



TORQUE CONVERTER PARTS

FD-TL-1E, -2E, -3E, -1S

SEAL EXPANDER AND SIZING TOOLS

Part No. & Application

FD-TL-1E

Seal Expander Tool

CD4E, 9 1/4", 3.0L Escape & Tribute

Associated Items:

- **FD-HT-5HS** Turbine Hub
- **FD-O-12** Seal Ring

Part No. & Application

FD-TL-2E

Seal Expander Tool

5R55N

Associated Items:

- **FD-HT-37HS** Turbine Hub
- **FD-O-14** Seal Ring

Part No. & Application

FD-TL-3E

Seal Expander Tool

AX4N

Associated Items:

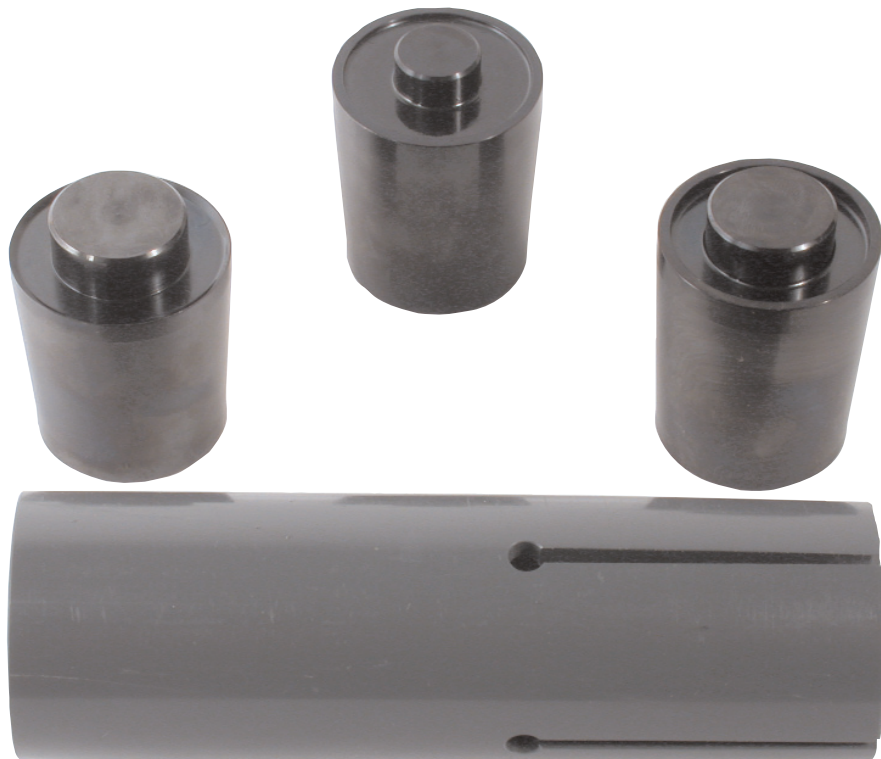
- **FD-HT-38HS** Turbine Hub
- **FD-O-12** Seal Ring

Part No. & Application

FD-TL-1S

Seal Ring Sizing Tool

Used With All Expander Tools



Sold in prepackaged quantities of 1 unit

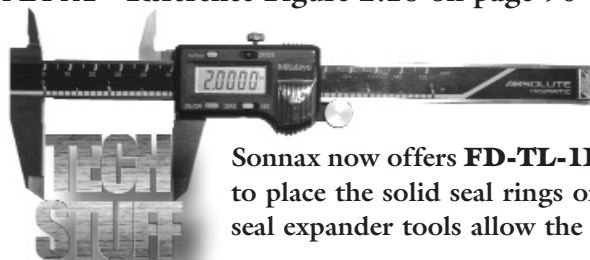
Please refer to our

2003 TORQUE CONVERTER PARTS CATALOG

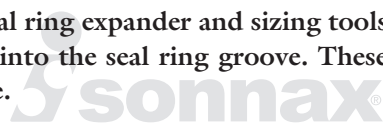
CD4E - Reference Figure 2.14 on page 86

5R55N - Reference Figure 2.09 on page 76

AX4N - Reference Figure 2.16 on page 90



Sonnax now offers **FD-TL-1E, -2E, -3E** and **FD-TL-1S** solid seal ring expander and sizing tools to place the solid seal rings onto the turbine hubs and size them into the seal ring groove. These seal expander tools allow the seals to be installed without damage.



Seal Expander and Sizing Tools

TO INSTALL SOLID SEAL RINGS:

1. Lubricate seal ring, seal expander & turbine hub with TransJel™ or equivalent lubricant.
2. Slide new seal ring onto the small end of seal expander.
3. Place pilot end of seal expander into turbine hub, butting up against the turbine hub.
4. Slide new seal ring to the large end of the seal expander with the split end of the sizing tool **FD-TL-1S** until seal is over the groove.
5. Remove the expander tool from the turbine hub. Push new seal ring into groove on the turbine hub with the solid end of the sizing tool **FD-T1-1S**.