



Aircraft Industries



www.let.cz / pps@let.cz / +420 572 817 664
Aircraft Industries, a.s. / Na Záhonech 1177 / Kunovice 686 04 / Czech Republic

SERVICE LETTER

SL No. **L-410/015-R1**

Aeroplane Type: **L-410**

Model(s): **All models
except
L 410 NG**

Date of Issue: **Jul 11, 2024**

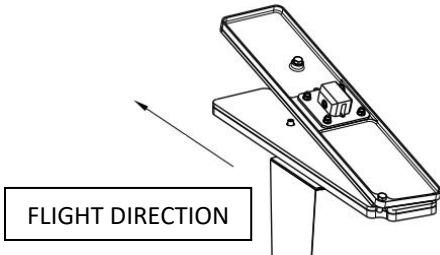
Reason: Eliminating the possibility of damage to the ailerons, elevator and rudder during parking due to strong wind.

Description: Completion of development of the new blocking elements type for ailerons, elevator and rudder.

This service letter is issued to inform L-410 the airplane operators about the possibility of using a new type of blocking elements to lock the ailerons, elevator and rudder during an airplane parking.

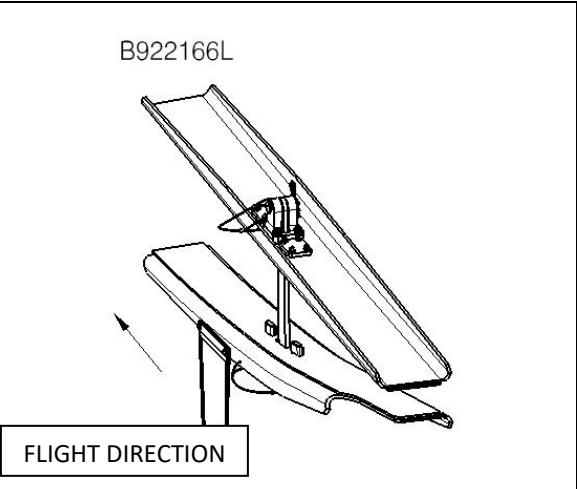
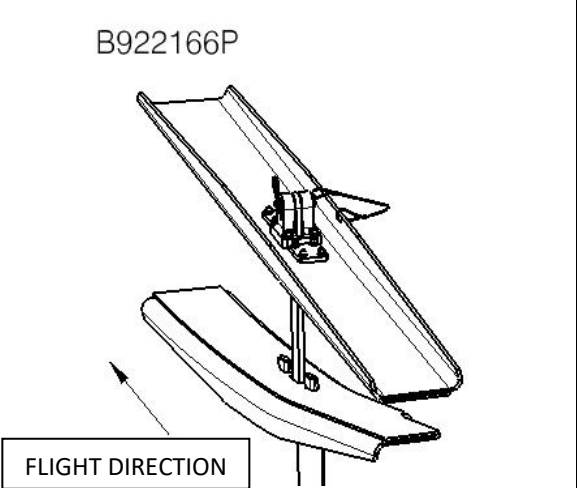
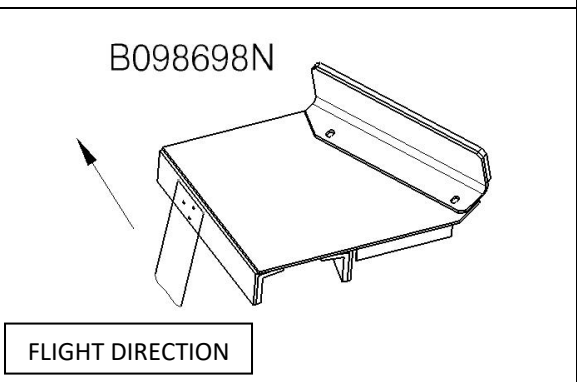
The new type of blocking elements is intended for operators, who park their airplane permanently outside the hangar or park their airplane in location where strong wind can be expected.

Aircraft Industries, a.s. has developed the following new type of blocking elements, which can be used for ailerons, elevator and rudder. Customers can order blocking elements individually according to their needs.

