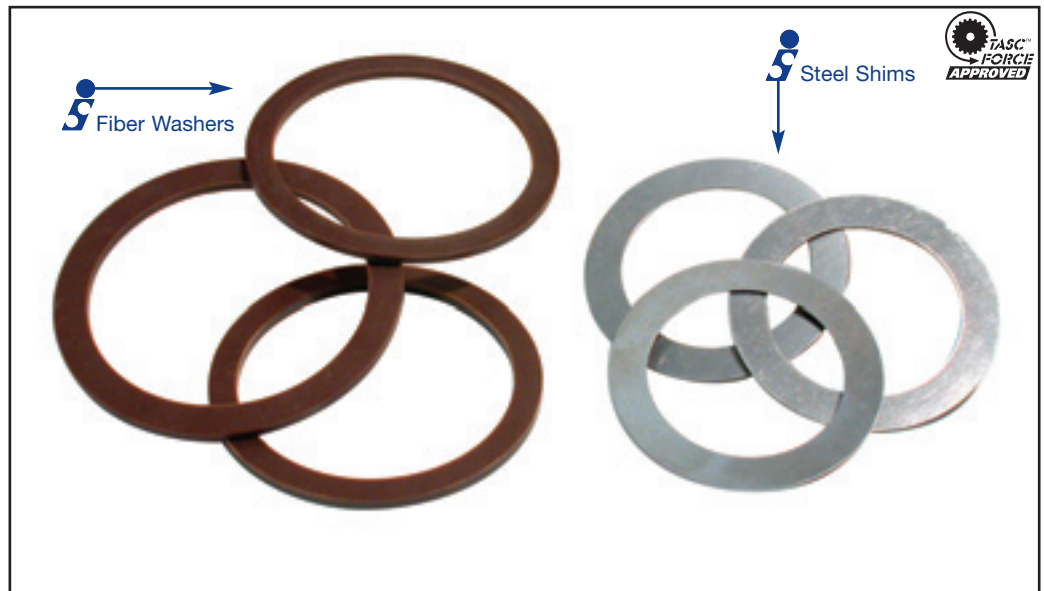


## Endplay Shim Kit

### 42000-01K

7 Fiber Washers

6 Steel Shims



### Washer and Shim Reference and Location Chart

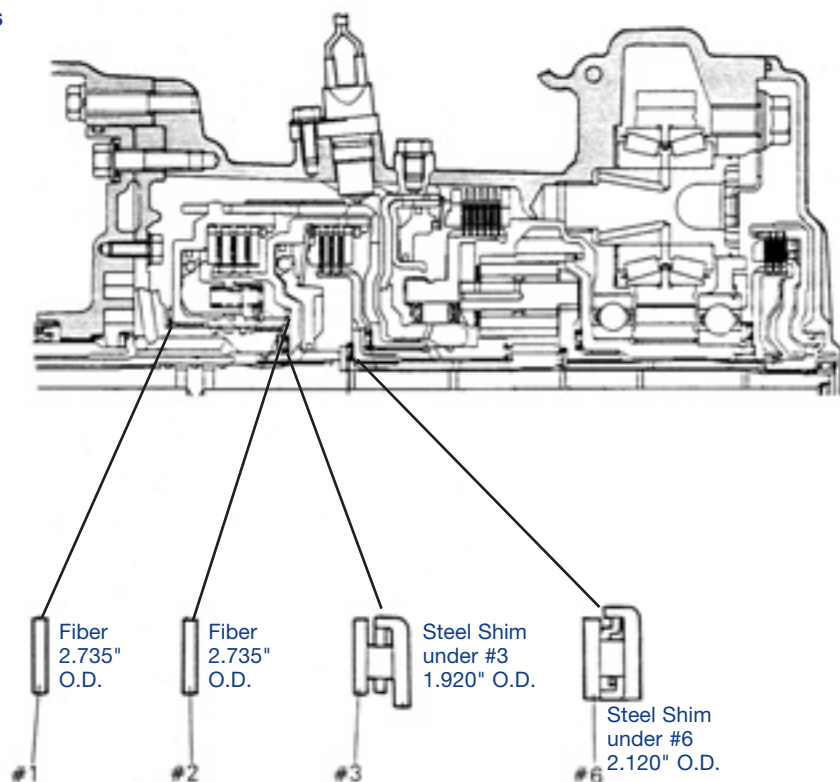
Bag #	Material	20 Series Location	30 Series Location	O.D.	I.D.	Thickness
<b>1</b>	Fiber	#1 Pump, and #2 Front drum to rear Drum	#1 Pump	69.47mm (2.735")	55.88mm (2.200")	1.143mm (.045")
	Fiber	#1 Pump, and #2 Front drum to rear Drum	#1 Pump	69.47mm (2.735")	55.88mm (2.200")	1.600mm (.063")
	Fiber	#1 Pump, and #2 Front drum to rear Drum	#1 Pump	69.47mm (2.735")	5.88mm (2.200")	2.210mm (.087")
	Fiber	#1 Pump, and #2 Front drum to rear Drum	#1 Pump	69.47mm (2.735")	55.88mm (2.200")	2.921mm (.115")
<b>2</b>	Fiber	Not Applicable	#2 Front drum to rear drum	65.53mm (2.580")	54.10mm (2.130")	2.007mm (.079")
	Fiber	Not Applicable	#2 Front drum to rear drum	65.53mm (2.580")	54.10mm (2.130")	2.388mm (.094")
	Fiber	Not Applicable	#2 Front drum to rear drum	65.53mm (2.580")	54.10mm (2.130")	2.997mm (.118")
<b>3</b>	Steel	#3 Pump bearing	#3 Pump bearing	48.77mm (1.920")	37.08mm (1.460")	.254mm (.010")
	Steel	#3 Pump bearing	#3 Pump bearing	48.77mm (1.920")	37.08mm (1.460")	.508mm (.020")
	Steel	#3 Pump bearing	#3 Pump bearing	48.77mm (1.920")	37.08mm (1.460")	.762mm (.030")
<b>6</b>	Steel	#6 Rear clutch drive hub*	#6 Rear clutch drive hub	53.85mm (2.120")	38.74mm (1.525")	.254mm (.010")
	Steel	#6 Rear clutch drive hub*	#6 Rear clutch drive hub	53.85mm (2.120")	38.74mm (1.525")	.508mm (.020")
	Steel	#6 Rear clutch drive hub*	#6 Rear clutch drive hub	53.85mm (2.120")	38.74mm (1.525")	.762mm (.030")

