

## ZÁVAZNÝ SERVISNÍ BULETIN / MANDATORY SERVICE BULLETIN

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VYDAL / ISSUED BY:

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TÝKÁ SE / CLARIFICATIONS: Installation of the fuse for the flap control servo-motor.

DATUM VYDÁNÍ / DATE OF NOTICE: 4.11.2014

DATUM ÚČINNOSTI / EFFECTIVE DATE: during nearest 25h, 50h, 100h or annual service or before the ens of 2014 (according to which occurs sooner)

OMEZENÍ / LIMITATIONS: not applied

OVLIVNĚNÉ VÝROBKY / AFFECTED PRODUCTS: All TL 3000 Sirius aircraft furnished with the flap control system unit - Flopcontrol OPA

VÝROBNÍ ČÍSLA OVLIVNĚNÝCH LETADEL / AFFECTED SERIAL NUMBERS: TL 3000  
from serial number  
13 Si 77 (inclusive)  
to  
14 Si 103 (inclusive)

ČÍSLO BULETINU / NOTICE ID: 1.S.SI.2014

ČÍSLO NAHRAZENÉHO DOKUMENTU / SUPERSEDED NOTICE ID (if applicable): -

POČET STRAN / PAGES: 9

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DISTRIBUCE / DISTRIBUTION: published on the manufacturer's website - [www.tl-ultralight.com](http://www.tl-ultralight.com)

REFERENCE / REFERENCES: [www.tl-ultralight.com](http://www.tl-ultralight.com)

OPATŘENÍ / CONDITION:

During the operations of the TL 3000 Sirius fleet, it was found that by inaccurate use of the flaps, a damage of the servo-motor could occur. This condition can only take place in aircraft equipped with the flap control system unit - Flopcontrol.

With an inaccurate rotation of the flap control handle, where the handle moves outside of the firmly set positions (flap closed, take-off position and landing), the end sensors of the flap control servo-motor become inactive. The servo-motor is then ejected outside of its position limits, becomes overloaded and subsequently its damage will occur. This condition can be eliminated by inserting a fuse into the electrical circuit of the flap control system unit, which will, in case of the overload, cut off the power supply to the servo-motor.

Following the adjustment of the flap control handle into one of the set correct positions and pushing in of the fuse, complete flap control system unit function will be renewed.

The objective of the above modification is to prevent the flap control servo-motor damage and the subsequent need for its costly replacement. This Service Bulletin describes the procedure of the flap control electrical circuit modification, so that it can be performed independently by the aircraft operators.

The 7,5 A fuse can be obtained in the place of the aircraft operations or via contacting the manufacturer TL-ULTRALIGHT. Upon written request with stated delivery address and upon the payment of cost, the fuse will be distributed by the manufacturer.

In case of not complying with this bulletin, the manufacturer reserves the right to not accept any servo-motor damage claims or any further damage claims, resulting from not complying with this bulletin.



