

SF/PB 400 Armature Release Spring

P-1368
819-0030

Installation Instructions

⚠ WARNING Failure to follow these instructions may result in product damage, equipment damage, and serious or fatal injury to personnel.

In the normal installation of a size 400 clutch or brake, no provision is made to provide a positive clearance between friction surfaces. Installation of the release springs, as described below, will maintain a clearance between the armature and rotor or replaceable face when the unit is de-energized. This feature will eliminate the noise or drag often developed in units without the release springs.

The Spirolox ring, inserted behind the snap ring furnished with the hub will act as a spacer and will assure proper release spring operation.

Accessory No. 5104-101-003-contains 2 release springs, No. 808-0079, for size 400.

Installation:

Insert the release springs into the backing plate holes of the armature as shown in figure 1. Bow the springs as necessary to insert in the armature. The springs are curved in the free state. The curve at the center of the spring should bear against the armature when in place.



Figure 1

Remove the snap ring from the hub. Insert the hub into the armature from the segment side. Slide the hub into the armature until the release springs engage the snap ring groove. (See Figure 2)



Figure 2

Assemble the snap ring into the groove in the hub, clamping the release spring against the end of the spline. (See Figure 3)



Figure 3

Slide armature and hub assembly on shaft to where the armature is in contact with the mating rotor or magnet face. Slide armature hub back approximately 1/32" for free running clearance. (See Figure 4)



Figure 4

With the armature hub secured to the shaft and the coil de-energized, the springs will return the armature axially on the spline until it makes contact with the snap ring.

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