TRANSPORT EQUIPMENT FACTORY "PZL - "IELEC"

APPROVED BY :

CENTRAL ADMINISTRATION OF CIVIL AVIATION (CACA)

MANDATURY SERVICE MANUAL No. E/02 1/2/9;

For airpianes : PZL MIB; MIBA; MIBAS DROMADER

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

APPROVED BY.

APPROVED BY :

Deputy Director.

CACA District VI

Research and Development

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BIULETYN

Nº K/02.142/91 PROD. M18

Ontyczy: Zwiększenia rosursu sandictów dp i 8000 godz.lotu:

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

песается: Увеличения ресурса самолёта до 6000 лётных часов.

Sd reffere as Prolongación de la vida útil de los aviones hasta 6000

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

I.PURPOSE

- This bullstin 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.
- 2. The extension of service life is based on the following:
 - obtained satisfactory results from airframe structure fatigue 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 since new.
 Substantiation procedures being the basis of service life extension are performed under the supervision of Polish
- 3. Service lives of accessories, parts and rubber elements are described under it.4, Section III of this bulletin.

Airworthiness Authority - CACA.

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 1Z022-27 and up have entries about the 6,000 fl.hr service life in the documentation made by the aircraft manufacturor.
- 2. Service life of the MIB, MI6A and MIBAS DROMADER aircraft being under operation. S/N 12001-01 thru 12022-26, can be extended up to 6.006 flying hours after optimalization of the centerwing design according to provisions of this bulletin:

Service life of aircraft which have flown hours since new fewer than 3,000 _ .is to be extended to 3,000 fl.hrs. during the nearest prolongation of the validity of airworthiness cartificate, without performing additional procedures.

III. PROCEDURES

- Periodical and special inspections.
 To provide for proper technical condition of the aircraft, the following service work is to be carried out as discussed in the Schedule of Periodical Work and Service Manual, namely:
- a) current maintenance (special pre-flight inspection)
 b) periodical duties

c) verification inspection after 3,000 fl.hrs

Frequency of current service, periodical duties, verification inspections and optimalization of centurwing design is specified under it.2, Table No.1

Teble No.1

Įt.	Scope of work and inspections	L		A/(F)	own	Mou	15.8	Sin	ce	New						
1.	Inspections and periodical duties carried out acc. to Schedula of Periodical Work and Scrvice Manual	50.	100	150	200	250	300	ŌŚξ	400	QSY	200	1000	2000	000€	0001	2006	0009
	after: 50° fl.hrs.			•	+	٠	•	٠	٠	•	•	ev.c	ry	50 f	hr		
	100-10 fl.hrs.		·		·		•		+÷			eye	ΣY.	00	1 . h	3.	
	500-50 fl.hrs.		Ċ					-				/ev	вгу	500	£1.#	18/	
2.	verification inspection after reaching 3.000±300 fl.hrs. parformed per Schedule and Service Manual, Chapter 5		·					•						*	•		•
3.	Eptimalization of centerwing cosign in the following scope: a) replacement of the centerwing to-fusclage attach (rear) fittings D21.53C.00.0			•					·			-		•¹			
	b) modification of the connection of O21.200.38.0 cuntorwing main spar lower flange to the O21.400.40 L/P bracket c) reinjorcement of the centerwing													•¹			

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

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

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3. CENTERWING DESIGN OPTIMALIZATION

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 12022-26 and preceding;
- 3.1. Replacement of D21.530.00.0 fittings for the D21.530.00.1 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. Safeguard the new fitting against displacement using chucks.
- 2.1.5. Drill four holes of dia. 6 nm, bore then from dia.6 to dia.5.7 and then up to dia.5.9Hb / $\frac{6.018}{0}$ / and 10Hb / $\frac{0.018}{0}$ / 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 \$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 nut5.
 - 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 dia. 1088. Place bolts, weshers 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 resper.
- 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 17005-13 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.7HB, repair peepholes shall be made in D21.550.00.0L/P ribs per Sketch No.2. To this end, proceed as follows:
 - dismantle covers of the existing peop-holes
 - drill out rivets attaching 021.558/02.L/P angle pers
 - and remove them
 - cut out the holes of radius R*25 mm in the ribs.