7,5 A fuse Tyco Electronics W23-X1A1G-7,5

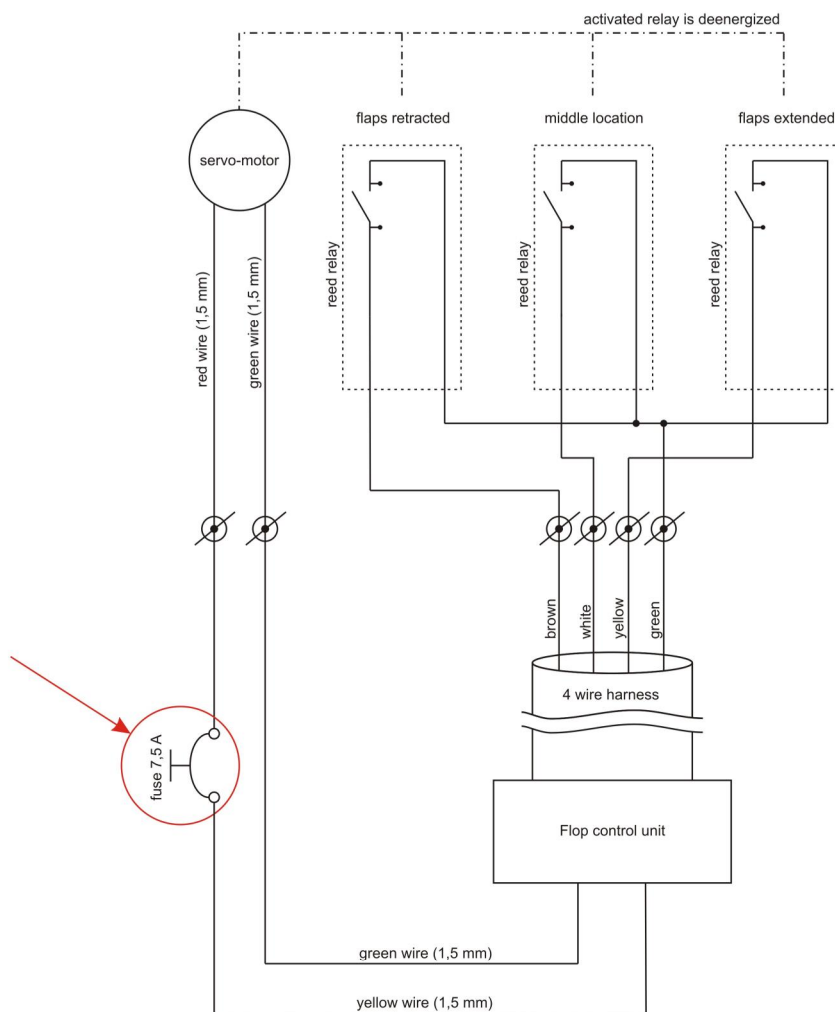
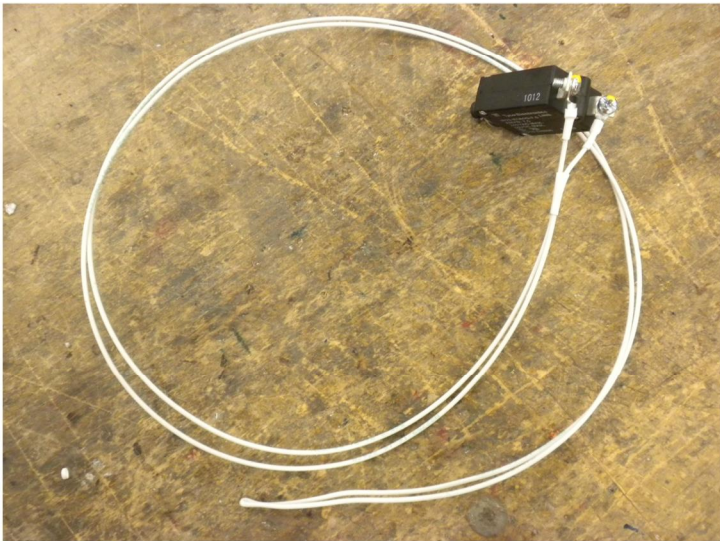
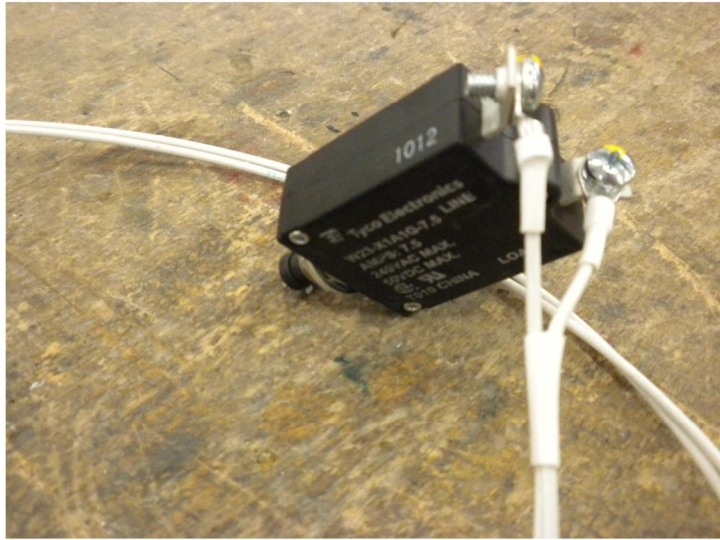


