

PRIMARY CHAIN

INSPECTION

Check primary chain:

- At the 500 mile (800 km) service interval.
- At every 5000 mile (8000 km) service interval thereafter.

Check primary chain for correct tension by measuring its vertical freeplay through the primary chain inspection cover opening located near the top of the primary cover.

1. See [Figure 1-24](#). Remove two screws from primary chain inspection cover.
2. Remove primary chain inspection cover.
3. See [Figure 1-25](#). Check primary chain tension by measuring vertical freeplay (measuring midway between sprockets) several times, each time with primary chain moved (by rotating engine) to a different position on sprockets.
4. Check primary chain tension against [Table 1-7](#). If necessary, adjust as described below.

NOTE

- Measurements are taken with sprockets rotated to tightest chain position.
- The initial primary chain vertical freeplay specification used at the assembly plant is 1/4-1/2 in. (6.3-12.7 mm) with a cold engine. The 1/4 in. (6.3 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. vertical freeplay (with a cold engine), adjust freeplay 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.

Table 1-7. Primary Chain Tension

ENGINE TEMPERATURE	FREEPLAY
Cold	3/8-1/2 in. (9.5-12.7 mm)
Hot (normal running temperature)	1/4-3/8 in. (6.4-9.5 mm)

5. Install primary chain inspection cover. Tighten screws to 40-60 in-lbs (4.5-6.8 Nm).

ADJUSTMENT

NOTE

If vertical freeplay cannot be set within the limits specified, then primary chain and/or chain adjuster are worn beyond adjustment limits. Replace parts as necessary. See Section 6.

1. See [Figure 1-26](#). Loosen locknut and turn adjusting screw:
 - a. Turn clockwise (inward) to reduce freeplay.
 - b. Turn counterclockwise (outward) to increase freeplay.
2. Tighten locknut to 20-25 ft-lbs (27.1-33.9 Nm).

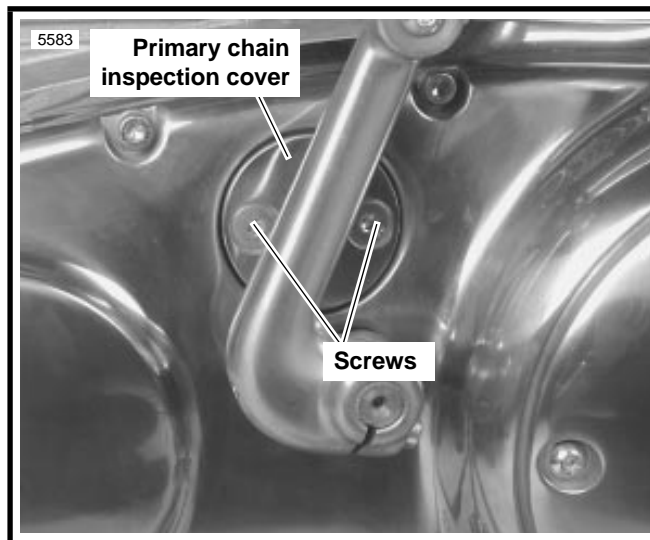


Figure 1-24. Primary Chain Inspection Cover

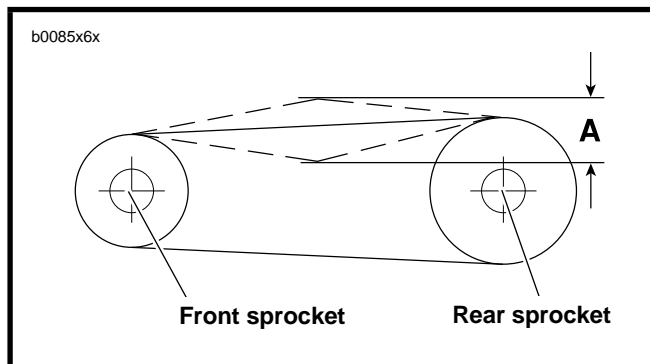


Figure 1-25. Measuring Primary Chain Tension

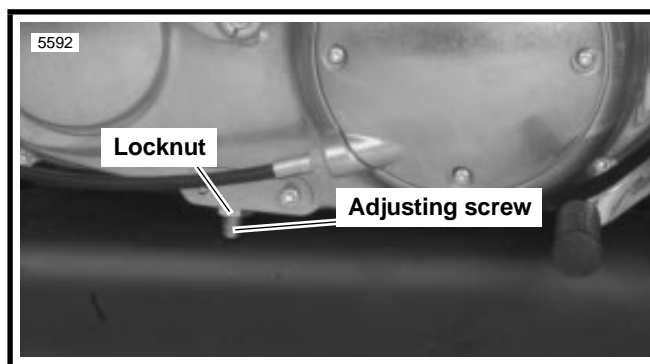


Figure 1-26. Primary Chain Adjustment