

## Smart-Tech® Direct Clutch Drum & Shaft Kit

### Part No.

## 76656-01K

- Forward Sun Gear 31-Tooth
- Clutch Drum - with Integrated Stub Shaft
- Piston
- Seal Large, Outer
- Seal Small, Inner

Patent No. 9,562,573



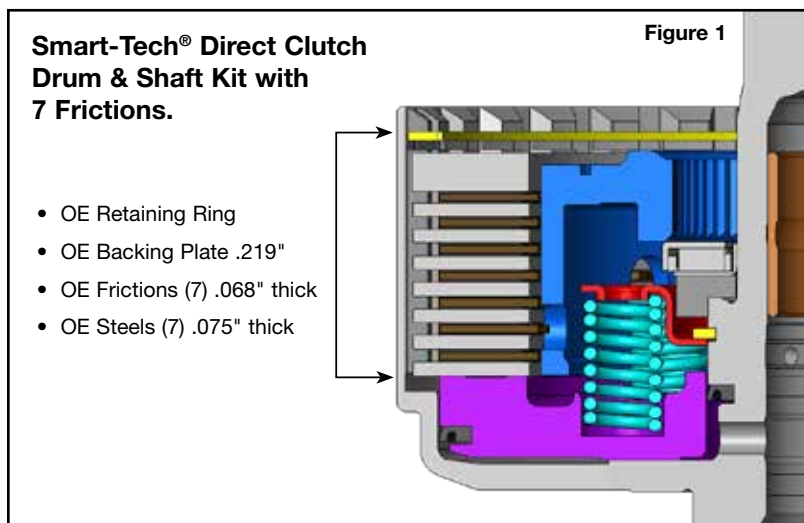
**NOTE:** Fits all 2.84/1.55 gear sets. Can be used with 2.40/1.46 gear sets when late AODE sun gear is substituted. Early AOD sun gears cannot be used due to smaller bore. Bore must be at least 1.120" to fit over shaft spline.

## Ford 4R70E, 4R70W, 4R75E, 4R75W, AODE



### 1. Clutch Assembly Information

This Smart-Tech® direct clutch drum and shaft kit is set up to accommodate one additional 4R70W OE thickness .068" friction plate and .075" steel plate for a total (7) .068" frictions and (7) .075" steels with OE .219" thick backing plate. Other clutch/steel combinations are possible. OE recommended clutch clearance is .010–.014" per friction. See list of selective retaining rings for adjusting clutch clearance (**Figure 2**).



- Assemble inner lip seal onto shaft portion of drum (**Figure 1**).
- Assemble outer lip seal onto piston.
- Install piston into Sonnax direct drum. Special lip seal protector installation tools are available to help with piston installation. Reference OE tool T80L-77254-A.
- Install return spring and retainer.
- Install clutches, steels, backing plate and retaining ring (**Figure 1**).
- Check clutch clearance by maintaining downward pressure on backing plate, and measuring clearance between backing plate and retaining ring.
- Adjust clearance as necessary with selective retaining rings (**Figure 2**) or different thickness steels.

## 2. Unit Assembly

- a. Follow published assembly procedures for 4R70E, 4R70W, 4R75E, 4R75W and AODE transmissions.
- b. Assemble transmission with Sonnax clutch drum– with integrated stub shaft into transmission in place of OE direct drum and stub shaft.
- c. Install Sonnax 31-tooth Forward sun gear in place of OE Forward sun gear.

Figure 2

Retaining Rings	OE Part Numbers	Thickness
	F3AZ-7D483-A	.052"
	F3AZ-7D483-B	.066"
	F3AZ-7D483-C	.080"
F3AZ-7D483-D	.094"	