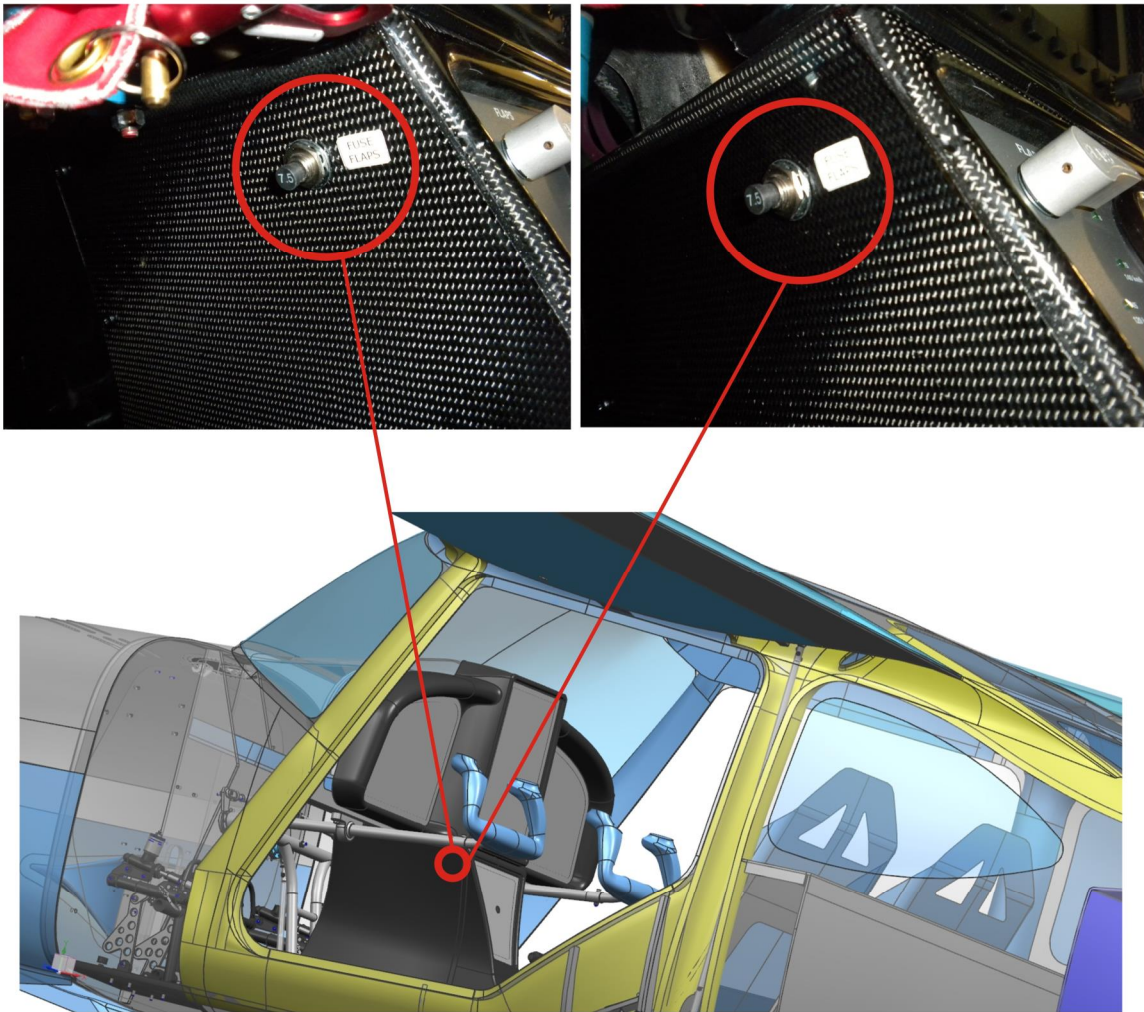
Diagram illustrating the insertion of the 7,5 A fuse into the flap control electrical circuit



MODIFICATION STEPS:

