

Procedure 9.020

Nose Gear Yoke Installation

In this procedure...

The Nose Gear Yoke will be installed on the Nose Gear Strut and the Nose Gear Wheel and Tire Assembly will be installed in the yoke.

<u>Part Number</u>	<u>Description</u>	<u>Qty</u>
111-10-003	Nose Gear Yoke	1
115-14-011	Friction Pad	1
115-14-012	Friction Pad Backing Plate	1
115-14-008	Spring Washer	1
115-14-010	Washer	1
114-14-013	Nut	1
MS24665-283	Cotter Pin	1
115-14-002	Axle	1
115-14-009	Spacers	2
115-14-001	Bolt, Axle	1
AN310-7	Nut, Axle Bolt	1
115-14-005	Wheel	1
115-14-004	500 x 5 Tire	1
115-14-003	500 x 5 Tube	1
115-14-015	Zerk, Nose Gear	1

Step 1. Install Tire on Wheel.

Install the nose gear tire on the wheel assembly using standard tire installation procedures. Inflate the tire to 30 psi.

Step 2. Install the yoke assembly on the nose gear.

Install the nose gear yoke on to the nose gear spindle in the following order:

- a. Nose gear friction pad.
- b. Nose gear friction pad backing plate.
- c. Nose gear yoke.
- d. Nose gear washer.
- e. Belivel washer.
- f. Nut
- g. Cotter pin.

**Step 3. Install nose gear wheel and tire in yoke.**

Clean and grease the nose gear wheel bearings. Install bearings into wheel and slip axle into wheel. Install the nose gear bushings on each end of the axle. Position the axle and spacers between the forks of the yoke assembly. Install the nose gear bolt and tighten the nut till the wheel bearing seals stop rotating when the tire is rotated. Secure the nut with a cotter pin.

Step 4. Adjust Friction on Nose Gear Yoke Assembly.

Adjust the nose gear friction, to prevent nose gear shimmy, by tightening the nut on the nose gear spindle. Tighten the nose gear spindle nut until the break away pull of the nose gear yoke, measured and the axle bolt, is 35 to 40 lbs. Install cotter pin in nose gear spindle nut.

(NOTE: NOSE GEAR FRICTION SHOULD BE CHECKED EVERY 5 FLIGHT HOURS FOR THE FIRST 25 HOURS OF FLIGHT)