

ZÁVAZNÝ SERVISNÍ BULETIN / MANDATORY SERVICE BULLETIN

VYDAL / ISSUED BY:

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TÝKÁ SE / CLARIFICATIONS: Replacing the brake disc top hat washers in the main landing gear hub.

DATUM VYDÁNÍ / DATE OF NOTICE: 5.2.2015

DATUM ÚČINNOSTI / EFFECTIVE DATE: during nearest 25h, 50h, 100h or annual service or by the 1st of March 2015 latest (as per which occurs sooner).

OMEZENÍ / LIMITATIONS: non-applicable

OVLIVNĚNÉ VÝROBKY / AFFECTED PRODUCTS: All TL 2000 and TL 3000 aircraft with main landing gear wheels fitted with the brake disc top hat washers in the main landing gear hub.

VÝROBNÍ ČÍSLA OVLIVNĚNÝCH LETADEL / AFFECTED SERIAL NUMBERS: As per individual main landing gear wheel type.

ČÍSLO BULETINU / NOTICE ID: 2.S.SI_ST.2015

ČÍSLO NAHRAZENÉHO DOKUMENTU / SUPERSEDED NOTICE ID (if applicable): -

POČET STRAN / PAGES: 5

DISTRIBUCE / DISTRIBUTION: published on the manufacturer's website www.tl-ultralight.com

REFERENCE / REFERENCES: www.tl-ultralight.com

OPATŘENÍ / CONDITION:

During the operation of the TL 3000 Sirius and the TL 2000 Sting fleet of aircraft that have been fitted with the main landing gear wheels with the brake disc top hat washers in the main landing gear hub, it was found that with an overall brake pad wear exceeding 3 mm, the contact between the rotating washers in the wheel hub and the brake caliper pistons could occur.


As a solution to this condition, the TL-ULTRALIGHT suggests the replacement of the six original top hat washers on each wheel with the new version of top hat washers. At the same time, it is also necessary to replace the M5x12 screws for the shorter M5x10 screws, with which the washers are attached to the wheel hub. This modification will allow for a better leeway space between the critical parts of the wheel, preventing their contact prior to reaching the permitted brake pad wear limit.

This SB contains a step by step main landing gear wheels modification manual, so that it can be correctly performed by the aircraft operator. It is not necessary to dismantle the wheel to perform the SB. Removal of the wheel fairings will be required only.

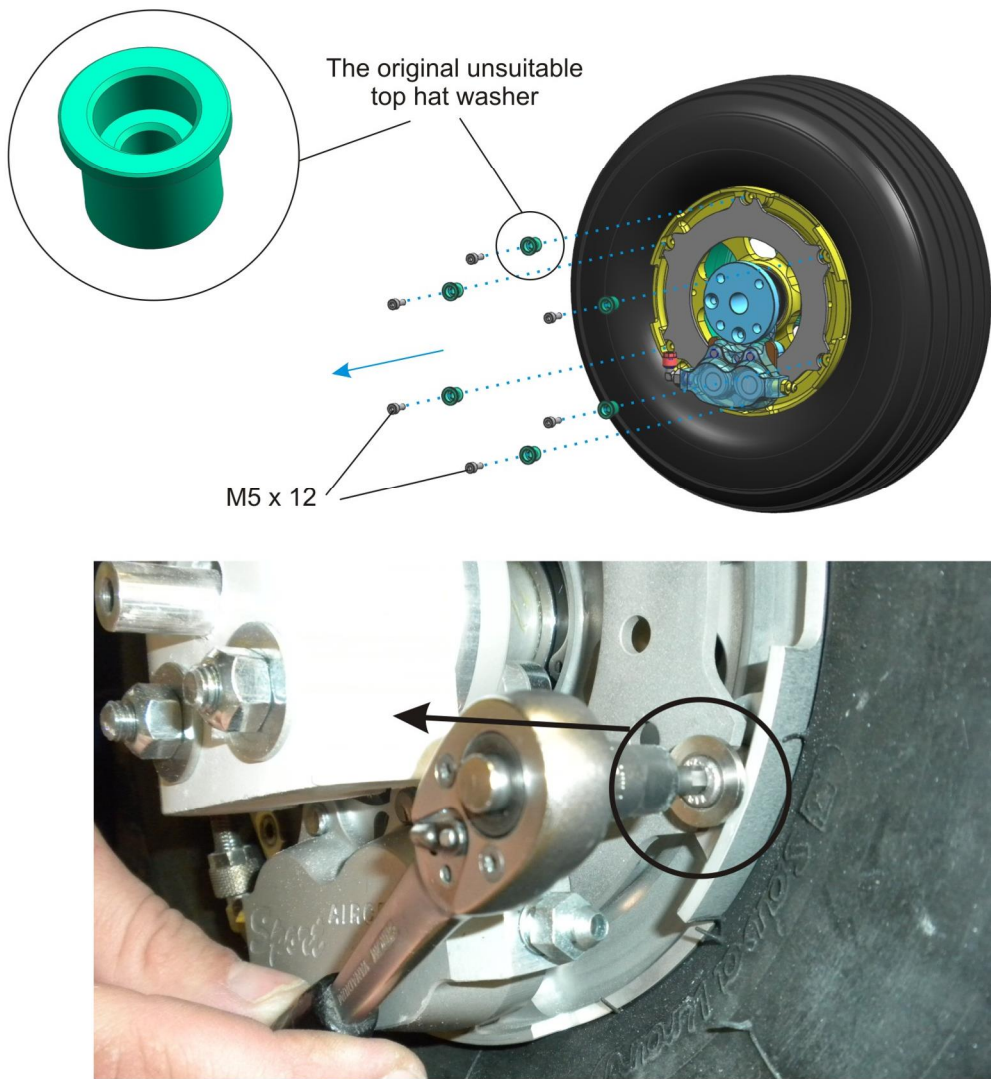
The new washers and screws can be obtained via the manufacturer TL-ULTRALIGHT. Upon written request with stated delivery address and upon the payment of costs, the washers and screws will be supplied by the manufacturer.