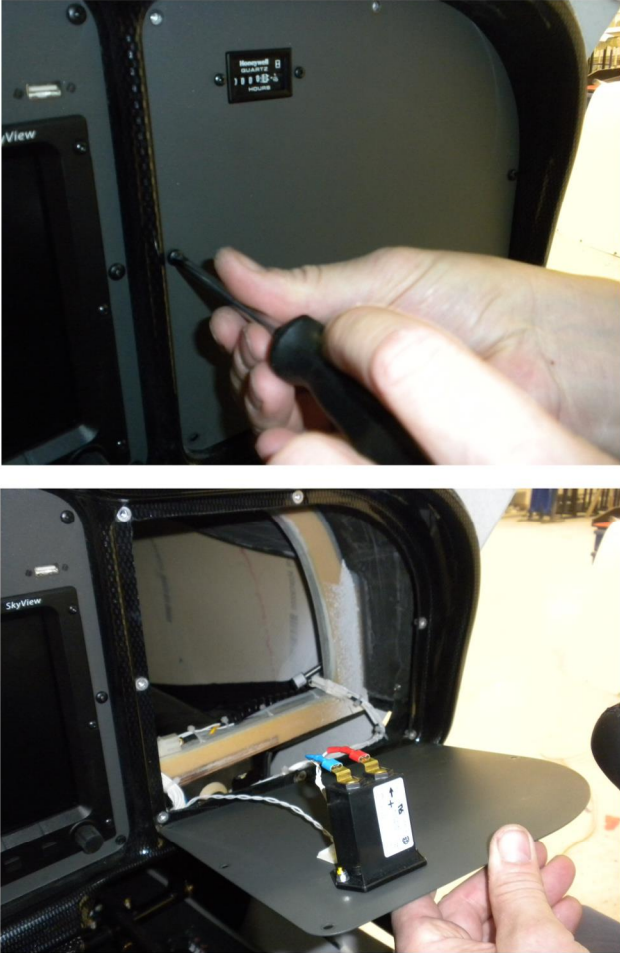
Step No.	Description of the modification steps
<p><b>1</b></p>	<p><b>The aircraft preparation</b></p> <ul style="list-style-type: none"> <li>- situate the aircraft into a suitable facility and secure the wheels with wedges</li> <li>- ensure that all switches are off and that the safety system is secured against activation</li> <li>- dismantle the top engine cover and disconnect the accumulator (+ pole)</li> </ul>
<p><b>2</b></p>	<p><b>The fuse preparation</b></p> <ul style="list-style-type: none"> <li>- prepare the 7,5 A Tyco Electronics W23-X1A1G-7,5 fuse</li> <li>- connect wires to the fuse connectors (2 x AWG 16, 2 x 600 mm délka) and secure connections as per picture below</li> </ul> <div style="text-align: center;">     </div>

MODIFICATION STEPS:

Step No.	Description of the modification steps
<p><b>3</b></p>	<p><b>Fuse installation</b></p> <p>- drill a hole into the center console (on the pilot's side) and install the fuse so that it does not obstruct free control system movement and other aircraft construction components in any way, and so that it is easily accessible by the pilot during flight (see picture below).</p> 
<p><b>4</b></p>	<p><b>A tag installation</b></p> <p>- Install a tag with the script: „ Fuse Flaps” into the center console near the fuse location.</p>




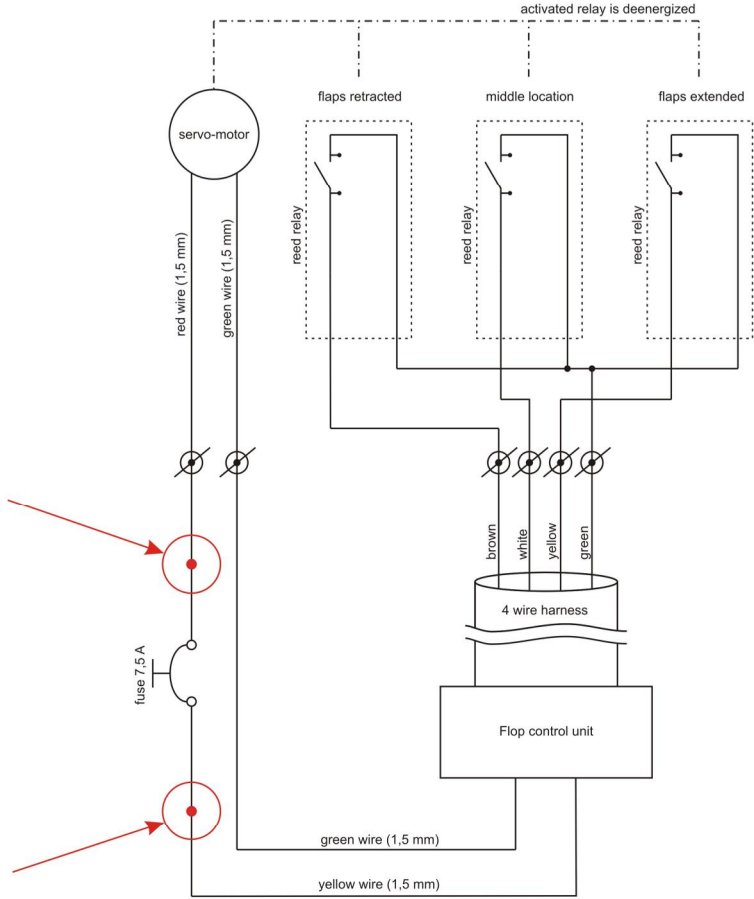
MODIFICATION STEPS:

