

Service Bulletin

Starair Aircraft Co., Ltd.

Document No.: 2024-SA60L-32-01

Ver.: 01

Date: June 14, 2024

Subjct	Replacement of nose wheel support shaft
Category	Important
Applicability	This bulletin (English version) applies to the Aurora SA60L light sport aircraft listed in Attached Table 1.
Finish Time	Aircraft listed in Attached Table 1 shall complete the replacement of the nose wheel support shaft by April 30, 2025.
Reason	<p>The nose wheel assembly comprises the following components: nose wheel support axle, front landing wheel articulated fork, aluminum axle bushing, adjustment shim, bearings, wheel hub, and fastening nuts. Under normal operating conditions, the nose wheel support axle is designed to withstand ground ultimate loads, which has been rigorously validated through testing. However, improper installation procedures or exposure to hard landing scenarios may subject the axle to stresses exceeding its design limits, potentially resulting in structural failure.</p> <p>To enhance operational safety, our company has implemented structural reinforcement measures to the nose wheel support axle (Part Number: 304020001025). All applicable aircraft within the specified service scope are required to replace existing axles with our upgraded version.</p> <div>Original Issuance Date: March 28, 2025Effective Date: March 28, 2025</div>
Required Action(s)	1. Affected component is the nose wheel Support Axle (P/N: 304020001025), referenced as: Item 11 in Figure 5-10 of 8168AAFJ0002 (Rev. A0) 《Aurora SA60L & Aurora SA60L-iS Maintenance Manual》 ; Item 11 in Figure 4-4 of 8J33AAFJ0002 (Rev. A2) 《Aurora SA70L & Aurora SA70L-iS Maintenance Manual》 ; Item 11 in Figure 5-10 of

8J10AAFJ0002 (Rev. A0) 《Aurora SA60L-T Maintenance Manual》.

2. After receiving this service bulletin, the aircraft within the scope of application of Schedule 1 must remove the nose wheel support shaft before the next flight. Conduct a thorough inspection of the axle. If no defects are detected, reinstall per the applicable Maintenance Manual procedures. Apply LOCTITE 243 thread locking compound to the threaded area, torque fasteners to 24 N • m. The replacement of the nose wheel support shaft will be completed by April 30, 2024.

3. After receiving the parts provided by our company free of charge, the aircraft owner shall replace the nose wheel support shaft by himself. The list of removed parts and replace parts is as follows:

3.1 Dismantled parts:

No.	Material No.	Name	quantity	notes
1	305060000933	Left Front Wheel Axle Bushing	1 piece	
2	305060000934	Right Front Wheel Axle Bushing	1 piece	
3	304020001025	Front Wheel Support Axle	1 piece	
4	701309006027	Screw M6X25-ZnD (GB/T 818)	1 piece	

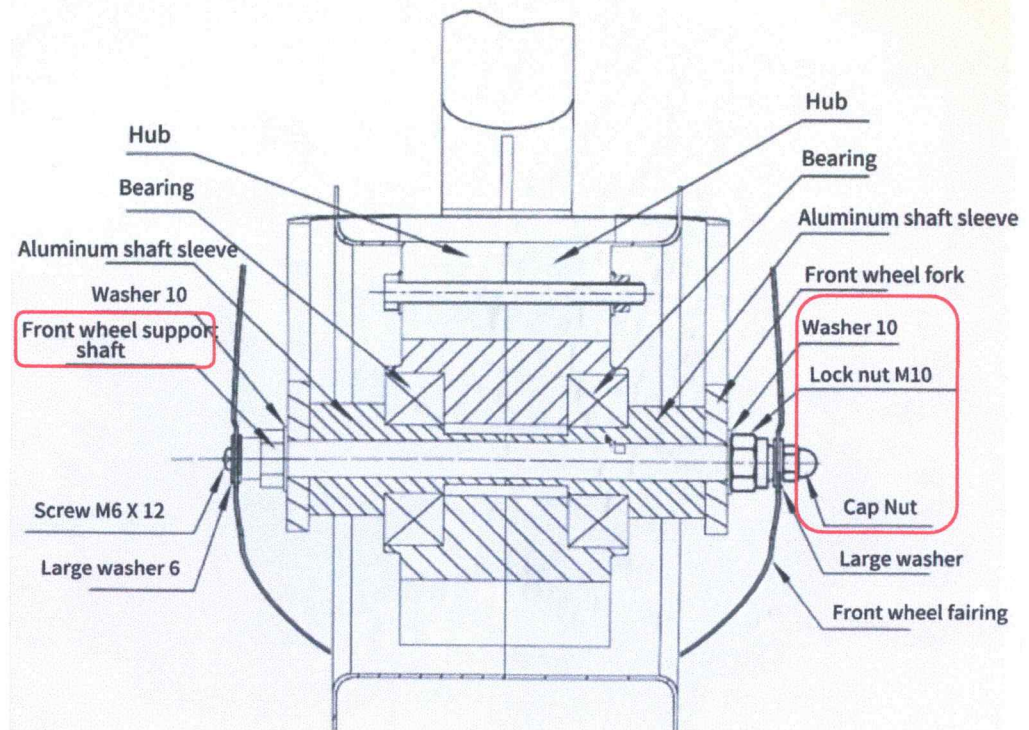
3.2 Replacement parts:

