



www.flylightning.net email: info@flylightning.net phone: 931-680-1781
2842 Highway 231 North, Shelbyville, TN 37160

SERVICE BULLETIN	
Service Bulletin #	AASB-01-8-2010
Superseded Bulletin #	N/A
Issue Date	6-8-2010
Effective Date	6-8-2010
Limitations for Completion	Earliest Opportunity
Make & Model Affected	Lightning LS-1 SLSA and ELSA
	SN76 thru SN98
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1. Applicability:

All aircraft equipped with the Matco main wheel model WHLW51CC using NordLoc washer and button head cap screw attachment of the disc. The wheel half effected is the side which the brake disc attaches. The effected unit are those that have the disc bolts hole that **ARE NOT** drilled all the way thru the lug (those having a blind hole). Wheels with the hole drilled completely through the lug or that do not use the NordLoc washer are not effected by this service bulletin. The SN range of LS-1 aircraft are SN76 though SN98.

2. Background:

The brake disc is attached to the wheel half with a bolt. This button head cap screw is held captive by the use of a NordLoc washer. In wheels where the lug is not drilled through the bolt will bottom out before engaging the NordLoc washer and reaching full torque. The bolt than can back out, this will result in damage to the wheel half and or caliper if the bolt contacts during operation.

This service bulletin is direct from Matco Mfg. The full service bulletin can be found at www.matcomfg.com .

3. Compliance with- Implementation Schedule.

An inspection should be made before the next flight. If it is determined that the wheel is affected by the service bulletin than service must be completed at the earliest convenience. Loosening of the disc bolt holding the disc can occur without this replacement.



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4. Procedure:

1. Source the replacement wheels from Matco Mfg or Arion Aircraft, LLC.
2. Remove wheel pant.
3. Jack aircraft under inboard axle stub.
4. Remove Disc to wheel bolts to free the brake disc.
5. Remove axle nut and cotter key.
6. Remove tire and wheel assembly.
7. Disassemble the Tire/wheel assembly
8. Assemble the wheel with tire and tube.
9. Torque wheel half through bolts to 99" lbs as per Matco mfg.
10. Inflate tire to 28psi.
11. Install wheel on axle and tighten axle nut until low drag is obtained.
12. Install cotter key and wheel pant bracket.
13. Attach Brake disc to wheel using the button head cap screws and NordLoc washers.
14. Torque bolts as specified by Matco.
15. Install wheel pant.
16. Procedure is identical for the other main wheel assembly.



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5. Level of certification required for SLSA Lightning LS-1.

Any work called for by this letter must be carried out by personnel holding a Light Sport Repairman / Maintenance rating or a licensed A&P mechanic. On completion of the work, the authorized repairman must note the completion of the actions required by this letter in the aircraft's maintenance logbook. This note should specify what work was carried out, reference this Notification, indicate the date of the work and the identity (including license number where appropriate) of the person carrying out the work.