

## 1981 FXB CHANGES

## Rear Sprocket Mounting

The rear sprocket mounting on 1981 model FXB motorcycles has recently been changed. The SPROCKET BOLT WASHERS have been changed to Part No. 6516HW and the bolt torque increased to 50-55 ft-lbs. This increases the clamping force on the sprocket and reduces the possibility of metal fatigue. We recommend that you replace the LOCKWASHERS, Part No. 6334, with the HARDENED WASHERS, Part No. 6516HW, and torque the SPROCKET BOLTS, Part No. 3771, to 50-55 ft-lbs torque if you are disassembling the rear wheel and sprocket. This should be done on all 1981 FXB's below VIN 1HD1BDK17BY028070 and all 1980 FXB models.

The spacer between the rear wheel sprocket and the wheel hub is now available under Part No. 40932-81. This spacer is used on all 1980 and 1981 FXB models.

## Compensating Sprocket

Figure 6-7 on page 6-6 of the 1978½ to 1981 FL/FX Service Manual may need some clarification. The exploded view drawing is correct as viewed with parts installed on the motorcycle. The photograph (1684) shows the sprocket rubber dampers and hub from the back side. Installed properly on the motorcycle, the sprocket, dampers and hub should look like Figure 1 when viewed from the left side of the motorcycle. This is important since the square surface of the sprocket projections must receive the load from the hub as transmitted through the large rubber dampers. If the sprocket and/or rubber dampers are reversed, excessive noise and/or parts wear may occur.

When assembling the compensating sprocket, always check the clearance between the outer FLANGE BEARING, Part No. 40254-80, and the sprocket. If the clearance exceeds .0015 in., replace the flange bearing. Excessive clearance may lead to misalignment of the sprocket and excessive parts wear and noise.

## Rear Wheel/Inner Tube

Starting with VIN 1HD1BDK14BY019567, all FXB models have a new rear wheel with a smaller, 11/32 in. diameter, valve stem hole. Earlier 1981 and all 1980 models use REAR WHEEL, Part No. 40935-80, which has a 5/8 in. diameter valve stem hole.

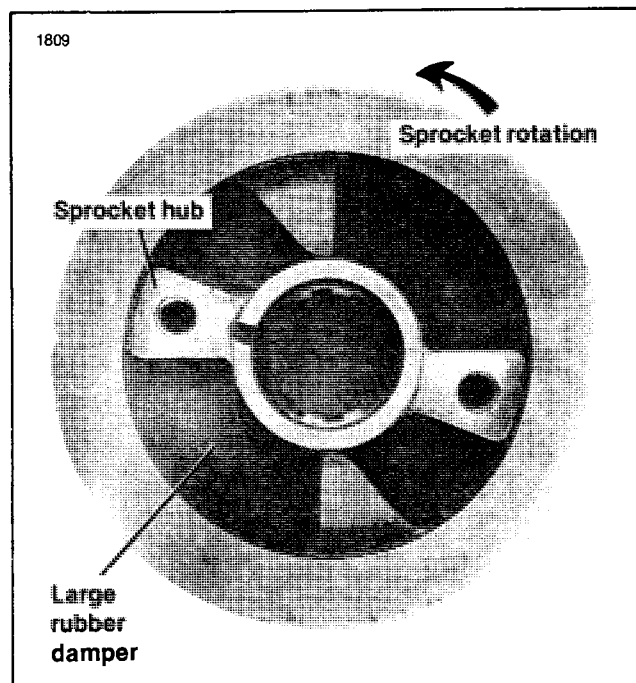


Figure 1. Correct Belt Drive Compensating Sprocket Assembly

To correspond with this wheel change, the inner tube was also changed. The larger stem diameter inner tube is available under Part No. 40550-77. The new smaller stem diameter inner tube is available under Part No. 40554-80.

## WARNING

**Do not interchange inner tubes and wheels. Doing so could lead to inner tube failure.**

All 1981 FX models have a black plastic valve stem cap which allows clearance for the new rear caliper and bracket assembly.

