

Figure 4-17. Front wheel cross section diagram

4.4 FRONT WHEEL

The front wheel axle and the axle nut assemble the cast aluminum alloy hub with the cast brake drum and two 6302R ball bearings with the front brake panel consisting of brake shoes and a speedometer gear.

When the brake is applied, the reaction is transmitted to the front fork by the brake panel stopper. A labyrinth is incorporated in the brake panel and the wheel hub to prevent the entry of water and dust into the hub interior. Tire size 2.25-17-4PR is used.

a. Disassembly

- (1) Place an adequate stand under the engine to raise the front wheel.
- (2) Remove the front brake cable and the speedometer cable.
- (3) Remove the axle nut and pull out the front wheel axle, then the front wheel and the front brake panel can be removed as a unit.
- (4) The brake shoe is fixed in place with the brake shoe spring; therefore spread the brake shoes apart and remove from the panel. (Fig. 4-18)

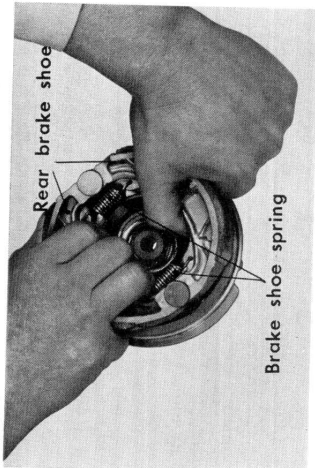


Figure 4-18. Removing front brake shoe

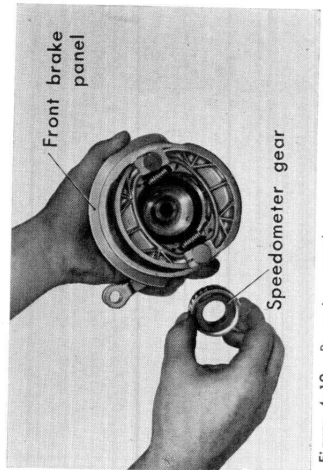


Figure 4-19. Removing speedometer gear

- (5) Remove the front brake cam and the speedometer gear from the front brake panel. (Fig. 4-19)
- (6) Remove the tire and tube from the rim using a tire lever and pull out the tube from the tire.

b. Inspection

- (1) Inspect the rim for runout and eccentricity. (Fig. 4-20)

Face	Standard Value	Serviceable Limit
Runout	0.7 (0.028 in.)	Repair if beyond 1.0 (0.040 in.)
Eccentricity	0.5 (0.020 in.)	Repair if beyond 1.0 (0.040 in.)

- (2) Check front axle diameter and for bend

Diameter	Standard Value	Serviceable Limit
	10 mm (.400 in.)	
	-0.005 (.0002 in.)	
	-0.050 (.0020 in.)	
Bend	0.2 (0.008 in.)	Repair or replace if over 0.5 (0.020 in.)

- (3) Check brake drum inside diameter. (Fig. 4-21)  
Standard value → 110mm ± 0.2 (4.33 ± 0.08 in)  
Serviceable limit → Replace if over 110mm (4.33 in)
- (4) Check brake shoe. (Outside diameter)  
Standard value → 109.5mm ± 0  
-0.3 (4.291 ± 0.118 in)  
Repair limit → Replace if over 105.5mm (4.153 in)

c. Reassembly

- (1) Reinstall the tire flap so that it is positioned over the spoke nipples. (Fig. 4-22)

- (2) Reinstall the tire and tube.

(Note)

- a. After reassembly of the tire, fill the tire with air to about 2/3 of the specified pressure and tap the tire all around with a soft faced hammer to eliminate any tube twist or pinching. (Fig. 4-23)

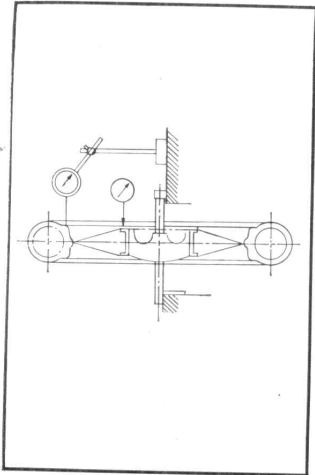


Figure 4-20. Measuring wheel runout

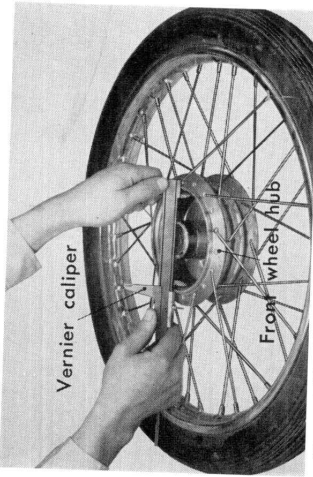


Figure 4-21. Measuring brake drum diameter

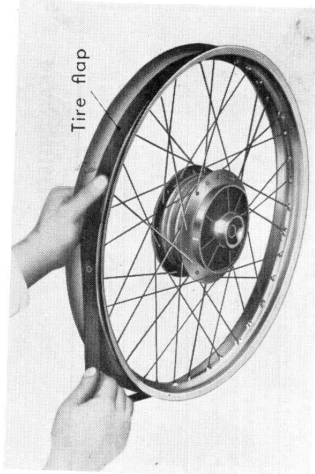


Figure 4-22. Installing tire flap

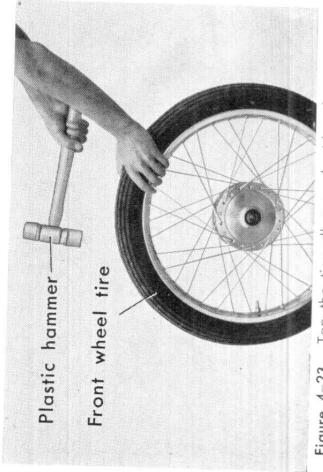


Figure 4-23. Tap the tire all around with a hammer