

## Pump Stator Bushings

### 120003K

1 Large Bushing  
1 Small Bushing

### 120003-TL

1 Removal Tool

**Note:** This tool will remove pump stator bushings from both Renault DPO and Citroen AL-4 transmissions without damage to the bore.

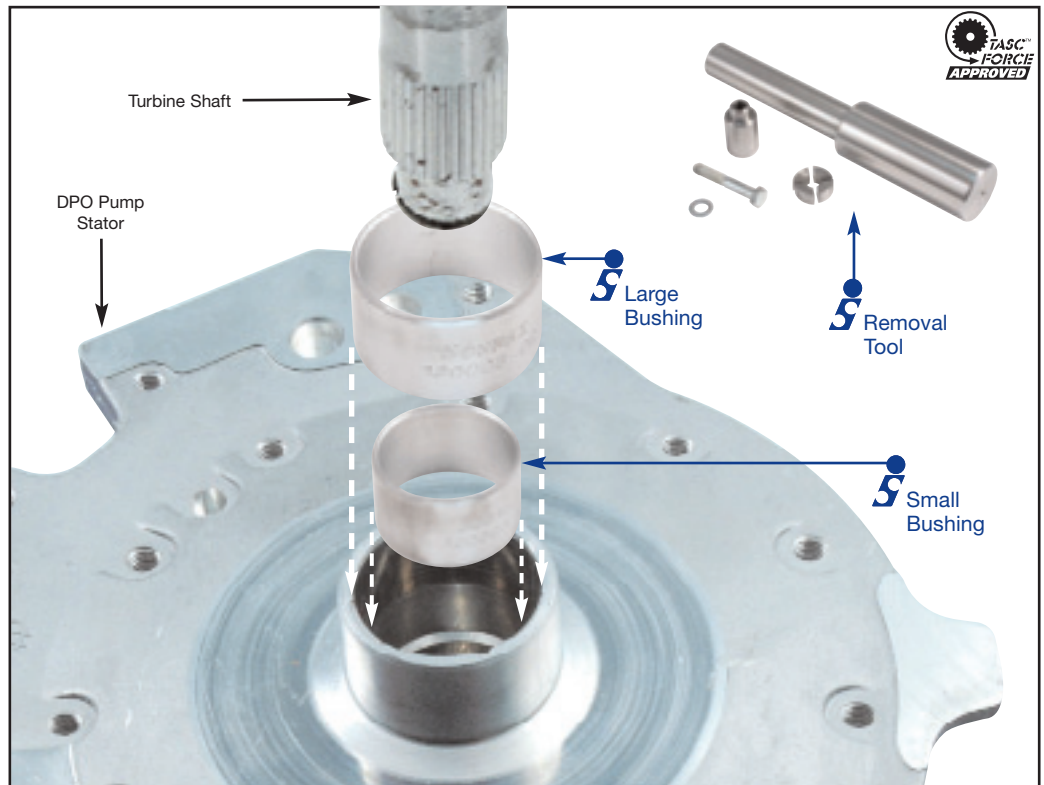
Also available

### 120003-01

1 Small Bushing

### 120003-02

1 Large Bushing



### Instructions:

Remove old bushings from pump stator. Try to minimize scoring of housing I.D. (use Sonnax removal tool **120003-TL**).

### Using Sonnax Tool 120003-TL:

Remove smaller bushing first (see Figure 1):

1. Insert tool shaft through larger bushing.
2. Press smaller bushing out and away from larger bushing using only the tool handle.

