

## 2004-Later Sportster Shifting Diagnosis

If you are experiencing a shift binding issue on 2004 and later XL models, before disassembly of the engine for transmission inspection, check for some end play on the shift shaft by removing the shift lever and moving the shift shaft inward and outward by hand. There should be perceptible end play on the shaft.

If not, the inboard bushing (**item 10** in the diagram below), which is mounted in the left side crankcase half, may have backed out slightly, taking up the end play between the step on the shift shaft and the outer primary cover. A tap on the end of the shift shaft with a deadblow hammer will reseat the bushing and provide the proper clearance of the shaft between the inboard bushing and the primary cover. Check for proper shifting after reseating the bushing.

If the bushing feels excessively loose in the case, replace bushing part number 34076-02, apply a drop of green Loctite to the replacement bushing and reseat within its bore.

