

### H I G H P E R F O R M A N C E T R A N S M I S S I O N P A R T S

#### Part No.

#### 76890-17K/17KP

"Super Hold" Servo Kits

4 Conical Washers

1 D-Ring Piston Seal

1 Spacer

1 Return Spring

1 Servo Pin

1 "E" Clip

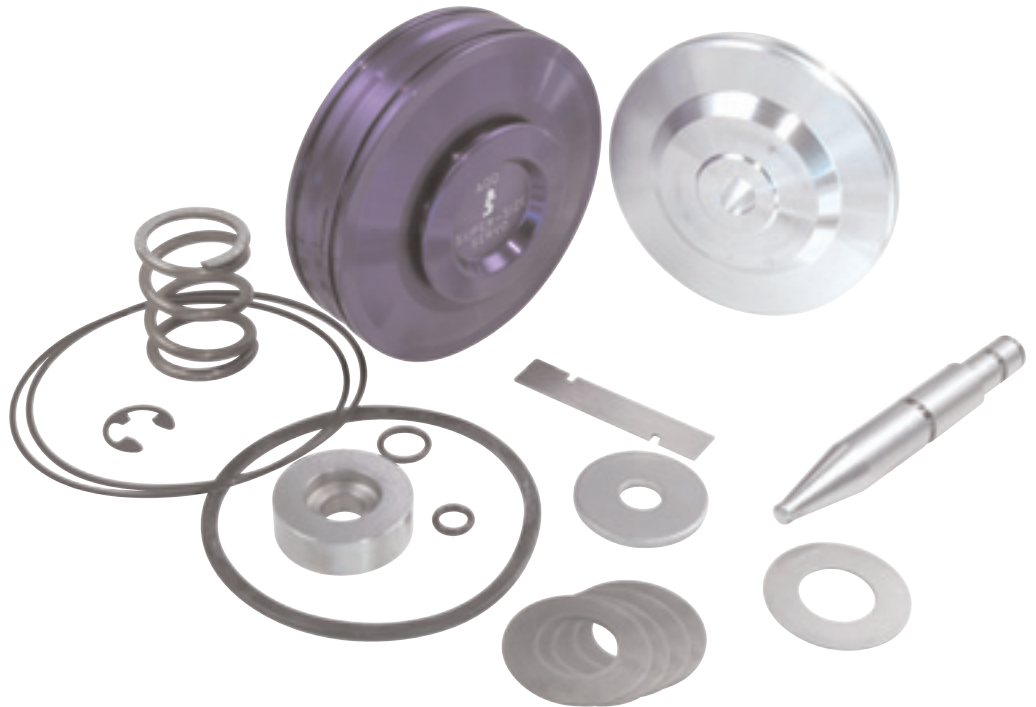
1 Servo Piston

1 Servo Cover  
-17K is non-anodized  
-17KP is purple anodized

4 O-Rings

2 Washers

1 Gauge Tool



Also Available:

#### Part No.

#### 76890-15K

Replacement Pin Kit

1 Servo Pin

1 "E" Clip

2 O-Rings

1 Gauge Tool

#### Part No.

#### 76890-17SK

Replacement Seal Kit

1 D-Ring Piston Seal

4 O-Rings

#### CAUTIONS:

- Use caution when removing original servo as components are under spring tension.
- Installation requires transmission pan and valve body removal. It is suggested to have a new set of valve body gaskets and a pan gasket before beginning.
- Servo travel and apply pin length must be checked and adjusted before use.

- When the servo is removed, the band end will move out of position. The servo cannot be reinstalled until the band is repositioned. Figure 1 illustrates how to use a piece of coat hanger or similar stiff wire to keep the band pushed over toward the servo.