Step No.	Description of the modification steps
<p><b>5</b></p>	<p><b>The right instrument panel disassembly</b></p> <p>- remote the right instrument panel, located in front of the co-pilot's seat, so that the wires attached to the structure frame behind the instrument panel can be accessed. The instrument panel is fix in place by 7 screws. Take caution so that you do not during the cover disassembly damage the instrument furnishing or its cabling inside the instrument panel.</p> 
<p><b>6</b></p>	<p><b>Interruption of the servo-motor control wire</b></p> <p>- using a suitable tool, cut the yellow wire of the flap control el. circuit, located on the frame behind the instrument panel. Take caution: Make sure that you are cutting the correct wire and that you will not damage any of the other wires (see pictures and the diagram on the following page).</p>

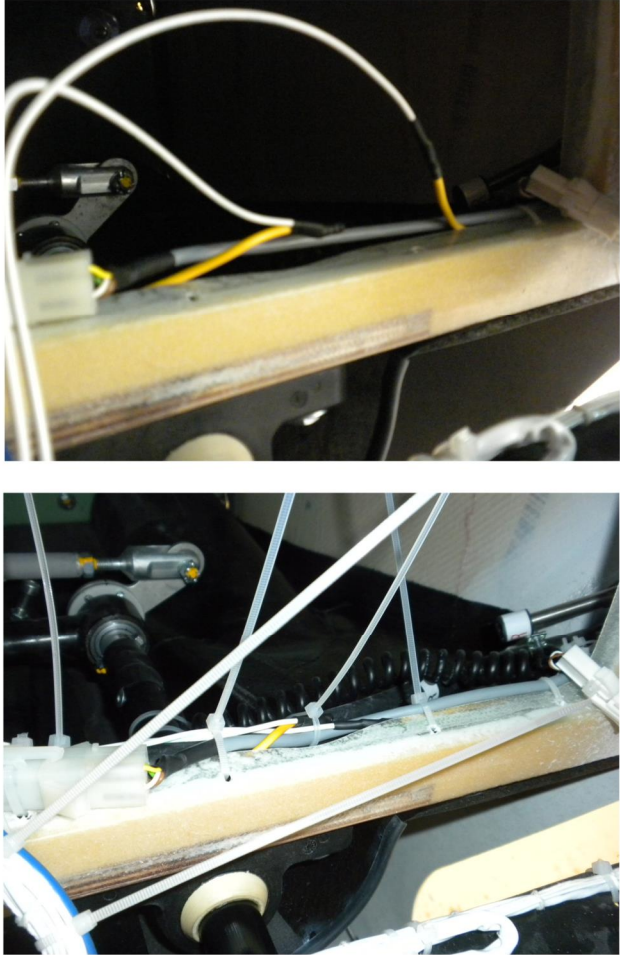
MODIFICATION STEPS:

Step No.	Description of the modification steps
	<div data-bbox="513 483 1136 947" data-label="Image"> </div> <div data-bbox="411 996 1228 2004" data-label="Diagram"> </div>

MODIFICATION STEPS:

Step No.	Description of the modification steps
<p style="font-size: 2em; font-weight: bold;">7</p>	<p style="font-weight: bold;">Insertion of the fuse into the flap control el. circuit</p> <p>- connect the wires of the fuse into the interrupted flap control circuit.</p>  

MODIFICATION STEPS:

Step No.	Description of the modification steps
<p>8</p>	<p><b>Isolation and attaching of the wires</b></p> <p>- isolate and attach the wires onto structural frame behind the instrument panel.</p> <div style="text-align: center;">  </div>
<p>9</p>	<p><b>Installation of the right instrument panel</b></p> <p>- install back the right instrument panel (dismantled in step no. 5)</p>
<p>10</p>	<p><b>Connecting the battery</b></p> <p>- connect back the accumulator ( + pole)</p>