No.	Material No.	Name	quantity	notes
1	3168000168	Front Wheel Support Axle	1 piece	
2	70142201001	Type I Hexagon Nut with Non-Metallic Insert (Lock Nut) M10 (GB/T 889.1)	1 piece	Torque value: 24 N • m
3	70150401001	Plain Washer (Size 10) (GB/T 97.1)	1 piece	
4	70150600601	Spring Washer (Size 6) (GB/T 96.1)	2 piece	
5	7110001075	Cap Nut M6-6 (GB/T 923)	1 piece	

4. Installation reference follow the "Front Wheel Removal & Installation" chapter in the latest applicable Maintenance Manual.

5. Upgraded Axle Installation Procedure: replace components as indicated in the enclosed diagram. Install the front wheel support axle from left to right as shown. Apply LOCTITE 243 to the M10 threaded area and torque the lock nut to 24 N • m.

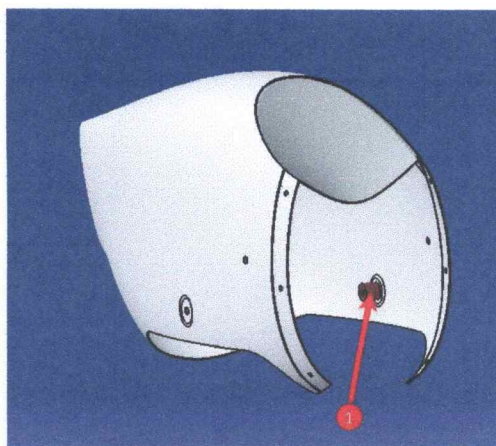
Cutaway view of the front wheel



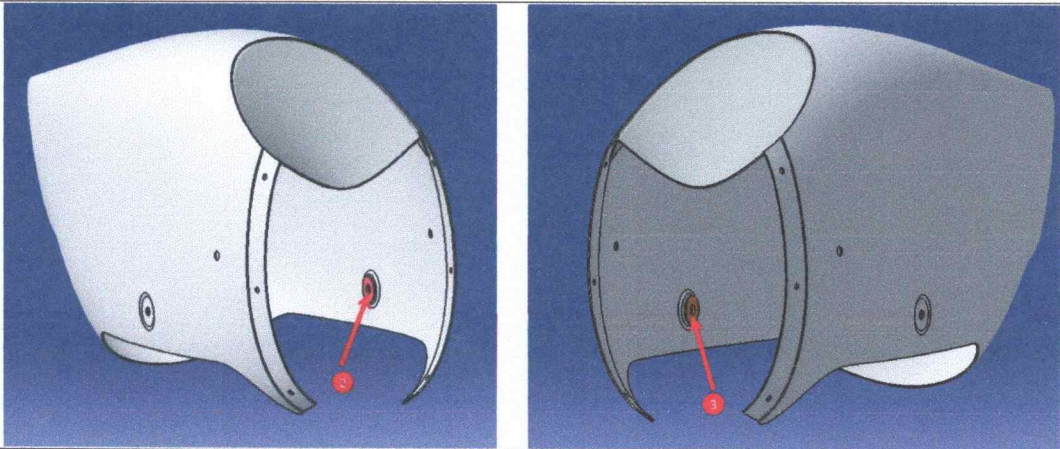
6. After the execution is completed, it shall be recorded in the section of "Service Bulletin Execution Log".

7. Modification of the front wheel fairing (Part Number: 334020000100): As shown in the figure below, remove Part No. 1, and bond an M8 GB/T96.1 washer with structural adhesive at the locations of mounting holes No. 2 and 3 on both sides.

Before modification:



After modification:

		
Reference Documents	8168AAFJ0002 (Rev. A1) 《Aurora SA60L & Aurora SA60L-iS Maintenance Manual》	
Tools	16mm open-end wrench, 17mm open-end wrench, Torque wrench (ISO 6789 Class B calibrated)	
Weight and Balance Impact	No impact	
Special tools and equipment	None	
Contact Information	phone number: 4006635288	mail address: safety@sunward.cc
Approval	This service bulletin has been approved.	



