



SAFETY ALERT / SAFETY DIRECTIVE

SERVICE DOCUMENT SA 1_2017 Sky Arrow Issue 1		DATE 21st June, 2017	
APPROVAL REF.		<input checked="" type="checkbox"/>	<input type="checkbox"/>
		CHANGE / REPAIR	
SUBJECT: NOSE LANDING GEAR WITH BERINGER WHEEL			
APPLICABILITY: SKY ARROW LSA SERIES			
This Service Document is:			
<input checked="" type="checkbox"/>	MANDATORY (1)	<input type="checkbox"/>	RECOMMENDED (2)
		<input type="checkbox"/>	OPTIONAL (3)
<ol style="list-style-type: none">1. Failing to comply with the mandatory Service Document may immediately get the aircraft not airworthy.2. Failing to comply with the recommended Service Document does not directly reduce the flight safety of the aircraft.3. Failing to comply with the optional Service Document does not affect the safety of the aircraft. Compliance improves the comfort or the performance of the aircraft.			
COMPLIANCE TERMS: This Service Document is MANDATORY			
STATEMENT / ADDITIONAL NOTES: The technical content of this document is issued under the alternative procedure to DOA ref. EASA.AP180, approved by EASA.			
<p style="text-align: center;">NOTICE</p> <p>This document, drawings, specifications or descriptions together with all information and know-how disclosed hereby are considered proprietary to and the exclusive property of MAGNAGHI AERONAUTICA SpA, unless otherwise indicated to be property of an associate co-producer, contractor, vendor and/or supplier. No disclosure to other, reproduction, copy or other use of any part of this document or the information contained herein is to be made and no manufacture sale or use of any device, process, trade secret or composition of matter disclosed herein whether patented or not, shall be made except by written authorization of Magnaghi Aeronautica SpA.</p>			
DRAFTED BY: Michele Pecchia (Airworthiness)		APPROVED BY: Giorgio Iannotti (Head of Design Organization)	



1. PREMISE AND SCOPE

This Safety Alert has been released after inconvenient on Sky Arrow LSA serial number LSA023 occurred on 2nd June 2017 and following Critical Design Review performed for Nose Landing Gear configuration.

This Safety Alert aims to supply to Sky Arrow customer fleet information about any applicable limitation and technical procedures for updating of Nose Landing Gear (NLG) configuration.

From serial number LSA022 on, Magnaghi Aeronautica SpA proposed new set of Nose Landing Gear configured with Beringer wheels, to enhance ground performances of Sky Arrow LSA series.

Latest revision of this Safety Alert is available through the website www.skayarrow.it.

2. INFORMATION ON LABOUR

The activities described in this Safety Alert must be managed and performed by an approved LSA Powerplant & Airframe mechanic. Estimated needed time, man – hours: 2 h. No special tool is required.

3. INVOLVED DOCUMENTS

3.1 Airplane docs

- Pilot's Operating Handbook - AFM-001-2012 Sky Arrow-Issue1, currently at rev. 1 dated 15th June, 2015
- Airplane Maintenance Manual - AMM-001-2012 Sky Arrow-Issue 1, currently at rev. 1 dated 15th June, 2015.

4. APPLICABILITY

This Safety Alert is applicable to Sky Arrow LSA series, from serial number LSA022 (included) to LSA028 (included), with Beringer wheel on the NLG; affected aircraft have been delivered to USA and Brazil.



5. UPDATING OF NOSE LANDING GEAR INSTALLATION

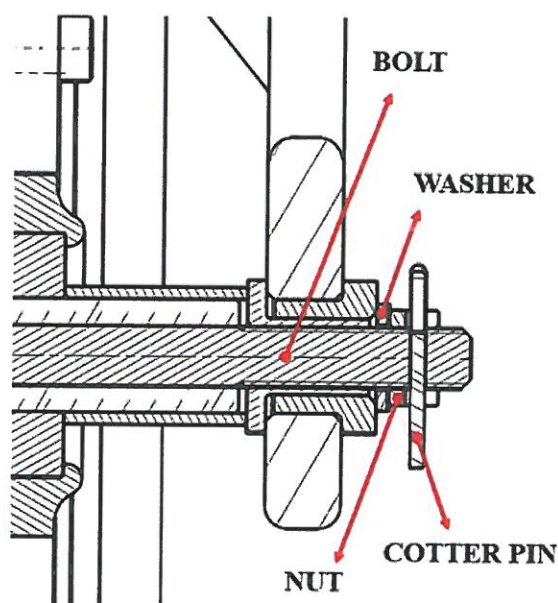
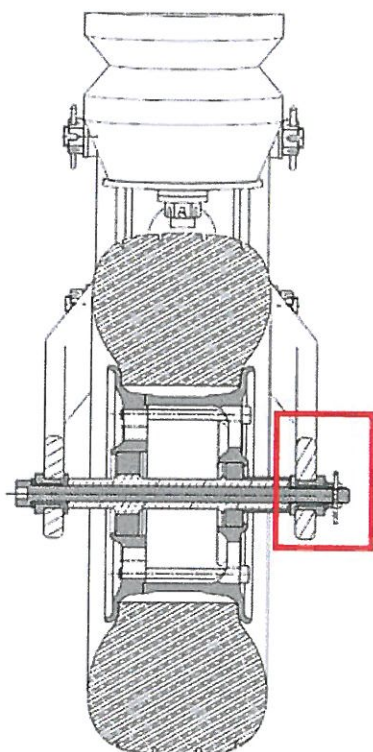
All the owner / operators of aircraft Sky Arrow LSA series affected by this Safety Alert (see Para. 4) must contact manufacturer Magnaghi Aeronautica SpA to get information about the updating of configuration of NLG, through the email address contact@skyarrow.it.