In case of not complying with this bulletin, the manufacturer reserves the right to not accept any wheel, caliper or any other aircraft part damage claims, resulting from not complying with this bulletin.

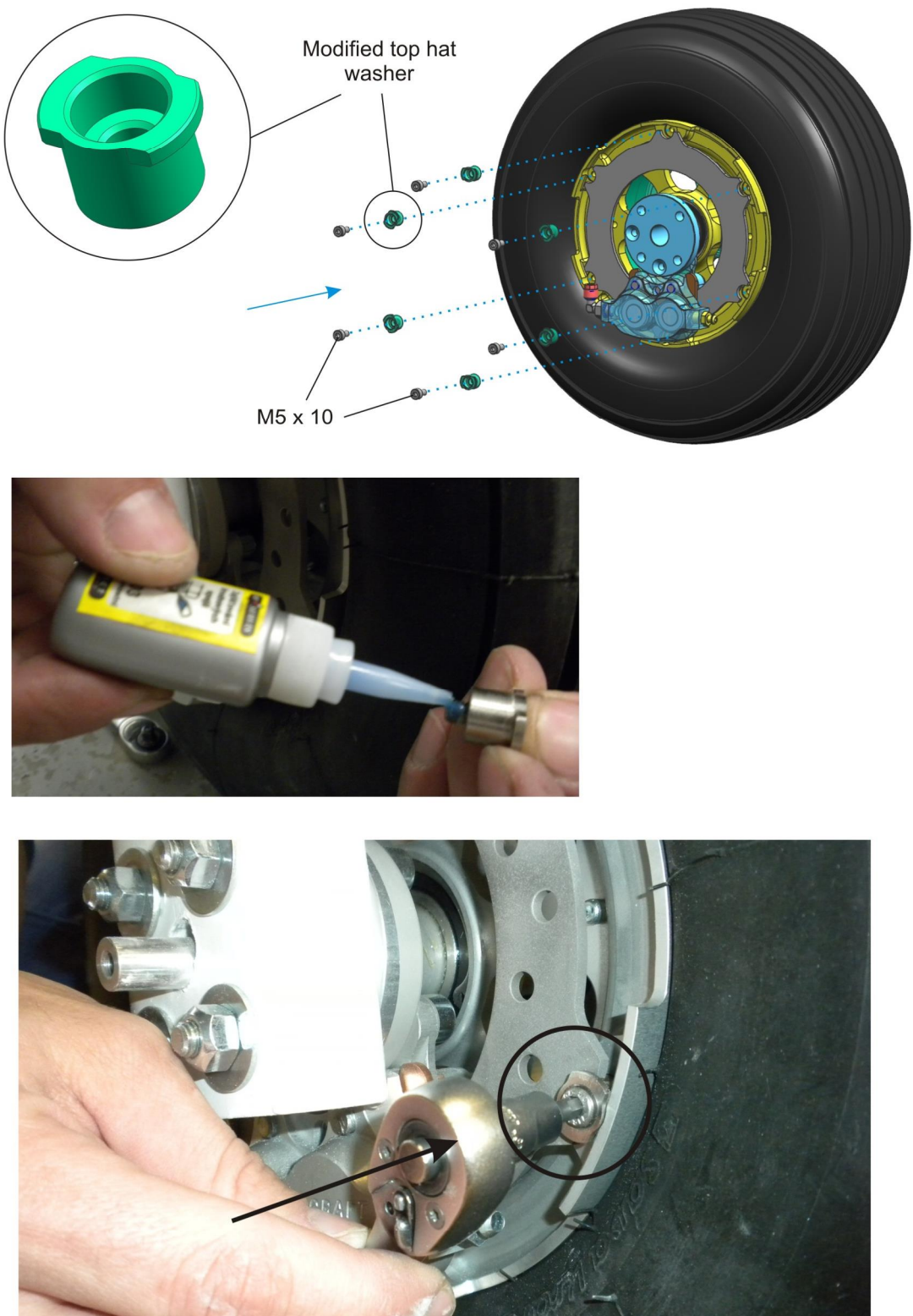
MODIFICATION STEPS:

