PRIMARY CHAIN

INSPECTION

See <u>Figure 1-31</u>. Measure primary chain tension through the inspection cover opening. Adjust primary chains not meeting vertical free play specifications.

- 1. See <u>Figure 1-31</u>. Remove two fasteners with captive washers and primary chain inspection cover with gasket from primary cover.
- 2. See <u>Figure 1-32</u>. Check primary chain tension by measuring vertical free play.
 - a. Measure vertical free play through chain inspection cover opening.
 - b. Rotate engine to move primary chain to a different position on sprockets.
 - c. Measure vertical free play several times, each time with primary chain moved so that the measurement is taken with sprockets rotated to the tightest chain position.
- The tightest measurement taken in the previous step must be within the specifications listed in <u>Table 1-11</u>. If necessary, adjust as described under <u>1.10 PRIMARY CHAIN</u>, <u>Adjustment</u>.

NOTE

The initial primary chain vertical free play specification used at the assembly plant is 1/4-1/2 in. (6.4-12.7 mm) with a cold engine. The 1/2 in. (6.4 mm) minimum is only allowed at the absolute tightest point in the drive, as measured with specialized factory equipment. If a chain has less than 1/4 in. (6.4 mm) vertical tension (with a cold engine), adjust tension to the "field" specification of 3/8-1/2 in. (9.5-12.7 mm). The looser specification will avoid overtightening, which might otherwise occur during adjustment using "non-factory" equipment and methods.

 See <u>Figure 1-31</u>. Install primary chain inspection cover and **new** gasket to primary cover using two fasteners with captive washers. Tighten fasteners to 84-108 **in-lbs** (10-12 Nm).

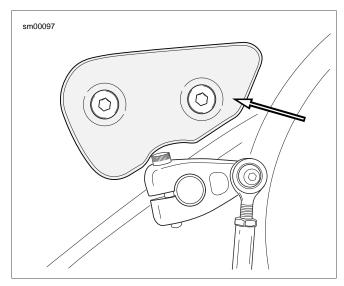


Figure 1-31. Primary Chain Inspection Cover

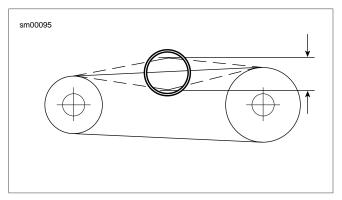




Table 1-11. Primary Chain Free Play: XB Models

ENGINE TEMPERATURE	FREE PLAY	
Cold	3/8-1/2 in.	9.5-12.7 mm
Operating temperature	1/4-3/8 in.	6.4-9.5 mm

ADJUSTMENT

NOTE

If vertical free play cannot be set within the limits specified, then primary chain and/or chain adjuster are worn beyond adjustment limits. Replace parts as necessary. See <u>6.5 PRIMARY CHAIN</u>.

- 1. See Figure 1-33. Loosen locknut (1).
- 2. Turn adjusting fastener (2):
 - a. Clockwise (inward) to increase tension (reduce free play).
 - b. Counterclockwise (outward) to reduce tension (increase free play).
- 3. Tighten locknut (1) to 20-25 ft-lbs (27-34 Nm).

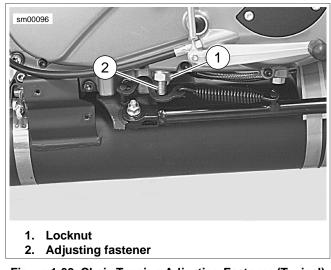


Figure 1-33. Chain Tension Adjusting Fastener (Typical)