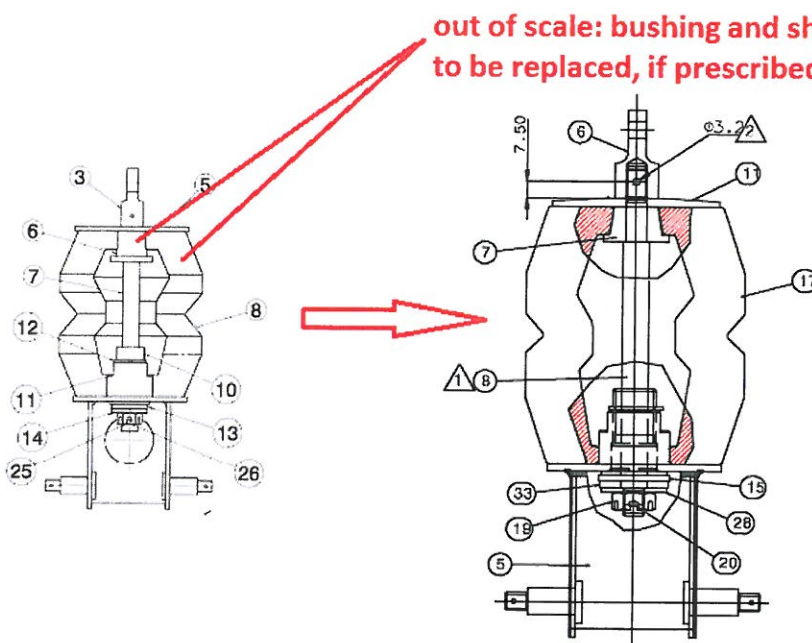
The owner / operator must refer to the link to this Safety Alert in the subject and provide the following data:

- aircraft serial number
- registration marks
- flight hours
- full data of owner / operator, including shipment address.

Correspondingly, the manufacturer shall check the NLG configuration of the affected aircraft and Magnaghi shall confirm about which of the following prescription is applicable:

- the NLG bolt, nut and washer Beringer part number AXP-003.1 (part of kit coded 12COPM401) must be replaced with newer axle (with longer shank), nut, washer, cotter pin parts;
- if applicable, according to the serial number of the affected aircraft, Magnaghi shall also prescribe the replacement of shock absorber R01010-35/01 (coming from Angst Pfister EE 132/110 A, part number 12.2102.0315) with part number R01010-35/00 (coming from Angst Pfister EE 130/100 B, part number 12.2102.0314).





Job must be performed according to prescriptions at Section 32 of Airplane Maintenance Manual, rev. 1 dated 15th June, 2015 or following.

Updating must be properly recorded on the aircraft logbook.

5.1 Nose tire

It is here also confirmed that advised tubeless tire for Sky Arrow aircraft with Beringer wheel on the nose landing gear (see Para. 4) is 10x3.50-4" from AeroClassic, (Beringer part number PAG06).

6. TERMS OF APPLICABILITY

Immediately (before next flight) remove and inspect with a magnifying lens 10X the nose wheel axle, especially checking there is no crack starting from the beginning of threads; if initial crack is **found** resulting from the inspection, aircraft must be grounded **until new parts are delivered by Magnaghi and installed**, as per Para. 5. If nose wheel axle is detected whole, compliance with this Safety Alert by upgrading the nose landing gear as per Para. 5 must be **completed** within next 10 fh since the release date of the Safety Alert itself or at next maintenance inspection, whichever occurs first.

7. MATERIALS

Needed materials and consumables will be provided to eligible owners / operators at Magnaghi's charge. Working hours for updating of configuration of NLG are at customer's charge.