

REAR BELT DEFLECTION

INSPECTION

Check rear belt deflection:

- Inspect before every ride.
- Adjust at the 500 mile (800 km) service interval.
- Adjust at every 5000 mile (8000 km) service interval thereafter.

The secondary drive belt should be checked for unusual wear, cracking or loss of teeth. Check the belt sprocket for unusual wear, broken teeth or damaged flange. When checking deflection, have:

- No rider or cargo weight on motorcycle.
 - Transmission in neutral.
 - Belt and sprockets at room temperature.
 - Motorcycle upright (not on side stand).
1. See [Figure 1-21](#). At the lower strand, position "A", midway between transmission sprocket and rear wheel sprocket, apply 10 lbs (4.5 kg) of upward force on lower span of rear belt using [BELT TENSION GAUGE \(Part No. HD-35381\)](#).
 2. Measure belt deflection "B" several times, each time with belt moved (by rotating rear wheel) to a different position on sprockets. With sprockets rotated to tightest belt position, belt deflection "B" (measured at position "A") should be 7/8-1 in. (22.2-25.4 mm).

ADJUSTMENT

1. Adjust shock absorber spring preload. See [REAR PRE-LOAD ADJUSTMENT](#) on [page 1-23](#).
2. See [Figure 1-22](#). Loosen rear axle nut (metric), if not already performed.

NOTE

After you loosen the axle nut, turn the axle and nut so the rear-most flat on each side is parallel with the ends of the swingarm.

Check to be sure rear wheel axle is parallel with swingarm pivot shaft.

3. See [Figure 1-23](#). Measure each side from the flat to the end of the swingarm, to be sure rear axle is correctly located.
4. Turn axle adjuster nuts (metric) on **each** side of swingarm to adjust belt deflection.
 - a. Turn clockwise to decrease deflection (increase tension).
 - b. Turn counterclockwise to increase belt deflection (decrease tension).

Turn each adjuster nut exactly the same number of turns to maintain rear wheel alignment

5. Tighten axle nut (metric) to 66-73 ft-lbs (89.5-98.9 Nm).

CLEANING

Keep dirt, grease, oil, and debris off the belt and sprockets. Clean the belt with a rag which is slightly damp with light cleaning agent.

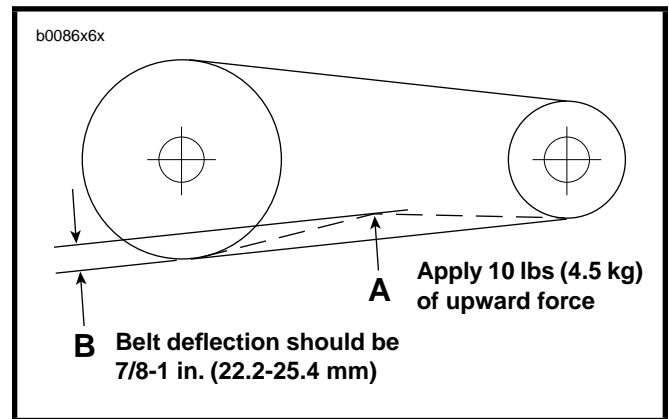


Figure 1-21. Checking Belt Deflection

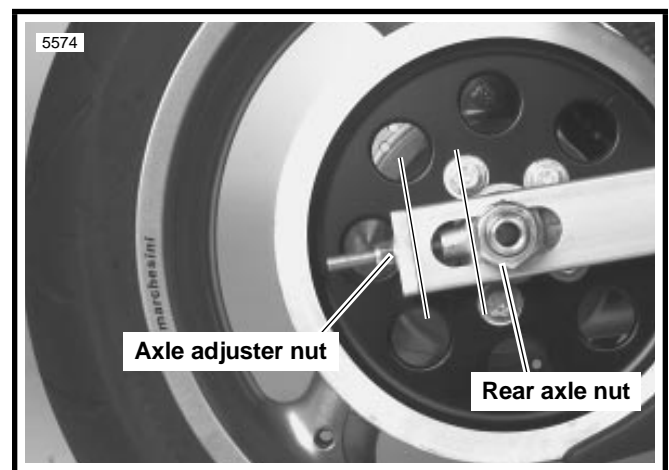


Figure 1-22. Rear Axle

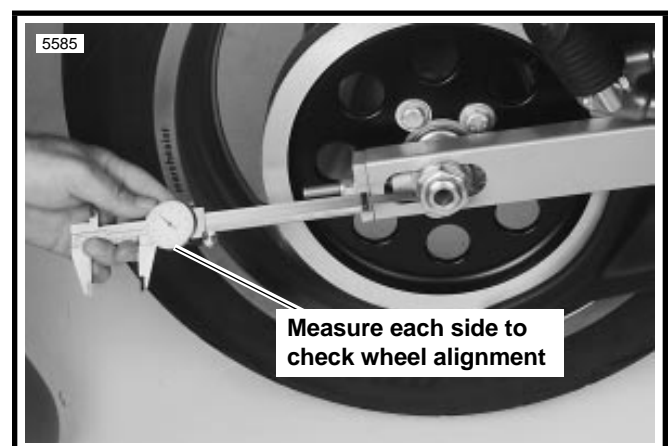


Figure 1-23. Checking Rear Wheel Alignment, Right Side Shown