Name of blocking element	Drawing No.	Quantity	Pictures
The new blockade set is optional equipment			
Inside Aileron Blocking Elements	B922145L	1LH	<p style="text-align: center;">B922145L</p> 



	B922145P	1RH	<p>B922145P</p> <p>FLIGHT DIRECTION</p>
Outside Aileron Blocking Elements	B922120L	1LH	<p>B922120L</p> <p>FLIGHT DIRECTION</p>
	B922120P	1RH	<p>B922120P</p> <p>FLIGHT DIRECTION</p>
Outer Elevator Blocking Elements	B922100L	1LH	<p>B922100L</p> <p>FLIGHT DIRECTION</p>
	B922100P	1RH	<p>B922100P</p> <p>FLIGHT DIRECTION</p>

Inner Elevator Blocking Elements	B922166L	1LH	 <p>B922166L</p> <p>FLIGHT DIRECTION</p>
	B922166P	1RH	 <p>B922166P</p> <p>FLIGHT DIRECTION</p>
Rudder Blocking Element	B098698N	1	 <p>B098698N</p> <p>FLIGHT DIRECTION</p>

Note: The older type of aileron and elevator blocking elements (B922150N) are still usable.

Note: The new type of blocking elements can be ordered separately.

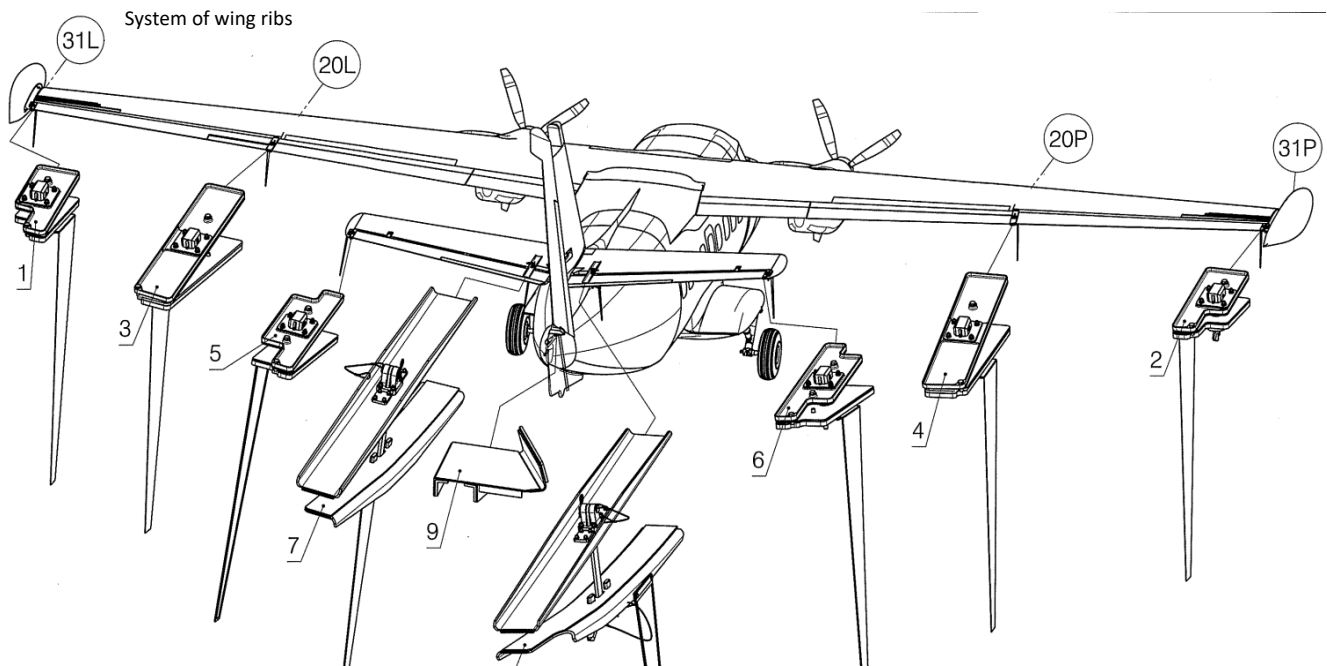
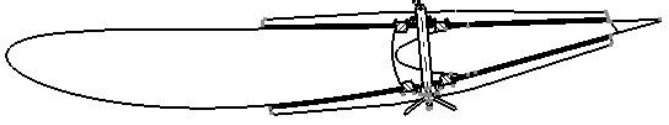
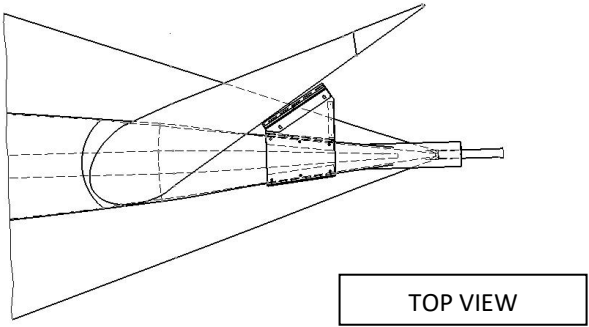


