

## SmartShell™

**Part No.**  
**77749-02K**

- Heavy Duty Reaction Shell
- Four-Tab Enclosed Thrust Bearing
- Custom Roller Clutch Race

Patent Pending

## GM 4L60, 4L60-E, 4L65-E, 4L70-E

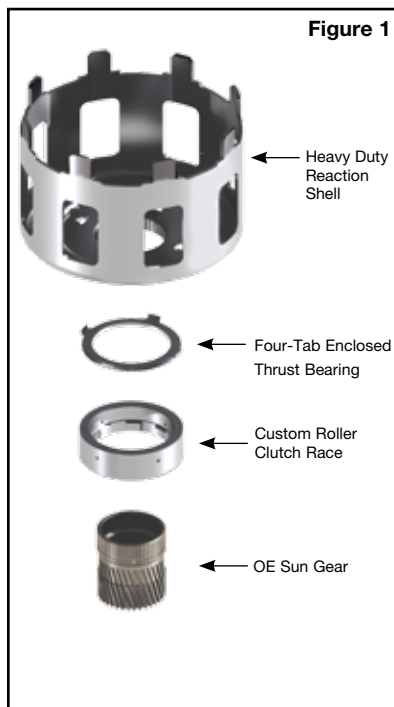


### 1. Installation & Assembly

- Remove and discard original reaction sun shell, low/reverse roller clutch race and black plastic reaction shell to roller clutch race thrust washer.
- Install Sonnax custom roller clutch race with inner lugs locking into mating lugs on rear planet.
- Install (rear) OE reaction sun gear.
- Install Sonnax four-tab enclosed thrust bearing (**Figure 1**). Tabs should engage holes in shell.
- Install Sonnax SmartShell.
- Install reaction shaft to shell four-tab thrust washer *or* reaction shaft to shell bearing.
- Finish assembly using normal procedures.

### 2. Endplay Adjustment

Endplay specification is .005" / .035" [0.13mm / 0.89mm].



Endplay Adjustment at Input Housing Thrust Bearing				
Sonnax #	Qty	Thickness	Thickness	I.D.
77409-15	(qty 10)	.015"	0.38mm	
8642074		.120" - .124"	3.05mm - 3.15mm	#74
8642073		.114" - .118"	2.90mm - 3.00mm	#73
8642072		.107" - .111"	2.72mm - 2.82mm	#72
8642071		.100" - .104"	2.54mm - 2.64mm	#71
8642070		.094" - .098"	2.39mm - 2.49mm	#70
8642069		.087" - .091"	2.21mm - 2.31mm	#69
8642068		.080" - .084"	2.03mm - 2.13mm	#68
8642067		.074" - .078"	1.88mm - 1.98mm	#67
Alternate Endplay Adjustment at Output Ring Gear Support to Case				
Sonnax #	Qty	Thickness	Thickness	I.D.
77406-10	(qty 10)	.010"	0.25mm	