

## Chrysler 32RH, 42RE, 42RH, 46RE, 46RH, 47RE, 47RH, 48RE, A727, A904

### Throttle Valve Kit

#### Part No.

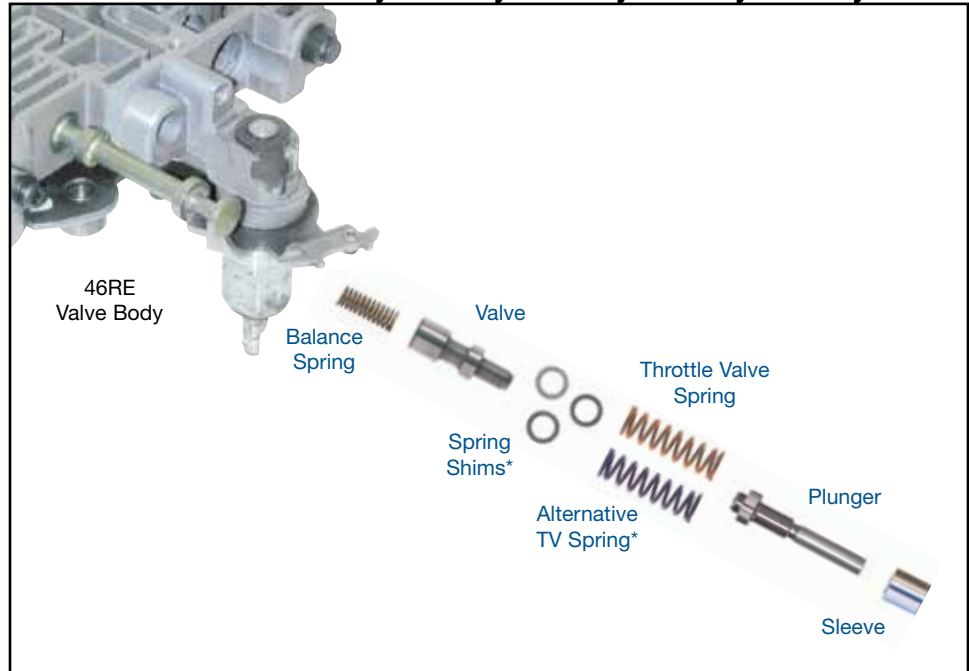
**22771-HDK3**

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



**NOTE:** Kit designed to work in all Chrysler RWD models, including 2005-later units with motorized linkage.

\*Performance Use Only.



#### 1. Disassembly

- Remove OE throttle valve train. Set aside retainer for reuse. Discard other OE 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 an appropriately sized gauge, set stop distance between throttle lever and throttle plunger to **.920"** (Figure 1). 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.



**NOTE:** Do **NOT** use OE gauge C-3763 to set stop distance, because the OE gauge only measures .627". Recommend fashioning simple gauge block to .920" to help set this dimension.

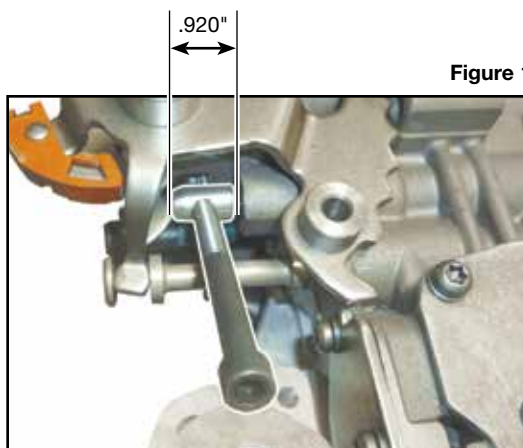


Figure 1

### 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 throttle spring.	
	Sonnax Throttle Spring + 2 Shims	+ 14 psi
	Sonnax Throttle Spring + 1 Shim	+ 7 psi
Lower Upshifts*	Sonnax Alternative TV Spring + 3 Shims	- 7 psi
	Sonnax Alternative TV Spring + 2 Shims	- 14 psi
	Sonnax Alternative TV Spring + 1 Shim	- 21 psi
	Sonnax Alternative TV Spring ONLY	- 28 psi

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