Fig. 1 Installation diagram of blocking elements

Position in installation diagram	Element's Drawing No. Location on Airplane	Section view
1	B922120L Aileron outside left	
2	B922120P Aileron outside right	
3	B922145L Aileron inside left	
4	B922145P Aileron inside right	
5	B922100L Elevator outer left	
6	B922100P Elevator outer right	

7	B922166L Elevator inner left	
8	B922166P Elevator inner right	
9	B098698N Rudder	

Ailerons blocking elements installation procedure (2+2 pcs):

Note: Always park the airplane upwind if possible.

- 1) Use stairs (e.g. B097365N) for installation of blocking elements.
- 2) If the control column in the cockpit was blocked by the B596476N blocking strut, remove it.
- 3) Set the ailerons to neutral position.
- 4) Set the aileron trim tab to neutral position.

Note: Before installation of left inside aileron blocking element, it is necessary to have the aileron trim tab in neutral position.

- 5) Before installation of blocking elements, clean the functional surfaces of the airplane that are in contact with the blocking elements (remove snow, ice etc.).
- 6) Put-on the correct type of blocking element on the ailerons (LH/RH, outside/inside), see Fig.1 Installation diagram.
- 7) Tighten the wing nut on bottom side of the blocking elements.
- 8) Check the correct installation of each blocking element.

Note: The blocking elements must not be in contact with the static electricity dischargers on control surfaces.



Outer elevator blocking elements installation procedure (2 pcs):

Note: Always park the airplane upwind if possible.

- 1) Use stairs (e.g. B097365N) for installation of blocking elements.
- 2) If the control column in the cockpit was blocked by the B596476N blocking strut, remove it.
- 3) Set the elevator to neutral position.
- 4) Before installation of blocking elements, clean the functional surfaces of the airplane that are in contact with the blocking elements (remove snow, ice etc.).
- 5) Put-on the correct type of blocking element on the elevator (outer LH/RH), see Fig.1 installation diagram.
- 6) Tighten the wing nut on bottom side of the blocking elements.
- 7) Check the correct installation of each blocking elements.

Note: The blocking elements must not be in contact with the static electricity dischargers on control surfaces.

Note: The installation of only the outer elevator blocking element is sufficient if the value of maximum expected wind does not exceed 100 km/h (53 knots).

Inner elevator blocking elements installation procedure (2 pcs):

Note: Always park the airplane upwind if possible.

- 1) Use stairs (e.g. B097365N) for installation of blocking elements.
- 2) If the control column in the cockpit was blocked by the B596476N blocking strut, remove it.
- 3) Set the elevator to neutral position.
- 4) Disconnect the upper and lower parts of the inner elevator blocking element before installation on airplane.

Procedure for disconnection:

- a) Take out *Safety pin*
 - b) Take out *Cylindrical pin*
 - c) Dismount the *Lower and Upper part* of the inner elevator blocking element
- 5) Before installation of blocking elements, clean the functional surfaces of the airplane that are in contact with the blocking elements (remove snow, ice etc.).
 - 6) Put-on the Lower and Upper part of the inner elevator blocking element on the elevator, see Fig.1 installation diagram and connect them.