Step No.	Description of the modification steps
1	Aircraft preparation <ul style="list-style-type: none"> - position the aircraft within a suitable facility and secure the wheels with wedges - ensure that all switches are off and that the safety system is secured against activation
2	Removal of the main wheel fairings <ul style="list-style-type: none"> - remove the outer part of the fairings - partially remove the inner part of the fairings so that upon the screw removal you are able to slide the inner fairing up the undercarriage leg 
3	Removal of the original top hat washers <ul style="list-style-type: none"> - remove the top hat washers from the main wheel hub. The washers are attached to the hub by M5 x 12 screws. There are 6 washers total attached to the main wheel that need to be removed

MODIFICATION STEPS:

Step No.	Description of the modification steps
	 <p>The diagram illustrates the replacement of the original unsuitable top hat washers (green) with modified washers (blue) on a wheel hub. The original washers are shown in a circular inset. The modified washers are shown in a circular inset. The diagram also shows the M5 x 12 screws being removed from the hub. The photo shows a hand using a screwdriver to remove the original top hat washer from the hub. The modified washer is shown being installed in its place.</p>
4	<p>Instalation of the modified washers</p> <ul style="list-style-type: none"> - replace the original washers with the new modified washers (6 pcs per one main wheel). Use the new M5 x 10 screws (6 pcs per one main wheel). Secure the screw connections with Loctite. - do not use the M5 x 12 screws removed in step 3. The new M5 x 10 screws are to be used only. The use of the original screws will result in functionality reduction and may lead to brake damage.

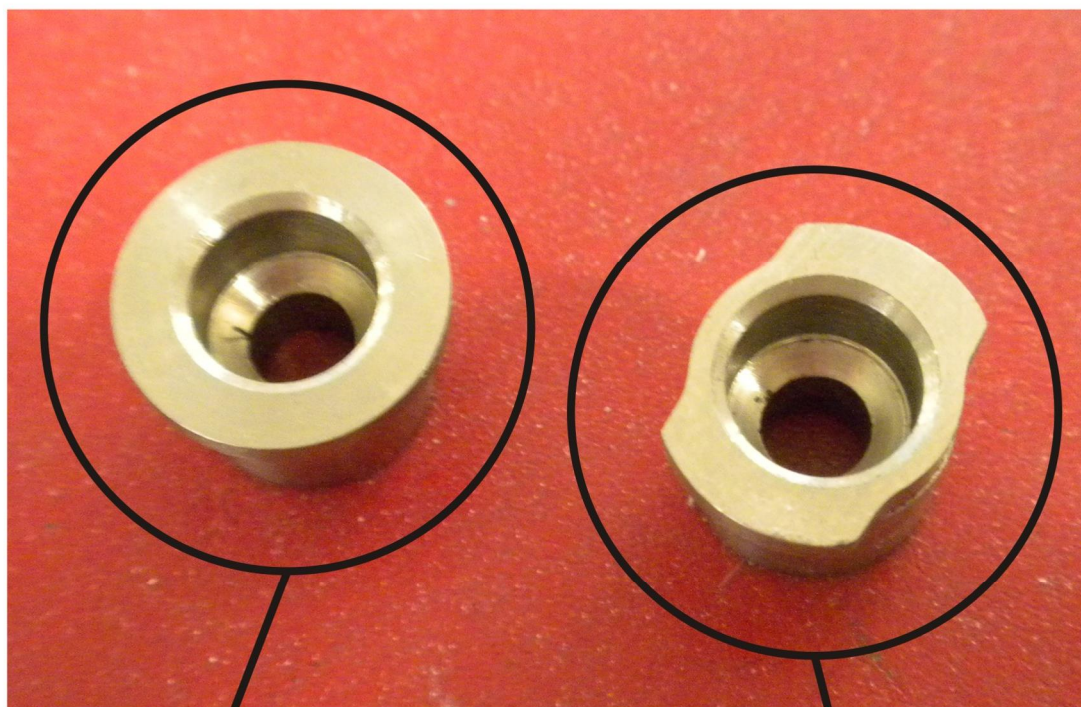
MODIFICATION STEPS:

Step No.	Description of the modification steps
	 <p>The diagram illustrates the modification steps for the wheel assembly. It shows a green 'Modified top hat washer' and 'M5 x 10' bolts being installed on a wheel hub. Below the diagram are two photographs: the first shows a hand applying blue Loctite to a bolt, and the second shows a hand installing the modified top hat washer onto the wheel hub.</p>

MODIFICATION STEPS:

Step No.	Description of the modification steps
5	Brake functionality check - check the correct functionality of the brakes and the unrestricted rotation of the main landing gear wheels
6	Installation of the wheel fairings - install back the inner and outer wheel fairings..

Note: Repeat the above described procedure with the second main wheel.



The original unsuitable top hat washer
(necessary to replace with the modified option)

Modified top hat washer