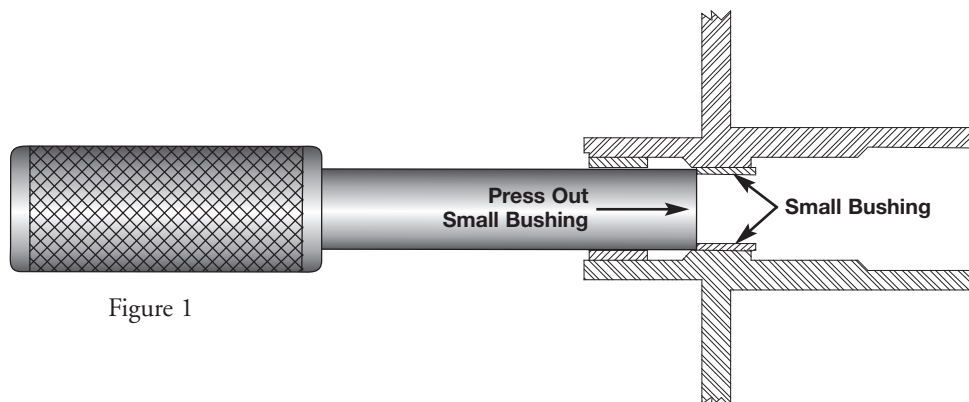


Figure 1

### PART NUMBERS 120003K, 120003-TL

Remove larger bushing (see Figure 2):

1. The larger bushing must be pressed out and away from the smaller bushing location (this requires all components included in the tool kit).
2. Insert tool from the smaller bushing side so that it is about 1 cm away from the inner edge of the larger bushing (knurled handle wants to be in the down position so that you are able to look down through the bushing and see the threaded hole on the tool).
3. Place the four individual wedge segments around threaded hole and position them at the outer edge of the housing (these wedge segments should be located below the inner edge of the bushing).
4. Insert the spreader into the bushing so that the spreader's smaller diameter fits into the inner radius of the four wedge segments.
5. Place the washer on the M8 bolt, slide the M8 bolt through the spreader and thread into the tool.
6. Bushing is now ready to be pressed out of housing.

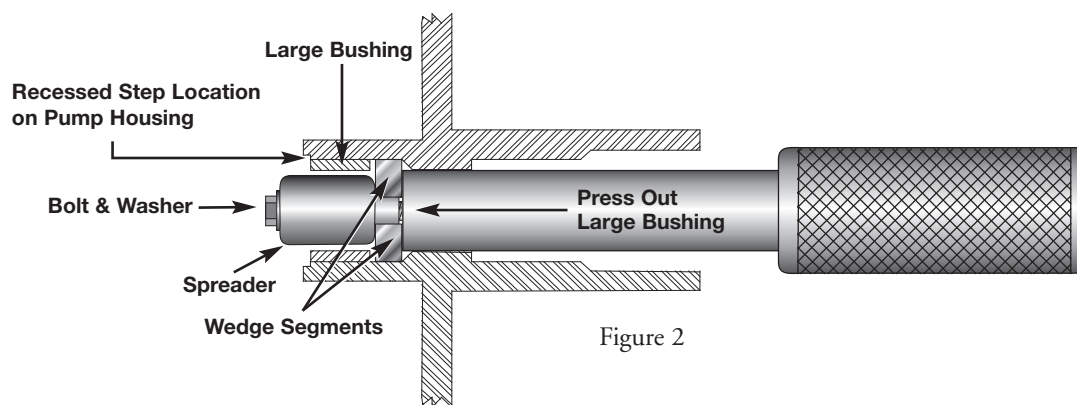


Figure 2

### Installation:

**Note:** Remove any OE staking marks from the outside lip of the bushing bores to prevent damage to new bushing and to ease installation.

1. Both bushings will be installed left side as seen in the removal illustrations. The Sonnax tool is not used for installation. Use standard bushing installers. Bushings are chamfered on both ends and can be installed either way.
2. Small/inner bushing depth: The bushing bore lip has a small chamfer. Set the bushing down even with the bottom edge of the chamfer.
3. Large/outer bushing depth: Set flush with bottom of recessed step.
4. Use light staking (similar to OE) on larger diameter bushing to prevent bushing from backing out.