

Shifter support spring

The support springs mount in the housing and centers your shift lever.

34500-52(2)
1952-1971

34500-52A(2)
1972-1978

34500-78(2)
1979-1984

This support spring centers the shifter pawl carrier. This is what centers the shift lever.



The Iron Sportster trap door assembly holds the mainshaft, countershaft, and shifter mechanism.



The Iron Sportster shifter comes as the 34009-52 assembly.



Here is a view of the two shifter support springs as installed in the housing. At rest, they press against those square features, they do not bear on the pin in the shifter carrier that they center.



Here is the housing with the carrier partially installed. You can see how the spring stops are as wide as the pin in the carrier. This way the springs don't fight each other as they center the carrier and hence, the shifter lever.

34500-52(2)

1952-1971

34500-52C(2)

1972-1976



Here are two of the springs, I'm guessing the -52C parts. .



The springs tend to bend into an arc from riding in the housing for years. This might be due to losing their temper, or to the springs wearing in a certain way.

34500-78(2)

1979-1984

Not sure what the difference is with these springs.

Damage and wear

Rubbing wear

all years



My buddy Angel had one of these break in his 1979 Sportster. Looking at this one, you can see why. The coils are worn a little flat. These aren't too bad, but you can see how it could develop into a real problem.



This view shows how the wear is worse on one end of the spring. If you are in the tranny, it might be a good idea to carefully inspect these springs and replace any that are worn flat anywhere.