

**Airglas, Inc.**

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**AE06-4IRI**

**LANDES Nose Fork Installation/Removal Instructions**

**Cessna 150, 152, 172, 175, 177, 182, 205 Series**

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Registration Number \_\_\_\_\_  
Aircraft Model \_\_\_\_\_

**WHEEL REMOVAL, LANDES NOSE FORK**

1. Weight or tie down tail of aircraft to raise nose wheel off of the ground.
2. Remove axle rod (Part No. PA32-206L-4) using Airglas drawing PA32-206LA as a reference.
3. Use a rod or long punch inserted through one bucket (Part No. PA32-206L-6) to tap the opposite bucket out of the axle. Remove both buckets and pull nose wheel from fork.

**NOTE**

If speed fairing is installed, it may be necessary to loosen the wheel scraper to remove the wheel.

**WHEEL INSTALLATION, LANDES NOSE FORK**

1. Install nose wheel in fork and install the two buckets (Part No. PA32-206L-6) using Airglas drawing PA32-206LA as a reference.
2. Install axle rod (Part No. PA32-206L-4) using Airglas drawing PA32-206LA as a reference.
3. Tighten axle rod (Part No. PA32-206L-4) until a slight bearing drag is obvious when the wheel is turned. Back off 1/4 turn so that wheel turns freely.

**WEIGHT AND BALANCE/EQUIPMENT LIST**

- |    |  |                          |                           |
|----|--|--------------------------|---------------------------|
| 1. | PA32-206LA Nose Fork Assembly:         | 13.5 lbs                 |                           |
|    | Cleveland 40-76A Wheel Assembly:       | 4.0 lbs                  |                           |
|    | Nose Tire (use actual weight of tire): | ___ lbs                  |                           |
|    | Total Weight                           | ___ lbs @ C-150 Station. | -11.00 in.                |
|    |  |                          | C-152 Station. -10.80 in. |
|    |  |                          | C-172 thru K -7.50 in.    |

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#### **WEIGHT AND BALANCE/EQUIPMENT LIST**

**(CONTINUED)**

PA32-206LA Nose Fork Assembly:	13.5 lbs
Cleveland 40-76A Wheel Assembly:	4.0 lbs
Nose Tire (use actual weight of tire):	___ lbs
Total Weight	___ lbs @ C-172L thru S <u>-6.80 in.</u>
	C-P172D, R172E,F,G,H,J,K <u>-7.00 in.</u>
	C-175 thru C <u>-7.00 in.</u>
	C-177 thru B <u>-6.80 in.</u>
	C-182 thru S, T182 <u>-7.50 in.</u>
	C-205, 205A <u>-7.50 in.</u>

#### **WARNING**

There are limitations on the forward C.G. envelope of some aircraft with the Airglas, Inc., PA32-206LA Landes Nose Fork installed. Consult Airglas, Inc. Document No. AE00-1FM. With the Landes Nose Fork assembly installed the aircraft must be loaded in accordance with the Center of Gravity envelope specified.

#### **LANDES Block Installation/Removal Instructions**

1. Remove lower nose strut using procedures outlined in the appropriate Cessna Maintenance Manual for that model of aircraft.
2. Remove torque link fitting bolt and fork bolt as required.  
Note: Heavy duty and late model combine fork and link fitting.  
(See special instruction #1.)
3. Drive fork and link from lower strut tube using hydraulic press. Do not push on base plug, press on tube periphery only.
4. Heat Landes Block with electric heat gun, oven or boiling water to a maximum of 200° Fahrenheit.
5. Mark strut tube holes with magic marker lines extending upward approximately 2". This will aid in aligning block bolt holes with the holes in strut tube. Some models have a 3/8" hole. (See special instruction #2.)
6. After block temperature has stabilized, quickly slide block onto tube. (Hydraulic press will often be needed to accomplish this operation.) Use magic marker

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**LANDES Block Installation/Removal Instructions**

**(CONTINUED)**

guides to help align the bolt holes. Drive a 5/16" bullet through hole to ensure final alignment while still hot.

7. Assemble strut with new seals using appropriate Cessna Maintenance Manual for the particular aircraft model.

**SPECIAL INSTRUCTIONS:**

- #1. On Standard nose struts the lower hole must be removed by cutting approximately 1" off of the lower portion of the tube. Alternately the tube may be replaced with a heavy duty model.
- #2. Some models use a 3/8" hole in the block and tube combined with a bushing. The bushing must be cut and ground to ride flush with the outside diameter of the strut tube. This installation requires the disassembly of the block and tube to replace o-ring seal on base plug.
- #3 If a nose tire smaller than the main tires is installed: confirm adequate propeller clearance in accordance with 14 CFR 23.925(a). Record propeller clearance and tire sizes in aircraft permanent records.