In 1981 model production, a spacer was added to approximately 50% of the FXB starter solenoid assemblies. At this time the spacer does not have a part number nor is it shown in either the Parts Catalog or Service Manual.

Should the spacer become lost during disassembly of the solenoid or an FXB is experiencing a problem where the solenoid is operating but not allowing current to flow to the starter motor, fabricate a spacer out of common low carbon steel rod (see Figure 1) and install it in the starter solenoid, as shown in Figure 2.

See Figure 2. The spacer (26) is required so that the inner plunger on certain models will travel far enough to allow the copper washer (13) to make contact between the battery terminal (5) and the starter motor terminal (8) of the starter solenoid, thus actuating the starter motor.

**CAUTION**

Do not use this spacer in a starter solenoid that is functioning properly.
1. Screw and washer (2)
2. Cover
3. Gasket
4. Nut and gasket (3)
5. Stud (positive battery)
6. Plate
7. Stud (starter relay)
8. Stud (starter motor connection)
9. Plunger assembly (inner)
10. Spring (small)
11. Collar (2)
12. Plastic washer
13. Copper washer
14. Seat
15. Spring (large)
16. Plunger
17. Solenoid
18. Felt gasket
19. Spring
20. Plunger (outer)
21. Pin (large)
22. Rubber boot
23. Spring
24. Collar
25. Pin (small)
26. Spacer (FXB only)

Figure 2. Solenoid — Exploded View