# KM175, 176 & 177

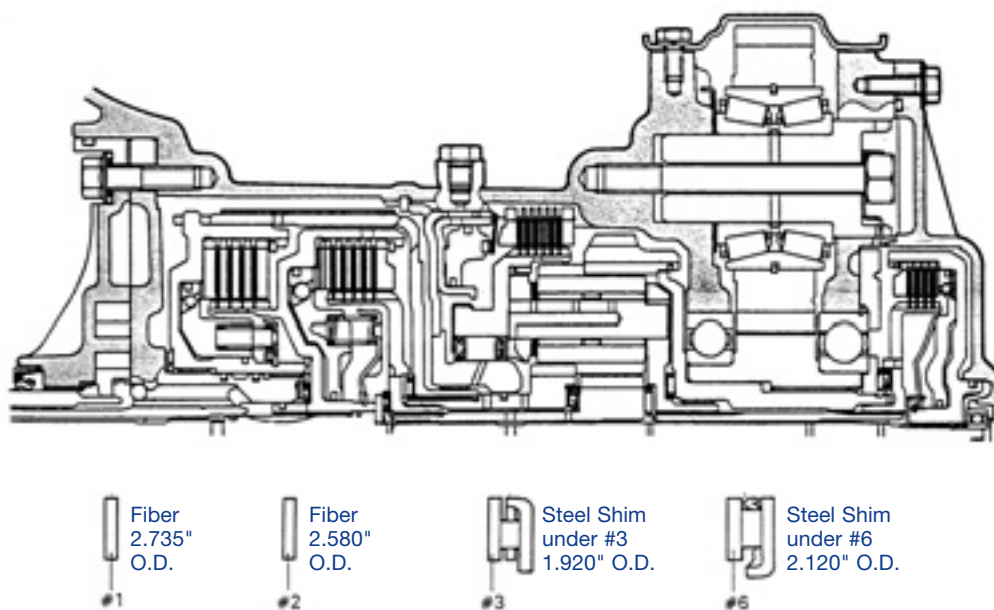
PART NUMBER 42000-01K

Endplay Shim Kit

## 20 Series Locations



## 30 Series Locations



## Installation Instructions

Please reference the location chart and thrust washer illustration for proper washer locations. There are 4 bags in this kit, labeled according to their washer location. They are BAG 1, BAG 2, BAG 3 and BAG 6.

### BAG 1 -

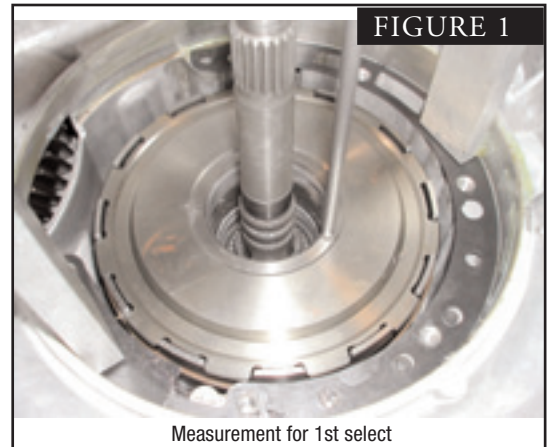
Pump and front drum to rear drum fiber washers

These fiber washers control the pump endplay for both 20 and 30 series units and front (reverse/3rd) drum endplay for 20 series units.

