

## Chrysler 42RE, 42RH, 46RE, 46RH, 47RE, 47RH, 48RE, A727, A904

### Throttle Valve Kit

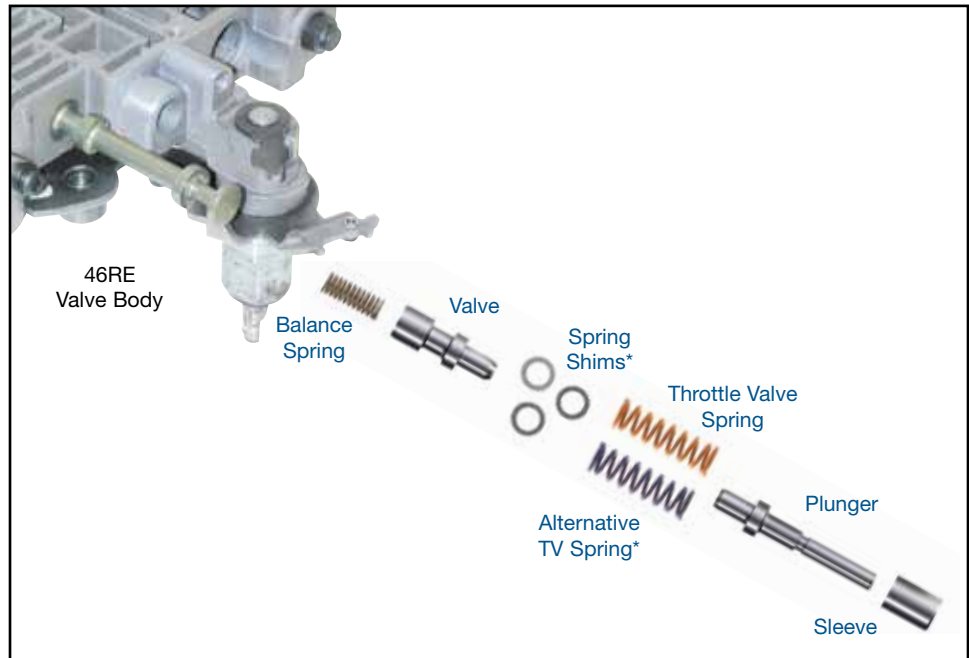
#### Part No.

**22771-03K**

- Balance Spring
- Valve
- Spring Shims (3)\*
- Throttle Valve Spring Orange
- Alternative TV Spring\* Purple
- Plunger
- Sleeve

**NOTE:** Fits all Chrysler RWD models, including '05-later units with motorized linkage.

\*Performance Use Only.



#### 1. Disassembly

- Remove OE throttle valve train. Set aside retainer for reuse; discard other parts.
- Clean valve bore.

#### 2. Determine if Sonnax Balance Spring is Necessary

Inspect bore for excess wear at the two innermost circuits. If (and ONLY if) wear is visually detected, Sonnax balance spring should be used during reassembly.

#### 3. Installation & Assembly

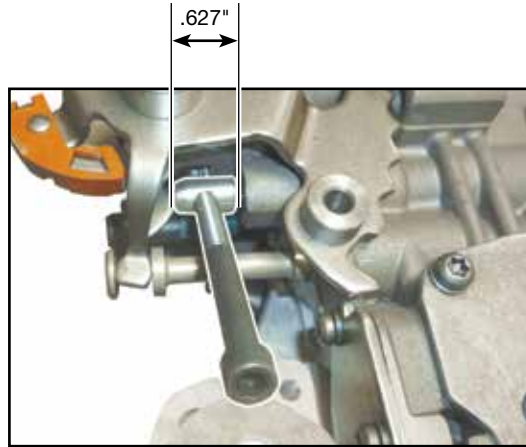
- If excess bore wear is discovered during step "2" above, install Sonnax balance spring. If wear is not visually detected, skip to step "b".
- Install Sonnax throttle valve.
- Install Sonnax throttle valve spring.
- Install Sonnax throttle plunger.
- Install Sonnax sleeve and secure valve train with OE retainer.



**TECH TIP:** Inspect OE throttle valve for etching between spools, which is an indication of a poor ground circuit. Installing an additional cable from transmission case to chassis ground is recommended.

### 4. Adjust TV Stop

Using available Chrysler gauge or equivalent, set stop distance between throttle lever and throttle plunger to **.627"**. To obtain correct distance, throttle valve must be fully bottomed and throttle valve spring fully compressed. With gauge in place, valve train should have no movement.



## Customizing TV Pressure for Performance Applications

Shims can be installed on TV valve stem to customize shift points; see chart below.

	Spring/Shim Selection	Approximate Change to TV Pressure
Higher Upshifts	Use of 3 shims is NOT recommended with Sonnax orange throttle valve spring.	
	Sonnax Orange Throttle Valve Spring + 2 Shims	+ 14 psi
	Sonnax Orange Throttle Valve Spring + 1 Shim	+ 7 psi
Lower Upshifts*	Sonnax Alternative Purple TV Spring + 3 Shims	- 7 psi
	Sonnax Alternative Purple TV Spring + 2 Shims	- 14 psi
	Sonnax Alternative Purple TV Spring + 1 Shim	- 21 psi
	Sonnax Alternative Purple TV Spring ONLY	- 28 psi

\*NOTE: Do NOT use Sonnax balance spring with Sonnax alternative TV spring!