

CAUTION

Do not overfill the primary chaincase with lubricant. Overfilling can cause rough clutch engagement, incomplete disengagement, clutch drag and/or difficulty in finding neutral at engine idle. (00199b)

6. Make certain primary chaincase is filled with proper amount of lubricant with motorcycle upright. If under filled, transmission can be damaged during vehicle operation.
7. See [Figure 1-24](#). Add GENUINE HARLEY-DAVIDSON FORMULA+ TRANSMISSION AND PRIMARY CHAINCASE LUBRICANT (Part No. 99851-05, quart size) as required until fluid level is even with bottom of clutch diaphragm spring.

NOTE

Each time the clutch inspection cover is removed, the gasket must be replaced.

8. Install **new** clutch cover gasket.
9. See [Figure 1-25](#). Install clutch inspection cover tightening three fasteners and washers to 84-108 in-lbs (10-12 Nm).
10. Clean up any fluid that may have spilled on muffler.

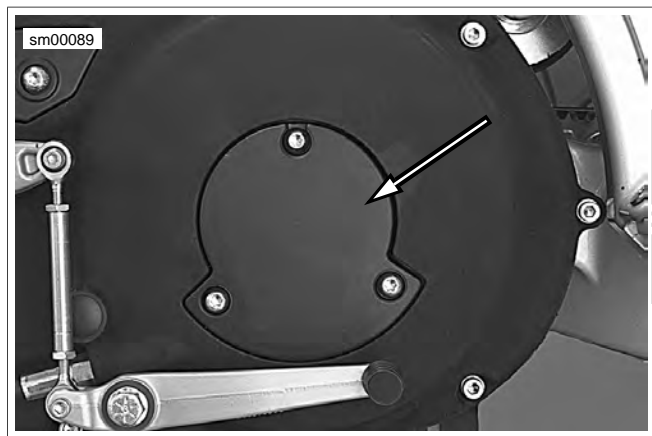


Figure 1-25. Clutch Inspection Cover (Typical)

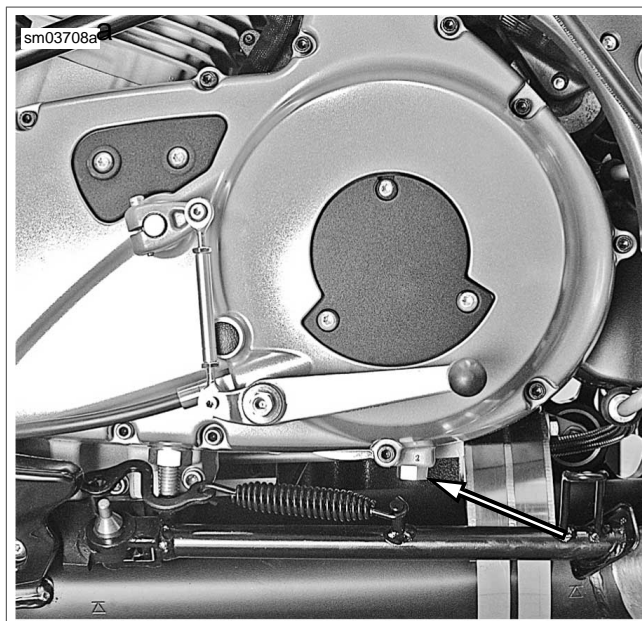


Figure 1-26. Primary Drain Plug: XB Models

ADJUSTMENT

If clutch slips under load or drags when released, first check control cable adjustment. If cable adjustment is within specifications, adjust clutch mechanism as described below.

When necessary, lubricate cable with LUBIT-8 TUFOIL® CHAIN AND CABLE LUBE (Part No. HD-94968-85TV).

1. Position the vehicle upright and level. This will prevent lubricant from draining out when clutch inspection cover is removed.
2. See [Figure 1-27](#). Slide rubber boot (1) upward to expose adjuster mechanism. Loosen jam nut (3) from adjuster (4). Turn adjuster to shorten cable housing until there is a large amount of free play at clutch hand lever.
3. See [Figure 1-25](#). Remove three fasteners and washers from clutch inspection cover. Remove clutch inspection cover and gasket from primary cover.
4. See [Figure 1-28](#). Remove spring (1) and lockplate (2). Using a flat tip screwdriver, turn adjusting screw (3) counterclockwise until it lightly bottoms.
5. Turn adjusting screw clockwise 1/4-1/2 turn. Install lockplate and spring on adjusting screw flats. If hex on lockplate does not align with recess in outer ramp, rotate adjusting screw clockwise until it aligns.

NOTE

Spring installs on outboard side of hex lockplate.

6. Squeeze clutch hand lever to maximum limit three times. This sets the ball and ramp mechanism. Pull outer cable conduit and at the same time adjust cable adjuster to

provide 1/16-1/8 in. (1.6-3.2 mm) free play at clutch hand lever. Adjust as follows:

- a. See [Figure 1-29](#). Pull ferrule (end of cable housing) away from bracket. Gap between ferrule and bracket should be 1/16-1/8 in. (1.6-3.2 mm).
 - b. See [Figure 1-27](#). Set free play by turning adjuster (4).
 - c. Tighten jam nut (3) against adjuster (4).
 - d. Slide boot (1) over cable adjuster mechanism.
7. Change or add transmission fluid if necessary.