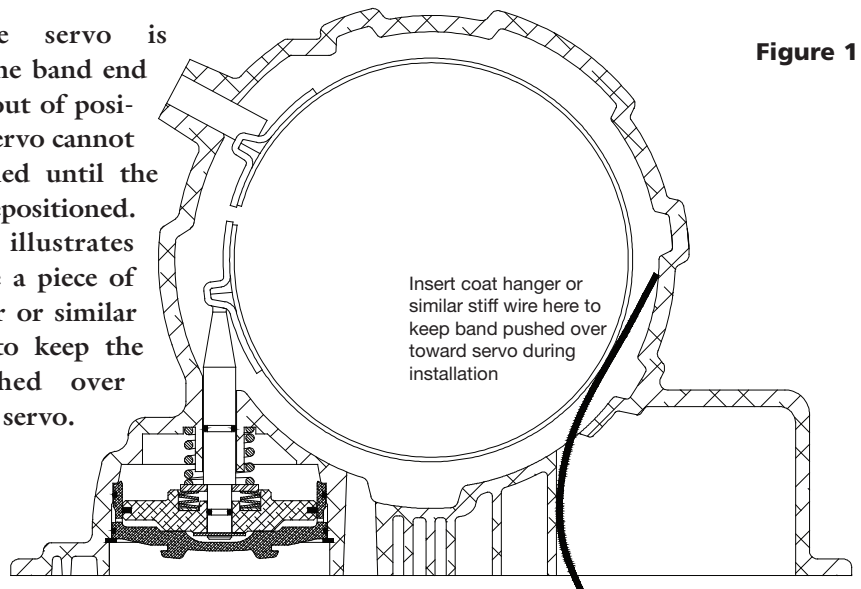


Figure 1

## REMOVAL OF ORIGINAL SERVO

1. Remove transmission pan and valve body.
2. Remove overdrive servo retaining ring and servo assembly from case. This is the large circular piston at the front of the case.
3. Discard all pieces of the original servo except the case retaining ring.

Figure 2

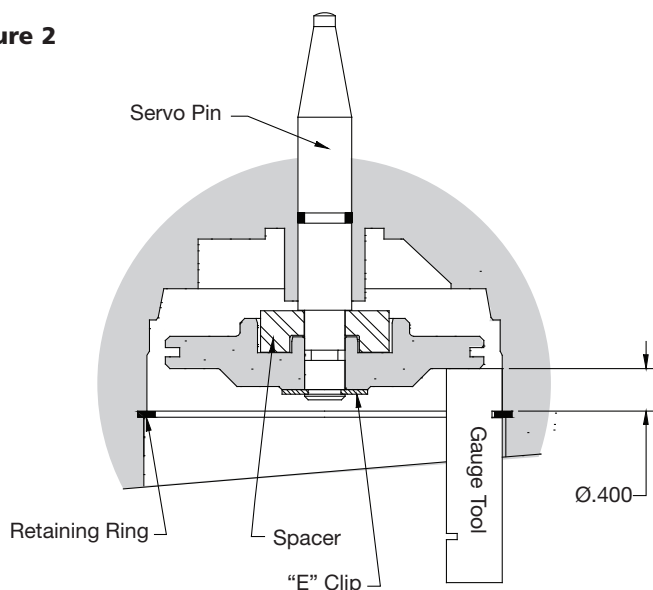
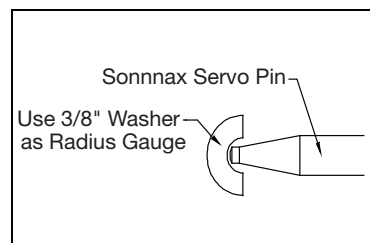


Figure 3



For servo travel of .115" grind servo pin until clearance between top of snap ring and bottom of piston = .400".

## CHECK AND ADJUST SERVO TRAVEL

1. Assemble the Sonnax servo with the spacer as shown in Figure 2 **without** any seals.
2. Temporarily install the case retaining ring into the case.
3. Insert servo assembly (without cover) into case. Push the servo until bottomed against the band.  
**NOTE:** Ensure the pin properly engages the band by positioning the band as shown in Figure 1.
4. Use gauge tool included in the kit to measure between servo piston and retaining ring. Grind pin tip as necessary until gauge fits as shown in Figure 2.
5. When grinding pin tip, maintain radius as shown in Figure 3.