1. Starting at location #1, measure endplay using an H-gauge or equivalent method. See Figure 1.
2. Using the appropriate amount of fiber washers, set endplay to .010" - .025".
3. For location # 2 (pump) on 20 series units, use the fiber washers from BAG 1 but use measurements from Figure 2.



CAUTION! Be careful when using thicker washers in this location as they can push the drum off the sealing rings.



### BAG 2 -

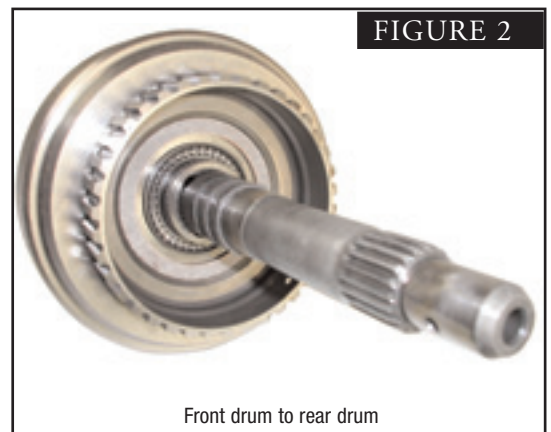
Front drum to rear drum fiber washers (30 series ONLY)

These fiber washers control front to rear clutch endplay

1. Starting at location #2, measure the endplay using an H-gauge or equivalent method. See Figure 2.
2. Using the appropriate amount of fiber washers, set endplay to .010" to .025".



CAUTION! Be careful as the bottom friction plate in the front clutch may not fully engage the splines of the rear clutch drum!



# KM175, 176 & 177

## Endplay Shim Kit

PART NUMBER 42000-01K

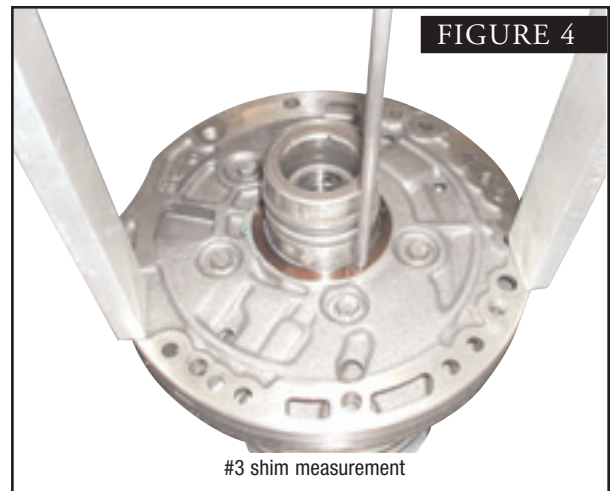
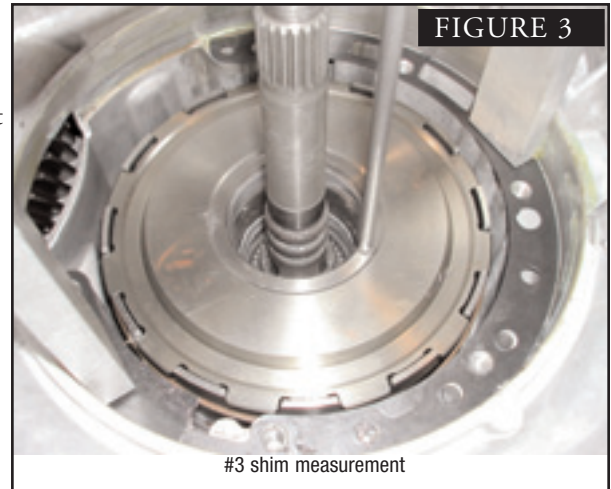
### BAG 3 -

Pump bearing steel shims for both 20 and 30 series units

These steel shims control total unit endplay.

1. Starting at location #3, measure the endplay using an H-gauge or equivalent method. See Figures 3 & 4.
2. Using the appropriate amount of steel shims, set endplay to .012" to .039".

**Note:** Total unit endplay is measured at end of turbine shaft, in vs. out.



### BAG 6 -

Rear clutch drive hub steel shims for both 20 and 30 series units

These steel shims prevent the rear clutch hub from contacting the sunshell by lifting the complete clutch drum assembly.

1. Starting at location #6, use appropriate amount of steel shims to lift the drum assembly to avoid contact with the sunshell. See Figure 5.
2. Install the shim directly against the hub with the OEM race on top of the shim.

