TCC Apply Valves

4L60 & E Non-PWM, 200-4R

77805-K
1 Valve
1 Teflon® Seal

4L60E PWM & 4L65-E

77805E-K
1 Valve
1 Spring
1 Teflon® Seal

Note: Updated valve and spring in **77805E-K** replace early and late PMW designs.
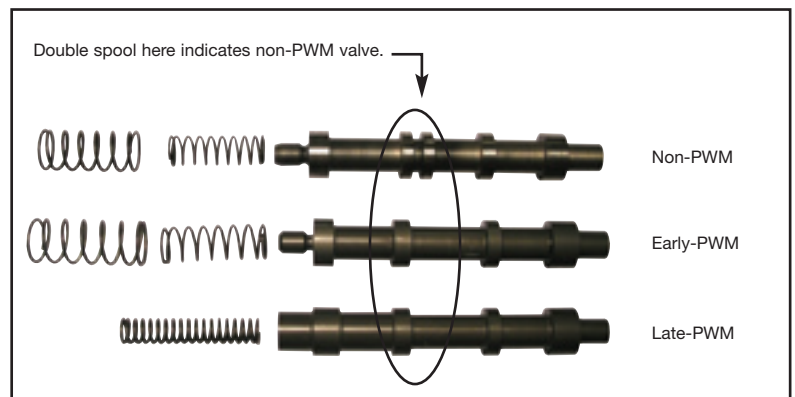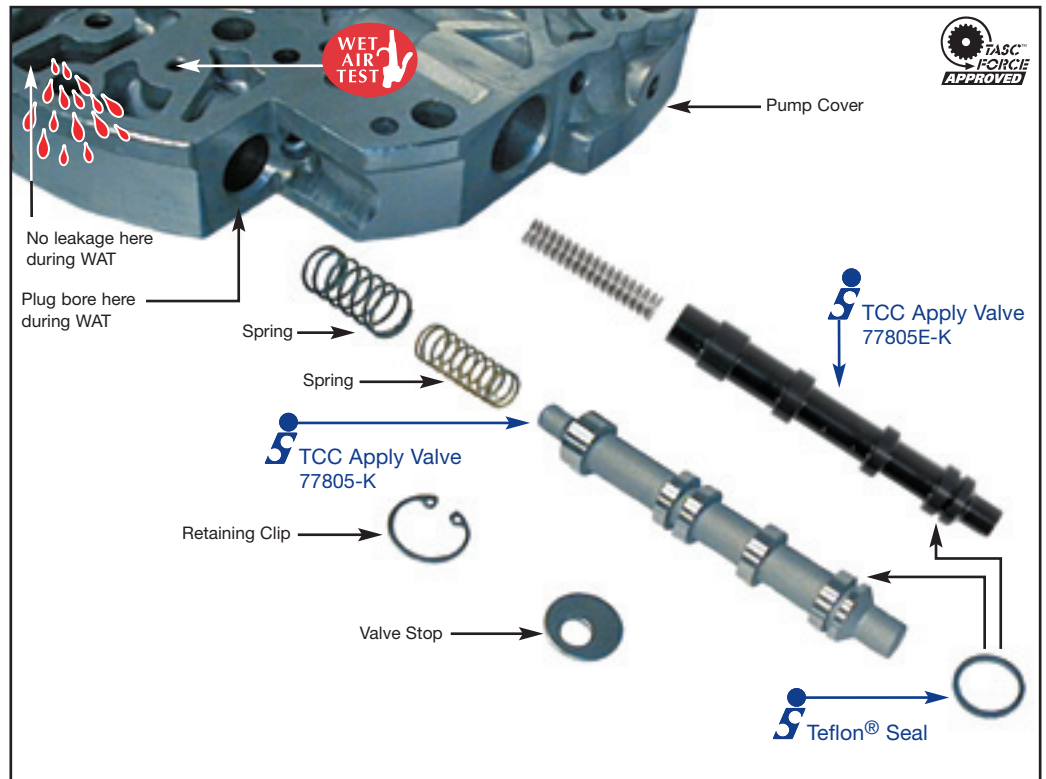
Wet Air Test

To identify worn bore: Plug solenoid bore with thumb. With fluid in feed cavity, pressurize TCC signal. No leakage allowed past end spool.

Note: Upon removing the original valve, lay it next to the Sonnax replacement and verify the spool locations match as indicated at right. Some early PWM pumps used steel TCC valves. Do not use steel and aluminum as the identification for replacement. Mismatching PWM & non-PWM valves will cause rapid converter failure.

Installation Instructions

Warning: A common modification performed by rebuilders is to enlarge the TCC signal orifice in the pump to help ensure the TCC valve strokes completely during apply. Do not perform this modification when using the Sonnax valve: the TCC solenoid may become flooded by the increased oil flow and produce uncontrollable TCC apply.

1. Remove and discard the TCC apply valve.
2. For non-PWM replacement (**77805-K**), reuse the OEM springs.
3. For PWM replacement, discard OEM springs (early) or spring (late). The redesigned Sonnax valve and spring (**77805E-K**), when used together, wil replace both early and late OEM PWM designs.
4. Fit Teflon® seal into groove on the end of the Sonnax replacement valve.
5. Lubricate the valve.
6. Resize the Teflon® seal by carefully inserting the valve backward

WET AIR TEST

No leakage here during WAT

Plug bore here during WAT

Spring

Spring

Retaining Clip

Valve Stop

Pump Cover

TCC Apply Valve 77805E-K

TCC Apply Valve 77805-K

Teflon® Seal

Double spool here indicates non-PWM valve.

Non-PWM

Early-PWM

Late-PWM

into the outer portion of the bore and stroking it numerous times.

7. After resizing the seal, turn the valve around and push the valve into the pump bore, with the Teflon® ring end of the valve closest to the opening.
8. Insert the valve stop.
9. Reinstall the retaining clip, making sure the rounded edge faces the valve stop.

Sonnax
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