl.hrs where rear spar flanges were not reinforced, such a reinforcement is to be performed during the hearest 50-hour periodical work in accordance with it.3.3 of this bulletin and service life changed to 6,000 fl.hrs. in relevant aircraft documentation.
- 4. On aircraft where the centerwing was replaced, the design optimalization per it. 3 instructions shall be conducted according to the actual number of centerwing flying hours.

- 5. Make records of the bulletin accomplishment in the Aircraft Log Book.
- Familiarize the MI8 flight—technical personnel with the provisions of this bulletin.

Signature of the approving authorities are contained in the Polish Sulletin No. E/02.142/91.

This is a tue translation from the original Polish Bulletin No. $\pm/62.142/91$.

Nov.7 9

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(sign., date)

6	ED01.600.00.1 K ED01.160.00.0 K	Airframe Service Tool Kit	l set.
7	•	Snips	1
8		Pneumatic drill	1
,	•	Support .	1
10		Slide caliper	1
11		Hendwheel with retchet drill	1

SPECIFICATION No. 5

Parts and materials necessary for the reinforcement of the centerwing rear spar lower flange on the a/c S/N 1Z022-26 and down (it.3.3, Section III).

It.	Dwg or Std No.	Name .	Q-ty per a/c	Notes
1t. 2: 3: 4: 5: 6: 7: 8: 9: 11: 12: 13: 14: 15: 16: 17: 18: 19: 20: 21:	Dwg or Std No. D21.500.31.0 D21.500.32.0 3024A-8-24 3027A-8-26 3374A-8 3402A-0,8-8-14 3558A-3,5-12 3558A-3,5-12 3558A-3,5-14 3558A-3,5-16 3558A-3,5-17 3547A-3,5-13 3558A-4-18 3558A-4-13 3558A-4-18 3547A-4-18 3547A-4-18	Reinforcing Cover plate Shim insert		the repair rivets in case of hole batter-
	Materials : a) b) c)	Epoxy primer Epoxy cnamel Sealing compound		can be replaced by materials available at Operator's Delivered by Operator

SPECIFICATION No 6

Tools needed for the reinforcement of the centerwing rear spar lower flanges on the a/c S/N 1Z022-26 and down. Tools supplied by an Operator (see it.3.3, Section III herein).

It.	Designation	Neme	Q-ty per a/c	Notes
1.	•	Driller	1	
2.	-	Drills & 3,6; & 4,1; 6; 8,0	l set.	į
3.		Shears	1	
4.		Brush	1	

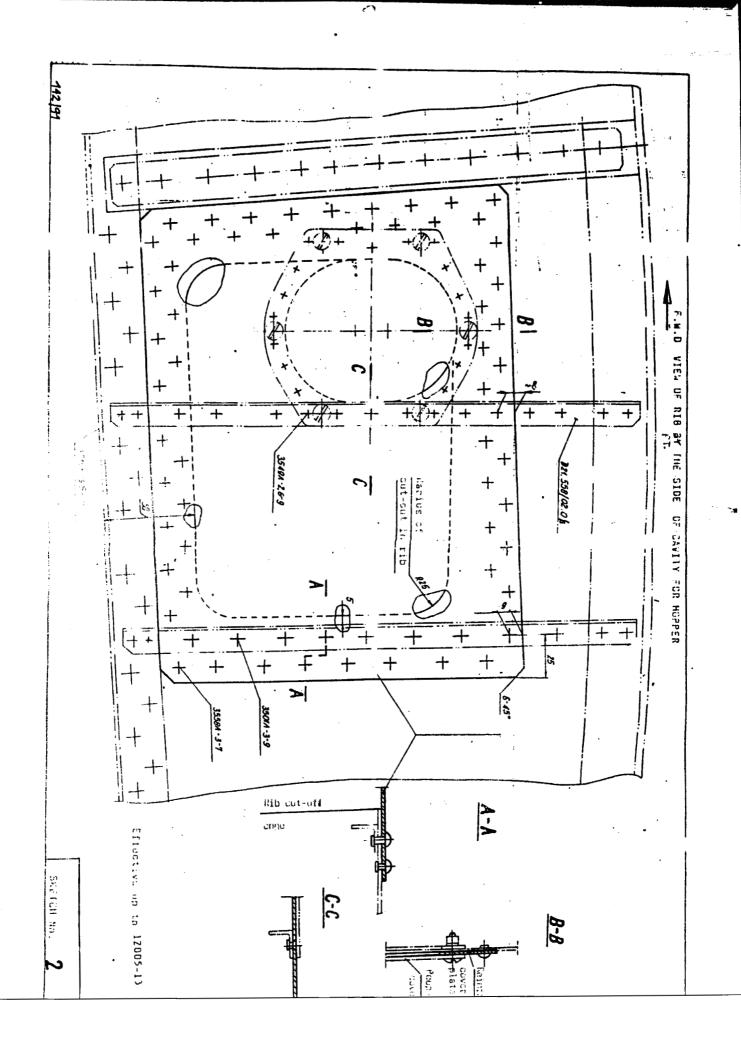
VI. AVAILABILITY OF PARTS

- Parts specified under Specification No's 1, 3 and 5 are to be delivered by WSK "PZL-Mielec at Operator's cost upon receipt of an order on dates agreed-upon between parties.
- Tools listed in Specification No's 2, 4 and 6 shall be provided by Operator by his own resources, except the 021.573/016988) fixture.

This fixture shall be supplied by WSK "PZL-Mielec"on the basis of a separate order placed by an Operator.

VII. EXECUTOR

- 1. Verification inspection after 3.000⁺³⁰⁰ fl.hrs and optimalization of the centerwing design per it.3. Section III can be performed by an Operator by his own resources and at a facility accredited by Airworthiness Authority of the Operator's country.
- 2. Due to high cost of the fixture it is suggested that, in case of small quantity of airplanes, the replacement of the fitting be commissioned to WSK "PZL-Mielec" Service Team that has this fixture included in its own service kit.



VIEW OF REAR CENTERWING ATTACHMENT FITTING

