

## Oversized PR Valve & Boost Valve Assembly Kit

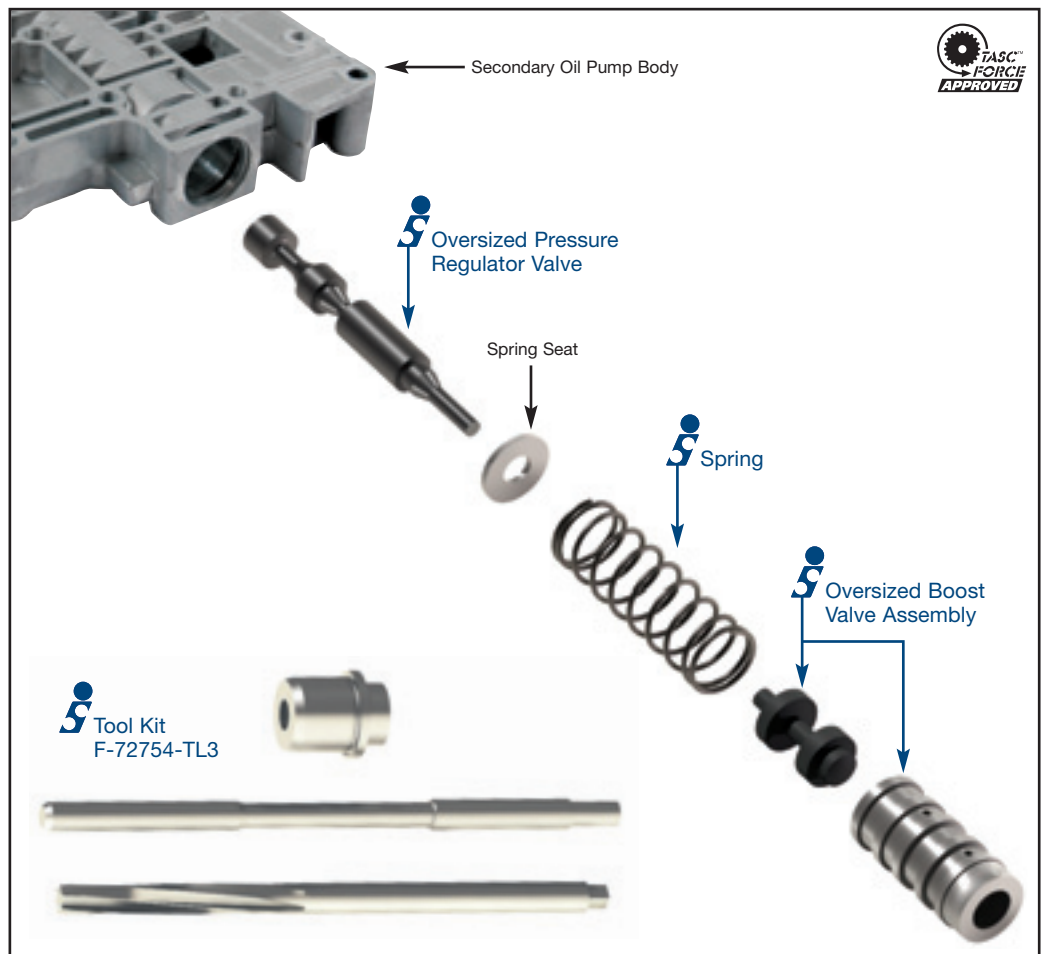
### 72754-03K

1 Spring  
1 Oversized Pressure Regulator Valve  
1 Oversized Boost Valve Assembly



### F-72754-TL3

1 Reamer  
1 Guide Pin  
1 Reamer Jig



### Prep and Set-up

1. Remove all components from the bore. Save the spring seat.
2. Clean the bore thoroughly in a solvent tank.
3. Place the valve body on the reaming fixture (VB-FIX). Align and secure the valve body to the fixture according to the VB-FIX instructions, using the guide pin and reamer jig from the F-72754-TL3 tool kit. Do not loosen wing nuts or clamp, once position has been established until, the entire reaming process is complete.
4. Remove the guide pin.
5. Soak the bore and reamer with cutting fluid (Mobilmet S-122, Lubegard Bio-Tap, Tap Magic™, etc). For best results, provide a continuous flow of water-soluble cutting fluid (i.e. Mobilmet S-122) during the reaming process.
6. Gently insert the reamer through the jig and into the bore until the cutting tip contacts the first bore to be reamed.
7. Select the correct sized socket to fit the square shank of the reamer, and attach it to a wobble/swivel socket drive.

## Reaming

(We recommend you review the Sonnax reaming DVD or go the Sonnax website for a video preview of reaming.)

1. The reamer should be turned either by hand using a speed handle or by a low rpm, high torque air drill regulated to a maximum of 200 rpm.
2. The reaming action should be clockwise in a smooth and continuous motion, at 60-200 rpm. The reamer should actually pull itself through the bore, so little or no forward force should be applied.
3. Continue reaming until the reamer stop is reached.

## Finish and Clean-up

1. Using low air pressure, blow the chips free before removing the reamer.
2. To remove the reamer, turn clockwise while slowly pulling outward on the reamer.
3. Remove any remaining debris from the bore with low air pressure and clean in a solvent tank.
4. Examine the bore after cleaning for surface finish, debris, and burrs. Flashing and burrs on the exit side of casting bores can be carefully removed with a small piece of Scotchbrite™ on the end of a long wire.
5. Clean the reamer after each use and store in its protective tube.

## Cautions and Suggestions

1. Turning the reamer backward will dull it prematurely.
2. Pushing on the reamer will result in poor surface finish and inadequate and sporadic material removal.
3. Never use a crescent wrench, ratchet or pliers to turn the reamer.
4. A dull reamer will cut a smaller hole. Reamers can be sharpened, but should only be done by a professional tool sharpener. Actual life of a reamer before resharpening or replacing averages 50-70 bores.

## Installation/Assembly Steps

1. Be certain all debris has been removed from the valve bores and valve body.
2. Install the new Sonnax PR valve & spring, OEM spring seat and boost valve assembly. See photo on page one for proper alignment.