



## Service Bulletin

### Inspection and Replacement of the Nose Landing Gear Dip Tube

**MANDATORY**

#### Symbols:

Please pay attention to the following symbols emphasizing particular information throughout this document.

- ▲ WARNING: Identifies an instruction, which if not followed, may cause serious injury or even death.
- CAUTION: Denotes an instruction which if not followed, may severely damage the aircraft or could lead to suspension of warranty.
- ◆ NOTE: Information useful to implement the change more easily.

#### 1. General

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Release date: February 9<sup>th</sup> 2011

Date of effect: immediately

Compliance: before next take-off, lately May 9<sup>th</sup> 2011

Release Number: SB-004-nose-gear-ultralight

Superseded notice: none

Models affected: G-3, G-3/600, GX

Affected S/N: All aircraft certified with MTOW of 472.5kg or below up to and including S/N 331. Excluding aircrafts was changed the nose gear dip tube after June 23<sup>rd</sup> 2009. This dip tube must have been supplied as spare parts exclusively from REMOS Aircraft GmbH.



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Reason: bending and failure of the nose landing gear dip tube

Subject:

- inspection during preflight check
- replacement of the tube

Time required:

- for inspection: 1 minute
- for replacement: 2 hours

### 2. Material Information

Tools needed:

- for inspection none
- for replacement standard tools

Parts needed: nose landing gear dip tube, part number

- G3-8\_NG-01-00-00, rev. R02 or higher, or
- G3-8\_NG-01-00-14, rev. R00 or higher
- G3-8\_NG-01-00-15, rev. R00 or higher
- G3-8\_NG-01-00-14, rev. R00 or higher

### 3. Compliance

Schedule for Inspection:

- before each flight (preflight check)
- after hard landing
- after taxiing over a bump
- after taxiing through a turn at an accelerated speed

Schedule for Replacement:

- if damage has been detected
- lately May 9<sup>th</sup> 2011

Level of maintenance:

- inspection: none
- exchange: mid

License required:

for inspection

- pilot in command

for replacement

- as defined in the national requirements

Certification: Sign off aircraft logbook when nose gear dip tube has been exchanged by an authorized person as defined by national aviation authorities. Notify national aviation authority if required by regulations.



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### 4. INSTRUCTIONS for INSPECTION

- a. place the aircraft on a flat and level surface
- b. adjust the rudder to neutral
- c. stand approx. 10 ft in front of the aircraft and judge if the nose wheel tube is bent
- d. grasp propeller-roots just outside the spinner and push down onto the nose wheel suspension with approx. 20...30 lb of force

The aircraft must drop approx. 1 inch into the nose wheel suspension and come back after pressure has been released. If the nose wheel does not spring back or if friction is noticed the nose landing gear dip tube is bent and must be replaced.

- ▲ **WARNING:** Operating the aircraft with bent nose landing gear dip tube may result in collapse of the nose landing gear during taxi, take-off or landing.

### 5. INSTRUCTIONS for REPLACEMENT

- in case of REMOS G3 replace nose landing gear dip tube according to REMOS G3 MAINTENANCE HANDBOOK, section 5
- in case of REMOS GX replace nose landing gear dip tube according to REMOS GX MAINTENANCE HANDBOOK, section 5

- ◆ **NOTE:** Please contact your Remos Service Center if in doubt.

### 6. ADVICE

The aircraft was extensively tested during initial certification. Nevertheless, an error occurred in this process that led to the necessity of replacing the nose landing gear dip tube. REMOS explicitly points out that the basic landing conditions set forth in the certification standards were met. Only the supplemental nose landing gear conditions were not met. These conditions define forces for taxiing over a bump, towing the aircraft on the nose wheel or turning with high taxi speed. In these cases the nose landing gear could be damaged.

Nevertheless, it is possible to damage the nose landing gear dip tube during landing when touching down with the nose wheel first. The Pilot Operating Handbook explicitly states that touchdown must be on the main wheels first.

- **CAUTION:** Landing on the nose wheel first may lead to damage or collapse of the nose landing gear dip tube. Always touch down on the main gear first and hold back on the stick until the aircraft settles on its own. Do not force the aircraft onto the ground. Touchdown should be significantly below 80km/h.

**REMOS wishes you safe and fun flights!  
Always check your aircraft before you fly!**