

## SQUARE SEAL BRAKE CALIPER/1980 FL, FX MODELS

All 1980 FL and FX motorcycles above VIN 26625-J0 (approximately 11/14/79) have the new square seal calipers installed on both the front and rear brake systems of the FL and the rear brake system of the FX models. This type of brake caliper is much simpler with fewer components. Instead of a spring retractor system, the caliper now features a square cross section seal (see Figure 1).

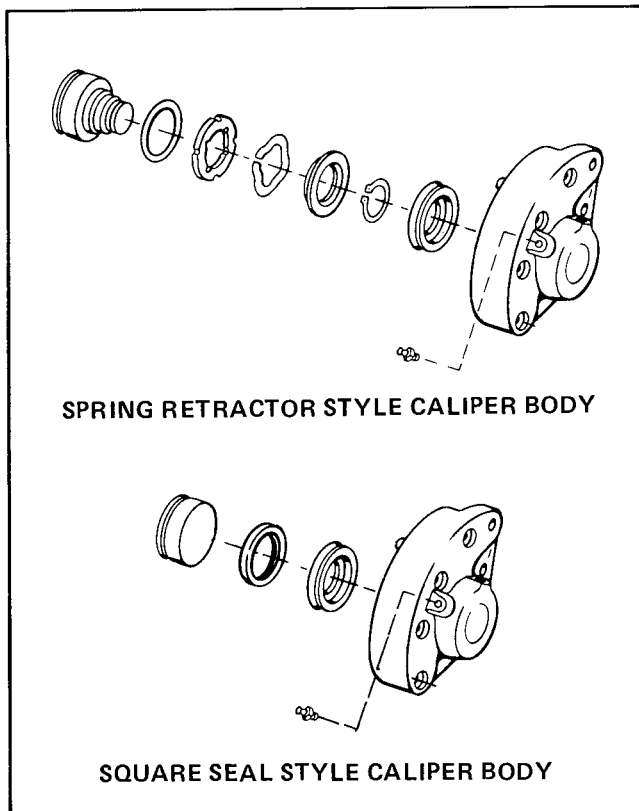


Figure 1. Old and New Caliper Body Styles  
Exploded View

To make the square seal calipers distinguishable from the old style spring retractor units, the front caliper assembly, Part No. 44000-78C, is marked with an additional letter "F" on the piston side subassembly. The rear caliper assembly, Part No. 44001-78B, is marked with an additional letter "R" on the piston side subassembly, along with the stamping already found on the top of all caliper assemblies (see Figure 2). There is a slight difference between the front and rear square seal grooves which causes different retraction amounts. These markings help keep the units separated.

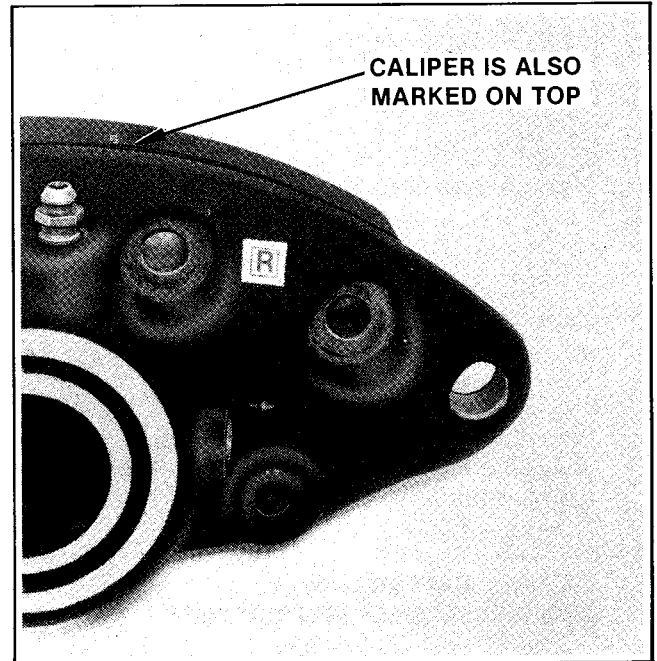


Figure 2. Location of New Caliper Marking

## CAUTION

**Front and rear calipers are not interchangeable. Braking can be affected if calipers are not installed as marked.**

These new calipers are more easily maintained and contain fewer moving parts (see Figures 3 and 4). The square seal sits in a machined groove in the caliper bore. As the piston is forced out, the seal moves against the chamfer of the caliper groove. When the brake lever is released, the seal springs back, retracting the piston.

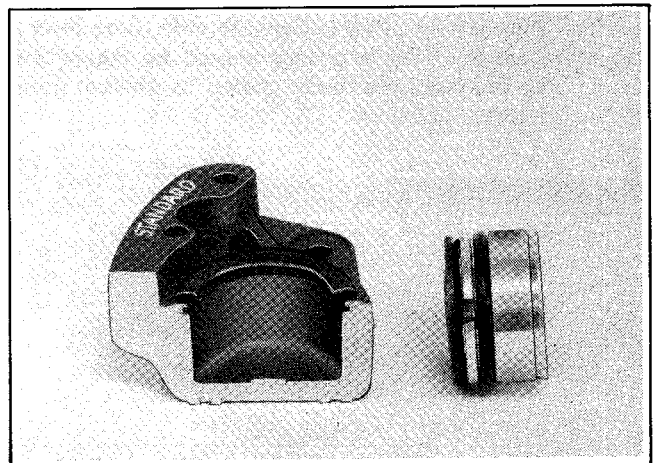


Figure 3. Old Style Caliper and Piston

