

Czech Sport Aircraft a.s.	SERVICE BULLETIN	Czech Sport Aircraft a.s. Na Záhonech 1177/212, 686 04 Kunovice Czech Republic office@czechsportaircraft.com
No. SB-CR-021		Rev.: -
Date: 2014-07-10		
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MODEL AFFECTED:	PS-28 Cruiser / SportCruiser / PiperSport aircraft with the NLG SG0270N.
SUBJECT:	Replacement of the nose landing gear leg.
AIRCRAFT AFFECTED:	All PS-28 Cruiser / SportCruiser / PiperSport aircraft with the NLG SG0270N produced.
COMPLIANCE:	According to aircraft owner decision - depending on service conditions

DESCRIPTION:

This Service Bulletin contains instructions for the replacement of the nose landing gear (NLG).

APPROVAL:

Installation of Improved Nose Landing Gear assembly Dwg. No. SG0300N is EASA approved as a Minor Change Approval 10048185, dated 18 February 2014.

AUTHORISATION TO PERFORM:

US: Repairman (LS-M) or Mechanic (A&P)

Europe & Elsewhere: EASA Part M or Part 145 Maintenance organization.

REASON:

Some PS-28 Cruiser / SportCruiser / PiperSport aircraft have developed cracks in the bottom side of the lower section of the nose landing gear (NLG) SG0270N. To address this potential condition, CSA has issued service bulletin SB-CR-016 that prescribes an inspection of the of the nose landing gear SG0270N. Subsequently, CSA have developed an improved NLG SG0300N, which has better fatigue-resistant properties.

For the reasons described above, CSA recommends replacement of the NLG SG0270N with an improved NLG SG0300N especially on aircraft used in intensive flight training activity and operated from unpaved runways.

COMPLIANCE:

According to aircraft owner decision

MANPOWER:

Replacement – Nose Landing Gear Leg: 2 man-hours

WEIGHT AND BALANCE:

Affected

ELECTRICAL LOAD DATA:

Not affected

REFERENCES:

- [1] PS-28 Cruiser / SportCruiser Maintenance Manual, CR-MM-1-0-00, Rev. 9.
- [2] SportCruiser / PiperSport Airplane Maintenance Manual, SC-AMM-1-0-00, Rev. 3.
- [3] PS-28 Cruiser, SportCruiser, PiperSport Illustrated Parts Catalogue, CR-IPC-1-0-00.
- [4] AC 43.12-1B, Acceptable Methods, Techniques, and Practices – Aircraft Inspection and Repair.

MATERIAL:

The following parts are required to meet the terminating action requirement for this Service Bulletin. Parts can be obtained from airplane manufacturer. Order NLG No. SG03000N.

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ACCOMPLISHMENT INSTRUCTIONS:

- A. Remove key from ignition switch.
- B. Disconnect battery, support the front part of the fuselage.
- C. Remove nose wheel fairing according to [1] or [2], Chapter 8 (see the REFERENCES).
- D. Remove nose landing gear SG0270 N according to [1] or [2], Chapter 8.
- E. Install new nose landing gear SG0300N according to [1] or [2], Chapter 8.
- F. Install nose wheel fairing according to [1] or [2], Chapter 8.
- G. Connect battery.
- H. Restore aircraft to the airworthy condition.
- I. Weigh the aircraft and calculate the center of gravity; write data to the POH. If the empty aircraft C. G. value exceeds the permissible tolerance, contact aircraft manufacturer.
- J. Update the aircraft maintenance records to reflect the compliance with this Service Bulletin.

APPROVAL:

This Service Bulletin is approved by:

Title	Head of the Design Organisation	Airworthiness Manager
Name	Jiří Konečný	Marek Kotolan
Hand written signature		