



Figure 7-8. Nose Wheel Assembly

d. The wheel halves (1 and 2) may be separated by first deflating the tire. With the tire sufficiently deflated, remove the wheel through bolts (4). Pull the wheel halves from the tire by removing the wheel half opposite the valve stem first and then the other half.

e. The wheel bearing assemblies (10 and 11) may be removed from each wheel half by first removing the three screws (6) or snap ring (7) which hold in the grease seal (9) and seal retainers (8), and then the bearing cones (10). The bearing cup (11) should be removed by tapping out evenly from the inside.

7-23. INSPECTION OF NOSE WHEEL ASSEMBLY.

- a. Visually check all parts for cracks, distortion, defects and excess wear.
- b. Check tie bolts for looseness or failure.
- c. Check internal diameter of felt grease seals. Replace the felt grease seal if surface is hard or gritty.
- d. Check tire for cuts, internal bruises and deterioration.
- e. Check bearing cones and cups for wear and pitting and relubricate.
- f. Replace any wheel casting having visible cracks.

7-24. ASSEMBLY AND INSTALLATION OF NOSE WHEEL. (Refer to Figure 7-8.)

- a. Ascertain that the bearing cup (11) for each wheel half (1 and 2) is properly installed. Install the tire with tube on the wheel half with the valve stem hole and then join the two wheel halves. Install the through bolts (4) with the washers (3) and nuts (5) to the valve stem side, torque nuts to 90 inch pounds and inflate tire. (Refer to Table II-i, Section II for tire pressure.)
- b. Lubricate the bearing cones (10) and install the cones and grease seal assembly (8 and 9). Secure with the same three screws (6) or snap ring (7).
- c. Replace the wheel fairing by turning sideways and slipping it up over the fork assembly.
- d. Place the spacer tubes one on each side of the wheel and install unit in fork. Align and slide the axle tube through the spacer tubes and wheel assembly. Reinstall the axle plugs and rod with washer and nut. Tighten the nuts until no side play is felt, yet allowing the wheel to rotate freely.
- e. Turn fairing so it will fall into place and reinstall it with the four bolts and screws in the small plate.

7-25. REMOVAL AND DISASSEMBLY OF MAIN WHEEL. (Refer to Figure 7-9.)

- a. Place the airplane on jacks. (Refer to Jacking, Section II.)
- b. To remove the main wheel, remove the two cap bolts that join the brake cylinder housing and the lining back plate assemblies. Remove the back plate from between brake disc and wheel.
- c. Remove the dust cover, the cotter pin and flat head pin that safeties the wheel nut, and the wheel nut. Slide the wheel from the axle.
- d. The wheel halves (1 and 2) may be separated by first deflating the tire. With the tire deflated, remove the wheel through bolts (16). Pull the wheel halves from the tire by removing the inner half from the tire first, and then the outer half. The brake disc can be removed at this time.