## SERVO SET-UP

- The recommended set-up is with conical washers as shown in Figure 4. The conical washers do not interfere with maximum holding power but reduce excessive harshness and minimize 3-4 shift timing concerns that can occur when installing a larger overdrive servo.
- For firmer shifts, an optional set-up is with the steel spacer installed in place of the conical washers, as shown in Figure 5.

Figure 4

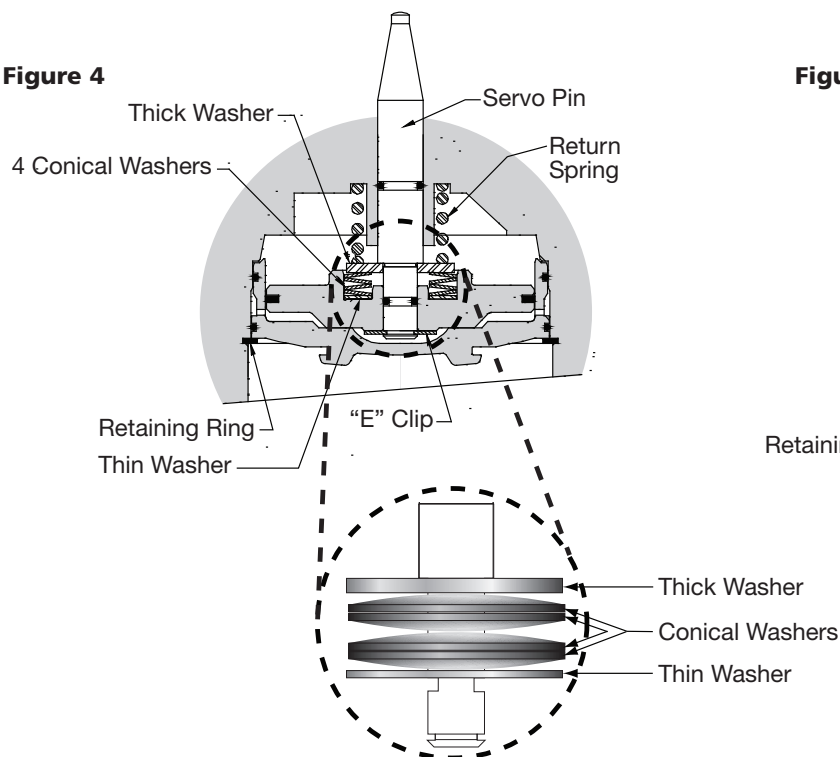
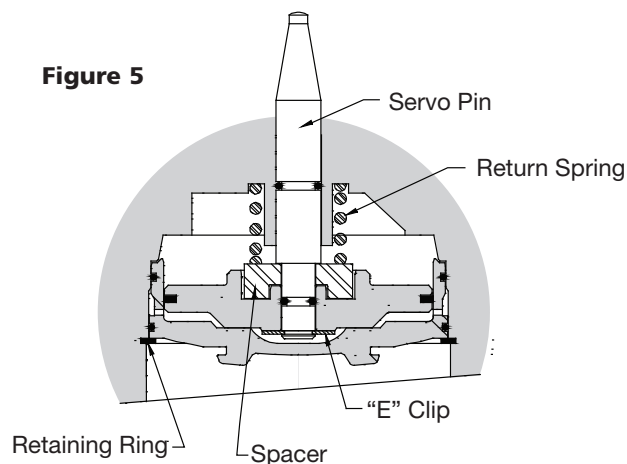


Figure 5



## FINAL ASSEMBLY

1. Install seals onto servo pin, piston and cover. Lubricate seals and bore with Transjel™ or petroleum jelly.
2. Assemble the servo piston/pin with the conical washers (Figure 4) or with the spacer (Figure 5).
3. Place return spring over pin.
4. Insert piston into cover first, then install the servo assembly into the case.  
**NOTE:** Ensure the pin properly engages the band by positioning the band as shown in Figure 1.
5. Carefully push servo assembly into case, compressing the return spring, and install the retaining ring.
6. Reinstall valve body. Tighten valve body bolts in a circular pattern in steps to a final torque of 80–100 in. lbs.