

# MANDATORY SERVICE BULLETIN

## REVISION RECORD

REV	DATE	PAGE	CHANGE DESCRIPTION
00	N/A	All	Revision 00 of this Service Bulletin was not released to the field.
01	06/06/2018	All	Initial release to the field
02	07/20/2021	All	Updated document to Daher format.
		2	SN18-01 Document Title Was: New Nose Landing Gear Fork Availability SN18-01 Document Title Is: New Nose Landing Gear Fork
			Updated Inspection Interval in Sections 1(b) and 2(c) from 100 hours to 200 hours TIS

## SUBJECT

Nose Landing Gear (NLG) Fork Inspection.

## EFFECTIVITY

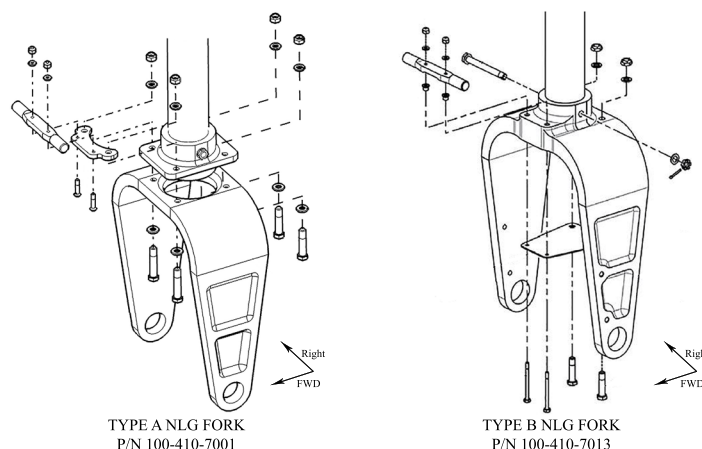
Original Effective Date: 06/12/2018

Serial Range: Airplane serial range 100-0001 and subsequent, which are:

- equipped with NLG Fork P/N 100-410-7001 and;
- certificated in any category.

## SUMMARY

Airplane serial numbers (S/N) 100-0001 through 100-0217 were delivered with the NLG Fork P/N 100-410-7001 (identified as a “Type A” NLG Fork), and are subject to inspections per this SB. Airplanes S/N 100-0218 and subsequent were delivered with the improved NLG Fork P/N 100-410-7013 (identified as a “Type B” NLG Fork) that do not need to be inspected per this SB. Refer to **Figure 1-1**.



**Figure 1-1: NGL Fork Types**

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Kodiak has determined that it is possible for cracks to form in the Type A NLG Fork P/N 100-410-7001, when continuing to operate in conditions where a shimmy exists during the landing event, which could lead to fracture of the NLG Fork. The corresponding Field Service Instructions (FSI) provide procedures for the removal, inspection, and re-installation of the Type A NLG Fork in order to assess its current condition and determine if replacement of the NLG Fork is required.

Refer to the table below for related documents.

DOCUMENT NUMBER	TITLE
FSI-147	Nose Landing Gear Fork Inspection
AM902.0	<i><b>KODIAK 100 Airplane Maintenance Manual</b></i>
SN18-01	New Nose Landing Gear Fork

### COMPLIANCE

Compliance with this SB requires both an initial inspection and repetitive inspections using the procedures described in **FSI-147**.

#### 1. Inspection Periods

- Initial Inspection: 25 hours Time In Service (TIS) from the effective date of this SB.
- Inspection Interval: Repeat inspections every 200 hours TIS.

#### 2. Instructions

- Remove the Type A NLG Fork and perform a non-destructive testing inspection of the NLG Fork for cracks in accordance with (IAW) **FSI-147**.
- If cracks are observed in the NLG Fork, replace the NLG Fork before further flight as outlined below:
  - For airplanes with serial numbers 100-0001 through 100-0217, replace with a serviceable Type A or Type B NLG Fork. Refer to the **AM902.0 KODIAK® 100 Airplane Maintenance Manual (AMM), Section 3222** for NLG Fork removal and installation instructions.
- If no cracks are observed in the NLG Fork, reinstall the NLG Fork and repeat the NLG Fork inspections every 200 hours TIS.

#### 3. Optional Terminating Actions

- Replacement of the Type A NLG Fork with an improved Type B NLG Fork terminates the repetitive inspections of the NLG Fork. Refer to Service Notice **SN18-01** for additional information regarding Type B NLG Forks.

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### SPECIAL INSTRUCTIONS

#### 1. Restrictions on Installing Type A NLG Fork

Once a Type B NLG Fork has been installed on an airplane, a Type A NLG Fork may not be reinstalled on that airplane. If a NLG assembly equipped with a Type B NLG Fork is removed from an airplane for any reason (maintenance, installation of floats, etc.), a Type B NLG Fork must always be used when the NLG assembly is reinstalled on that airplane. The Type A NLG Fork may not be installed on airplane serial number 100-0218 and subsequent.

#### 2. Shimmy Troubleshooting Information

If shimmy difficulties exist, refer to the **AM902.0 Kodiak 100 Airplane Maintenance Manual, Section 3220**, Revision 21 or later, for troubleshooting information.

### CREDIT AND WARRANTY INFORMATION

Kodiak will reimburse owners of an airplane with a valid warranty for up to seven (7) hours of labor costs (total cumulative time) associated with compliance of the requirements described in this bulletin. For owners of an airplane no longer under warranty, no reimbursement will be provided.

Refer to Kodiak's technical publications portal at <https://kodiakcare.aero> for warranty claim reimbursement instructions.

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