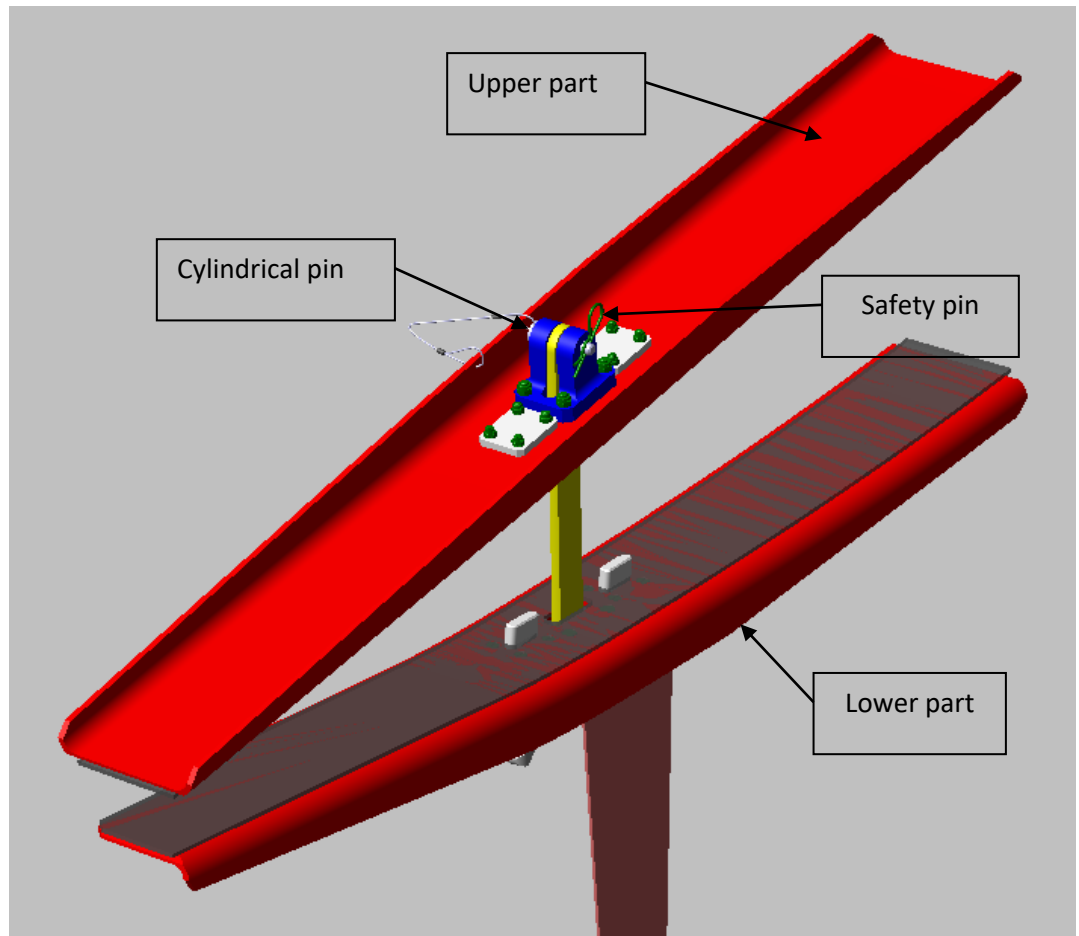


Fig. 2 Inner elevator blocking element disconnection/connection

Procedure for connection:

- a) put-on the *Lower* and *Upper part* of inner elevator blocking element on the elevator
 - b) insert the *Cylindrical pin* through the hole in the *Upper* and *Lower part*
 - c) secure *Cylindrical pin* insert the *Safety pin*
- 7) After connection of the blocking element, tighten the wing nut on bottom side of the blocking element.
- 8) Check the correct installation of each blocking elements.

Note: The installation of only the inner elevator blocking element is sufficient without install an outer elevator blocking element.



Rudder blocking element installation procedure (1 pcs):

Note: Always park the airplane upwind if possible.

- 1) Use stairs (e.g. B097365N) for installation of blocking elements.
- 2) If the control column in the cockpit was blocked by the B596476N blocking strut, remove it.
- 3) Set the rudder pedals to maximum deflection to the right.
- 4) Before installation of blocking elements, clean the functional surfaces of the airplane that are in contact with the blocking elements (remove snow, ice etc.).
- 5) Put-on the rudder blocking element between the fuselage and the rudder, see Fig.1 installation diagram.
- 6) Fasten down the rudder blocking element by the fixing belt.
- 7) Check the correct installation of the rudder blocking element.

Ailerons, Elevator and Rudder blocking elements uninstalation procedure (4+4+1 pcs):

- 1) Use stairs (e.g. B097365N) for installation of blocking elements.
- 2) Loose the wing nut on bottom side of the aileron or outer elevator blocking elements.
- 3) Remove aileron and outer elevator blocking elements from the ailerons and elevator (LH/RH).
- 4) Loose the wing nut on bottom side of the LH/RH inner elevator blocking elements, dismount it and remove.
- 5) Release the fixing belt and remove the rudder blocking element.