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- 3.2.2. Unscrew outs MB and remove bolts MB partially from the spar flange /ares for a drill and a resmer/.
- 3.2.3. Remove 2 rivets (3503A-5-26) located symetrically on either side of Rib 5A, view "D", both at the LM and RH sircraft side . in the area shown in Sketch No.3.
 - NOTE: While unriveting pay attention se as not to demage the flange surface Centre-drill the head and remove the rivet.
- 3.2.4. Make sure if there are no craks 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 MB. with a reamer.
- 3.2.6. Bord holes up to dia. 7 HB with a reamer.
 - NOTE: Hole boring is recommended to be done with ratchet drill-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 D21.20B.81.0R repair bolts as shown in Datail 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 contemination.

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- 3.2.11. Damaged 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 12001-81 thru 12022-26).

This reinforcement shall be carried out on the sircraft with . . flown hours up to 4,500 in accordance with Sketch No.4. For simplenes 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 sirplane, which facilitates performing the reinforcement of lower flanges.

- 3.3.1. Remove the D10.920.00.3 cover to enable essier 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 airloron 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. 8 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 removal of bolts, scrows and rivets).
- 3.3.6. According to holes in cover ristes 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. Nake 8 lead holes of dis.3 under rivets of dis 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 dis 3.5 according to the lead holes of dis.3 in the cover plates.
- 3.3.9. Dismount 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 rivat heads as well as canaged 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 D21,54:.00.0 cover plate shell be installed in this area using scaling compound.

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

lools 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)

				•	•	
It.	Name	Туре	Service life	Unit	Years	
1	2	3	. 4	5 、	6	
1,	Cylinder temp. thermpelectric meter	2TCT-47F or o2 T 3 TG47A7	1000	flhrs	4	
2.	Tachometer	TE-45	1000 .	engine operating hours	:	
3.	Speed transduce:	TE-45	. 1000	fl.hrs.	2	
4.	Mixture temp. indicator	TUE-48	3000	engine operating hours	6	
5.	Engine unit	UK2-1	3000	engine operating hours	. 6	
6.	Manifold pres- sure gauge	MW-16U	2000	flihes	-	
7.	Altimeter	WD-10BK or PW-12	3000	fl.hrs	-)
8.	Rate-of-climb indicator	WR-10UK or WRm-10	3000	f).hrs	-	
9.	Compass	KI-13AK	2000	fl.hrs	\	ı
10.	Airspeed indicator	PS-06AK	3000	fl.hrs	-	
11.	Artificial horizon	GH-07	1500	fl.hrs	-	١
12,	Converter	EP-17A	3000	fl.hrs		l
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	flihrs	19
18.	Pressure gauge	MD-2008	1200	fl.hrs	- .
19.	Pitot tube	PWD-6H '	3000	flührs	-
20.	Voltammeter	WA-3K	2000	fl.hrs	
21.	Settery	12-SAM-28	-	-	.2
22.	Gyro-compess indicator	CA-01	1000	fl.hrs	-
23.	ADF	ARL-1601	1000	operating 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

4.1.7. The docision 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 successively 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 hose, 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 those 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 MIS DROMADER AIRPLANE DESCRIPTION AND SERVICE MANUAL" issued on December 1979 should be updated on the basis of pages sent along with bulletins No. E/82.123/88 and E/82.133/89. If it was not updated, the following pages shall be ordered at Operator's cost depending on language version.

LANGUAGE VERSION :

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al Work issued 30 on June 1989)

- Polish	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. 5-14m; 5-14b issue date Oct.10'88
- 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
- Spenish .	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; 8-9; 8-10 issue date: Oct.11'85 Manual and Schedule of Periodig-p. 5-14a; 5-14b issue date: Oct.10'68

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

Y. LIST OF TOOLS AND MATERIALS REQUIRED.

1. Specifications

SPECIFICATION No.1

Parts and materials necessary for the replacement of 821.538.90.8 fittings(it. 3.1 Section III, en a/c S/N 12019-39 and down).

It.	Part or \$16 No.	Hane	Q-ty per s/c	Notes
	021.530.00.1 L 021.530.00.1 L	Fitting . Fitting	1	Without 4 holes of dis. 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

MOTE: 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 carlier.

