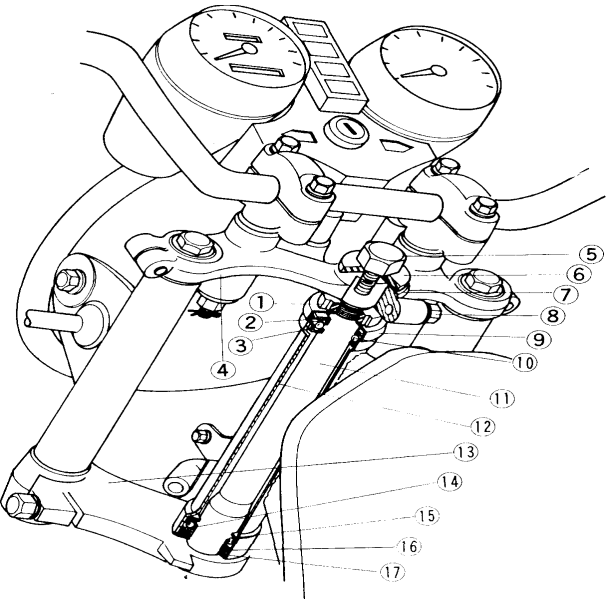
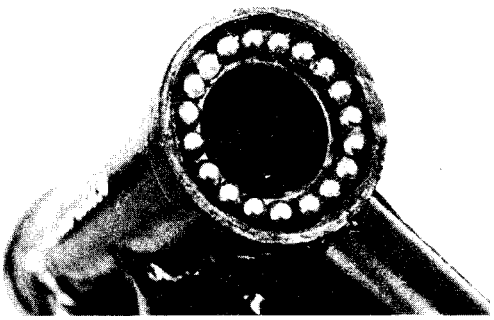
Steering Stem



grease liberally to the upper and lower races, and stick the bearing balls in place with grease.



Grease seal deterioration, damage

Inspect the grease seal for any signs of deterioration or damage, and replace it if necessary.

Replace the grease seal with a new one whenever it has been removed. The grease seal comes off whenever the lower bearing inner race is removed.

1. Stem Lock Nut
2. Upper Inner Race
3. Upper Outer Race
4. Stem Head
5. Stem Head Bolt
6. Lock Washer
7. Flat Washer
8. Stem Head Clamp Bolt
9. Stem Cap
10. Steel Ball
11. Steering Stem
12. Frame Head Pipe
13. Stem Base
14. Steel Ball
15. Lower Outer Race
16. Lower Inner Race
17. Grease Seal

FRONT FORK

Front fork construction is shown in Fig. 532. It consists of two shock absorbers connected to the frame head pipe by the stem base and stem head bracket. It accomplishes shock absorption through spring action, air compression in the inner tube, and resistance to the flow of the oil forced into the cylinder by tube movement.

Each shock absorber is a telescopic tube including an inner tube 12 , outer tube 16. , cylinder 20, piston 17 , collar 25, and cylinder base 27 . The inner tube fits into the outer tube, altering its position in the outer tube as the tube arrangement absorbs shocks. The cylinder is fixed to the bottom of the outer tube and the piston (equipped with a piston ring 18 is secured to the top of the cylinder. The collar (coupled with a non-return valve 24 , fixed in the lower end of the inner tube, forms the upper part of the lower chamber and together with the piston helps seal the upper chamber. The collar and cylinder base configuration function to form and oil lock at the end of the compression stroke to prevent the inner tube from striking the bottom. Small orifices (2) in the upper part of the cylinder bring about an oil lock at the end of the extension stroke to prevent the inner tube from striking the top.

Oil is prevented from leaking out by the oil seal 15), which is fitted at the upper end of the outer tube. A