

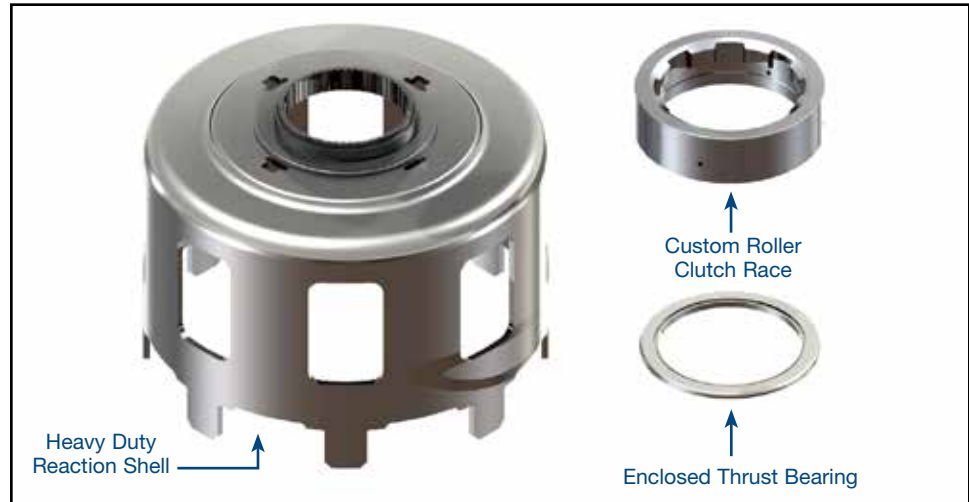
SmartShell®

Part No.
77749-02K

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

Patent No. 8,377,365

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 enclosed thrust bearing so the bearing race will contact the shell as seen in (Figure 1).
- 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 No.	Thickness		I.D. No.
77409-15 (Qty 10)	.015"	0.38mm	-
GM No.	Thickness		I.D. No.
8642074	.120-.124"	3.05-3.15mm	#74
8642073	.114-.118"	2.90-3.00mm	#73
8642072	.107-.111"	2.72-2.82mm	#72
8642071	.100-.104"	2.54-2.64mm	#71
8642070	.094-.098"	2.39-2.49mm	#70
8642069	.087-.091"	2.21-2.31mm	#69
8642068	.080-.084"	2.03-2.13mm	#68
8642067	.074-.078"	1.88-1.98mm	#67
Alternate Endplay Adjustment at Output Ring Gear Support to Case			
77406-10 (Qty 10)	.010"	0.25mm	