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.	Nans	Q-ty per a/c	Notes
1. 2. 3. 4. 5.	•	Driller Orill # 6 Drill # 9,7 Chucking reamer #,9,9H8 Chucking reamer # 10 H8 Plug gauge # 10H8 Hand reamer # 10 H8	1 1 1 1 1 -	provided by Operator himself
8.	021.573/016988	Fixture	1	delivered by USK "PZL- -Miclec" 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 sirciaft S/N IZ005-13 and down. See it. 3.2, Section III.

It.	Dwg or Std No.	Hame	Q-ty per a/c	Notes
1.	Haterial K-PA7	Cover plate	2	
2.	3501A-3,5-11	Rivet	16	far the
3.	3501A-3-9	Rivet	42	repeir
4.	3558A-3-7	Rivet	120	peep-hole
5.	35494-2,6-9	Rivet	44 .	
6.	021.200.01.0. R	Bolt		for the
7.	3374A-6	Nut	•	sper flange reinforce-
8.	3402A-0,8-6-12	Washer	6	ment
		Epoxy primer		provided 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 Gperator. (See it. 3.2, Section III.).

It.	Tool design	Namo	Q-ty per a/c	: J tes
1.		Driller	1 1	
2.		Orill # 6.5 Orill # 6.8	1 ! !	
4.		Hand mandrel	1 ' 1	
••		reamor d 6,8	1	
5.		Hand mandrol		
	1	reamer 6 7H8	1 1	

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6	ED01.600.00.1 K E001.160.00.0 K	Airframe Service Tool Kit	1 set.
7	•	Snips	1
8		Procumatic drill	1
,	•	Support	1 1
10	•	Slide celiper	1
11	-	Hendwheel with ratchet 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 12022-26 and down (it.3.3, Section III).

Dwg or Std No.	Name .	Q-ty per a/c	Notes
021.500.31.0	Reinforcing Cover	2	
D21.500.32.0	Shim insert	2	1
	Bolt	1 5	
3027A-8-26	Bolt	2 2	
3374A-B	Nut	1 1	
3402A-0,8-8-14 .	Washer	1 3	1
3402A-3-B-14	Washer	2 2	
355843 512	Rivet	16	
3558A-3.5-13	Rivet	44	
3558A-3.5-14	Rivet		
3558A-3,5-13 3558A-3,5-14 3558A-3,5-16 3558A-3,5-17	Rivet	2 2 2	
3558A-3,5-17	Rivet	1 2	
547A-3,5-12	Rivet	16	
3547A-3,5-13	Rivet	1 4	
3558A-4-13 .	Rivet	4	h 1
3558A-4-14	Rivet		the repair
3558A-4-15	Rivet	1 2	rivets in
3558A-4-18	Rivet	6 2 2	7
3547A-4-13	Rivet	l ā	case of
35474-4-14	Rivet	4	hole batter-
3175A-4-16	Screw	l a	
			ing .
Materials :		1	
a)	Epoxy primer		can be
b)	Epoxy cnamel		replaced by
c)	1 5		materials
- ,	Sealing compound	l i	available
	ł	. j .	at Operators
	I		Delivered
•		1 1	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).

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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

- 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.
- 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.

- 3. The 3,000+300 flying hour verification inspection and centerwing design optimalization acc.te 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

