

## Case Saver Kit

### Part No.

**144281-01K**

- .020" Shim with Tab 2.50" O.D.
- .040" Shim with Tab 2.50" O.D.
- .010" Shim with Notch 2.50" O.D.
- .010" Shims w/o Notch (2) 2.78" O.D.
- Thrust Bearing Driven Sprocket/Case

## Ford 6F35 (Gen. 1, 2 & 3); GM 6T40 (Gen. 1 & 2)



Figure 1



Figure 1a

Advanced wear ridge caused by spinning bearing



Figure 1b

Early Stages of Wear

### 1. Installation

- Check level of wear on differential support (Figure 1, a & b). Take measurement from the top of the wear ridge to the bearing riding surface (Figure 2).
- Depending on depth of wear, different combinations of Sonnax shims can be used to restore proper endplay (Figure 3).

Figure 3

Wear Depth	Sonnax Shim(s)
.015-.025"	.020" with tab
.025-.035"	.010" with notch & .020" with tab
.035-.045"	.040" with tab
.045-.055"	.010" with notch & .040" with tab



Figure 2

### 1. Installation (continued)

- c. When using multiple shims, pay attention to correct order of installation. The .010" notched shim, when used, is placed directly on the differential support; the .020" or .040" tabbed shims are then placed on top. Always ensure tabs and notches line up with oil flow slot on differential support (Figure 4).
- d. Place Sonnax thrust bearing on top of shims.
- e. Check other half of case for wear (Figure 5 & 5a). If wear exceeds .005", install (1) .010" thick (non-notched) Sonnax shim under thrust bearing. If wear exceeds .015", install both .010" thick, non-notched shims under bearing.
- f. While there is no published endplay specification, study of new 6F35 transmissions shows endplay from the factory to be between about .008" and .020". After installation of Sonnax kit, verify endplay has been restored to this window.

### 2. Check Endplay

- a. Install differential (including sun gear), then place case halves together. Install two or three case bolts.
- b. Mount dial indicator as shown (Figure 6). Push from opposite side of differential and observe reading.