NOTE

Each time the clutch inspection cover is removed, the gasket must be replaced.

8. See [Figure 1-25](#). Install clutch inspection cover and **new** gasket using three fasteners and washers and tighten to 84-108 **in-lbs** (10-12 Nm).

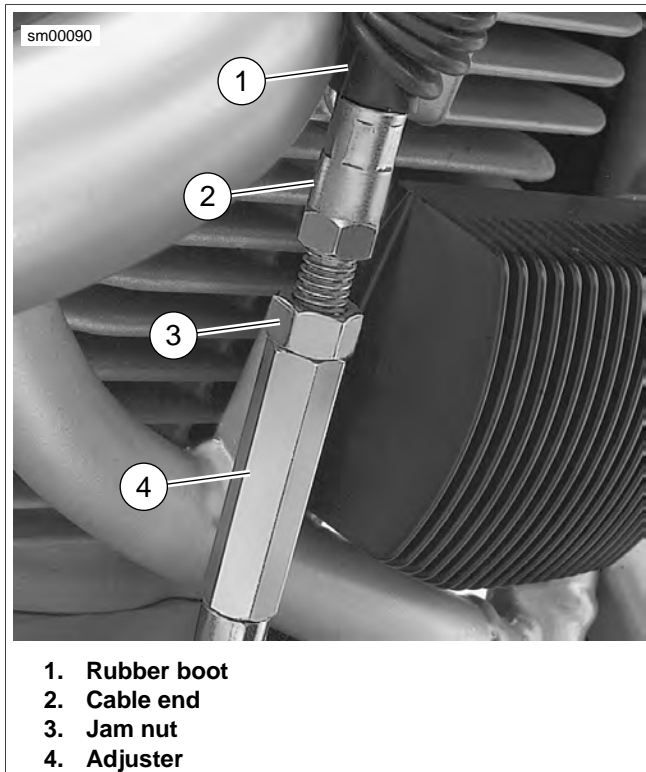


Figure 1-27. Clutch Cable Adjuster Mechanism

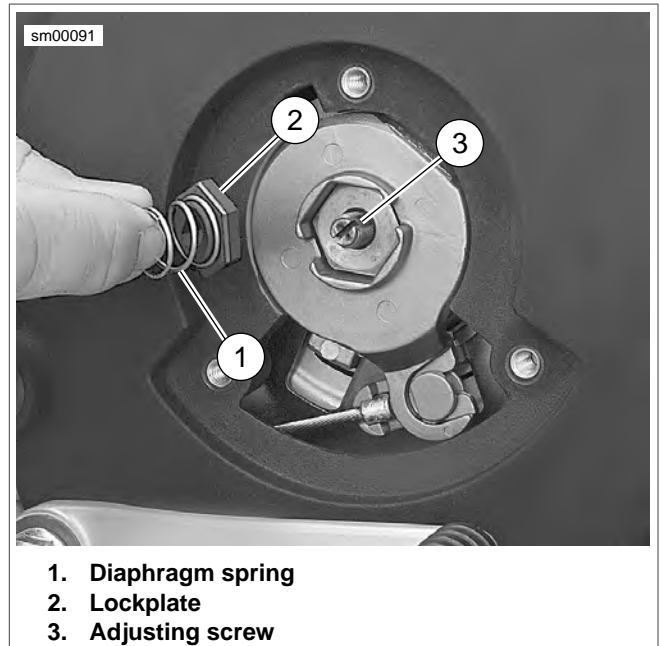


Figure 1-28. Clutch Adjustment: XB Models

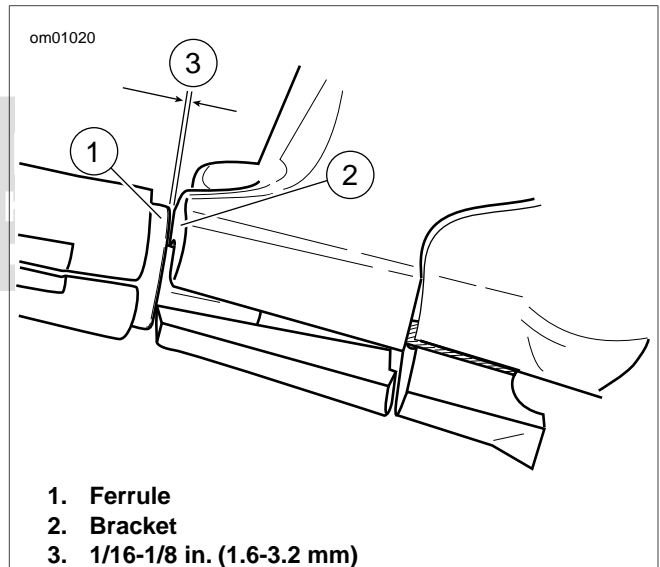


Figure 1-29. Clutch Cable Free Play