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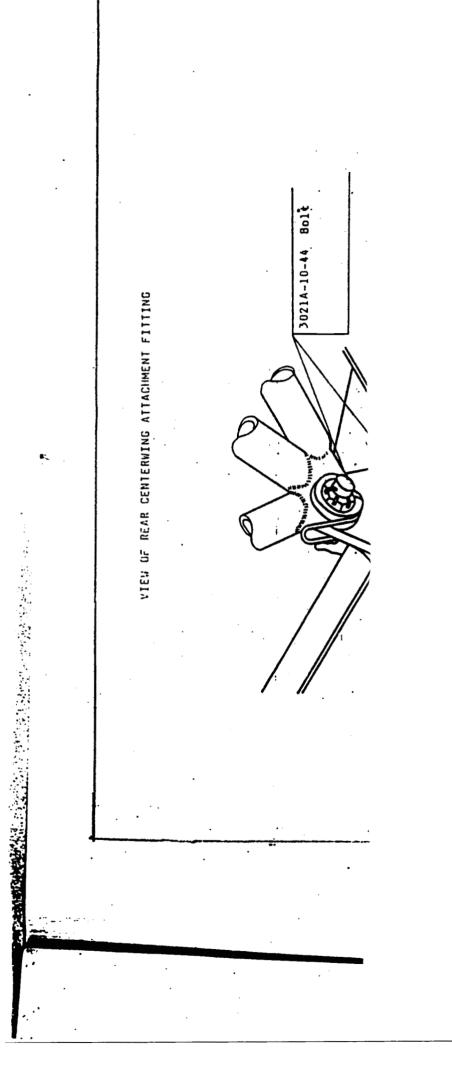
- 1. On the M18, M18A, M18AS DROMADER aircraft that will reach service life of 3,000+300. Those should undergo a verification inspection. Scope and inspection procedures are given in the "PZL M18 DROMADER Airplane Description and Service Manual". On aircraft S/N 12022-26 and down, after accomplishing provisions of this bulletin make entries in the relevant documents, changing service life to 6,000 fl.hrs.
- 2. On sircraft where 021.530.00.0 fittings were replaced and the centerwing main spar lower flange 021.200.38.0 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 mearest 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.

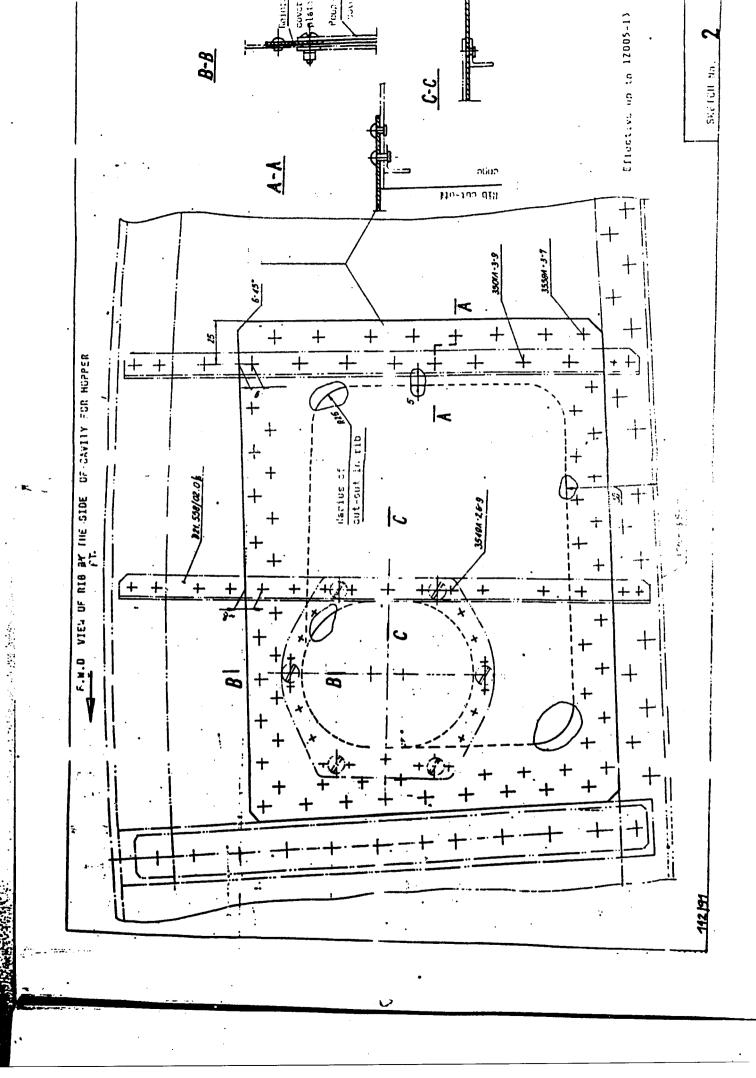
- Make records of the bulletin accomplishment in the Aircraft Log Book.
- 6. Familiarize the MIS flight—technical personnel with the provisions of this bulletin.

