



400, 4L80-E

FORWARD CLUTCH HUB WASHERS (FRONT)

H I G H P E R F O R M A N C E T R A N S M I S S I O N P A R T S

Part No.

34298-078

5 Washers, .078" Thick

INSTALLATION INSTRUCTIONS

1. Set rear endplay to .005" - .025" travel.
2. Install **34298-078** between forward clutch drum and forward clutch hub.
3. Push up on rear output shaft to take up rear endplay.
4. Check front unit endplay and verify .005"-.025" travel.
5. Further adjustments can be done in combination with OEM washers listed below.

FRONT UNIT ENDPLAY

400 OEM Shims	Color	No.
.060"-.064"	Yellow	0
.071"-.075"	Blue	1
.082"-.086"	Red	2
.093"-.097"	Brown	3
.104"-.108"	Green	4
.115"-.119"	Black	5
.126"-.130"	Purple	6

FRONT UNIT ENDPLAY

4L80-E OEM Shims	Color
.057"-.061"	Blue
.073"-.077"	Red
.089"-.093"	Brown
.105"-.109"	Green
.121"-.125"	Plain

Notes: Under normal circumstances the direct drum and sun gear shaft are not involved in controlling front or rear unit endplay. For example, the OE front and rear endplay could be checked or set without the direct drum or sun gear shaft installed. Sonnax part numbers **34301-078** and **-094** can alter the endplay path through the unit, transferring the endplay from the main shaft to the sun gear shaft.

OE endplay path = forward drum / forward clutch hub / main shaft / rear internal gear / output shaft.

Altered endplay path with **34301-078** and **-094** = forward drum / forward clutch hub / direct drum / sun gear shaft / sun gear / rear internal gear / output shaft.

The altered endplay path has the benefit of making the direct drum more stable, but in higher RPM applications the high relative speed between the direct drum and the forward clutch hub can cause premature wear of the **34301-078** & **-094** washers. For higher RPM applications it is advisable to check direct clutch drum free play by installing the forward clutch hub onto the main shaft and ensuring there is some up-and-down free play of the direct drum.