## WARNING

**Do not use the metal core extractor style valve stem cap on 1981 FX model rear wheel inner tubes as it may scratch the caliper and/or damage the inner tube valve stem.**

| ROUTING:        | SERVICE<br>MANAGER | SALES<br>MANAGER | PARTS<br>MANAGER | CHIEF<br>MECHANIC | MECHANIC<br>NO. 1 | MECHANIC<br>NO. 2 | MECHANIC<br>NO. 3 | MECHANIC<br>NO. 4 | RETURN<br>THIS TO: |
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| INITIAL<br>HERE |                    |                  |                  |                   |                   |                   |                   |                   |                    |

## Starter Shaft

Starting with VIN 1HD1BDK12BY017428, all 1981 FXB models have a new style STARTER SHAFT, Part No. 31310-80A. This shaft has an added shoulder in place of

the retaining ring groove and RETAINING RING, Part No. 31313-80, as shown in Figure 2. The new shaft is a direct replacement for the old and should be used whenever replacing a starter shaft on 1980 or 1981 FXB models.

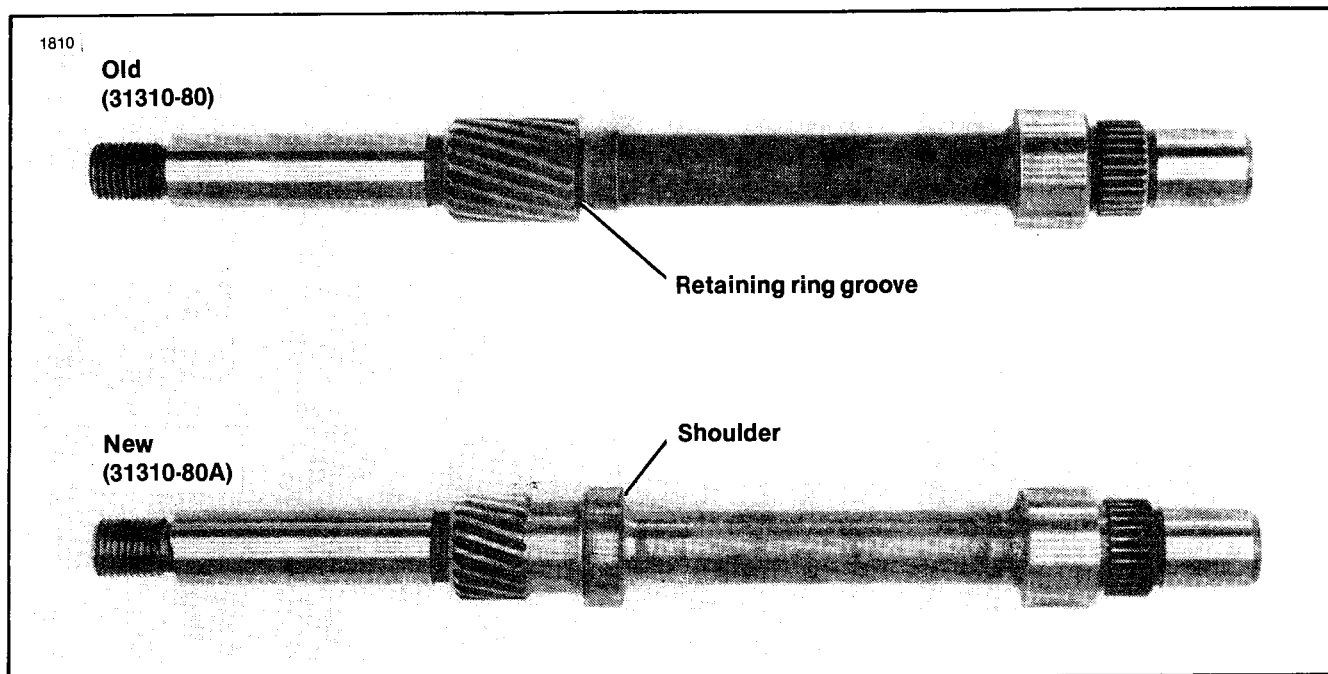


Figure 2. Old and New Style Starter Shafts