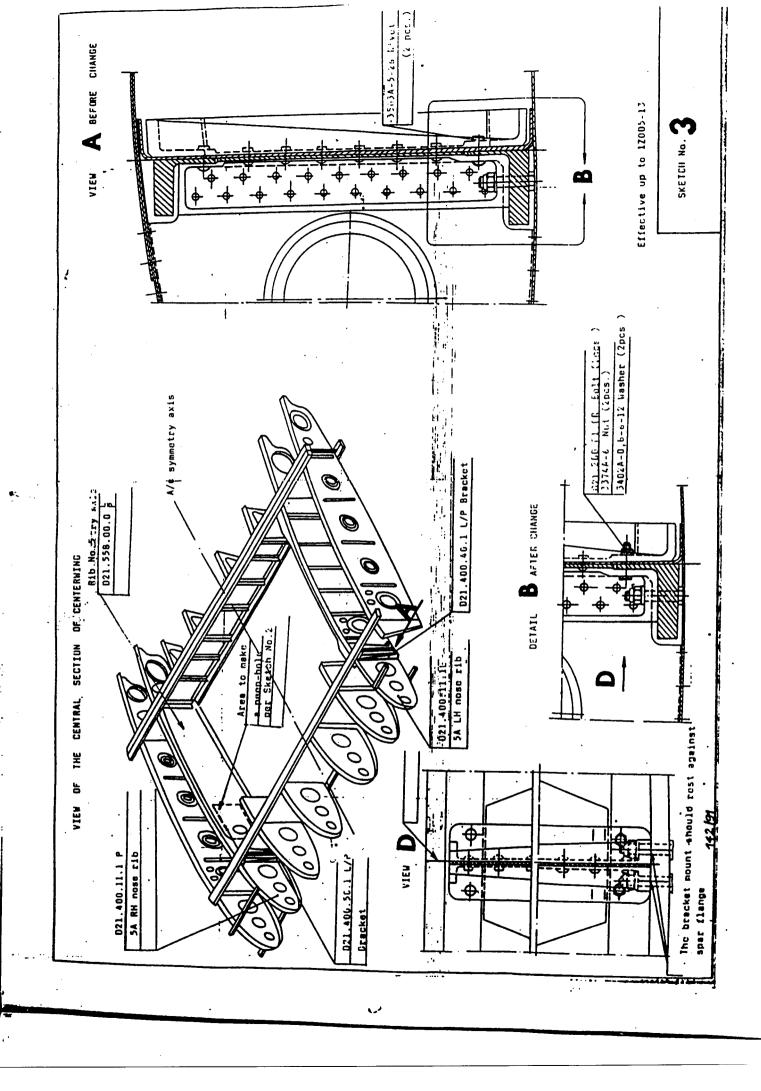
Signature of the approving authorities are contained in the Polish Sulletin No. E/02.142/91.

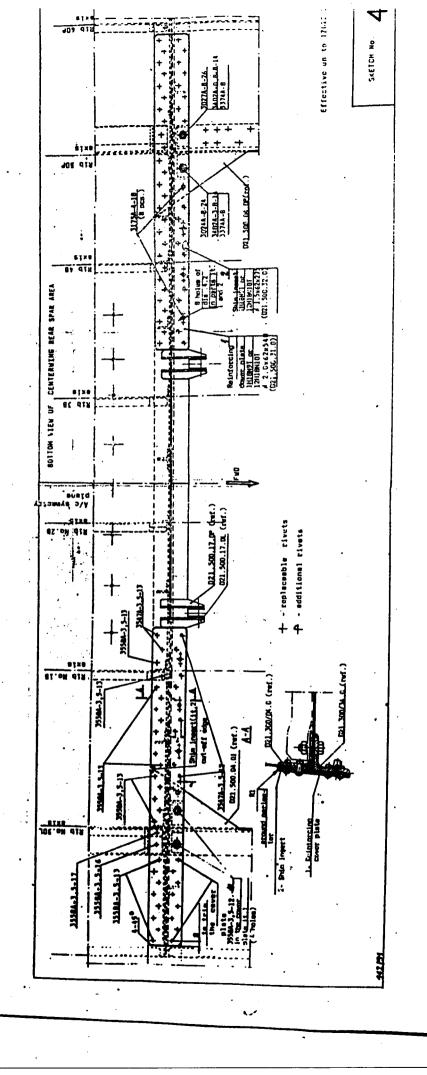
This is a tue translation from the original Polish Bulletin No. E/02.142/91.

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TO THE PROPERTY OF THE PROPERT