

**COMPLAINT**

SECONDARY COMPLAINTS

**High and uncontrollable line pressure**

- Delayed converter charge • Poor reverse engagement

**CAUSE**

Worn pressure regulator valve bore.

**CORRECTION**

This pressure regulator valve kit includes a solid Teflon® seal ring to separate the balance line circuit from the pump suction and an o-ringed end plug to ensure proper back pressure to the pressure regulator valve.

**Pressure  
Regulator Valve  
Kit**

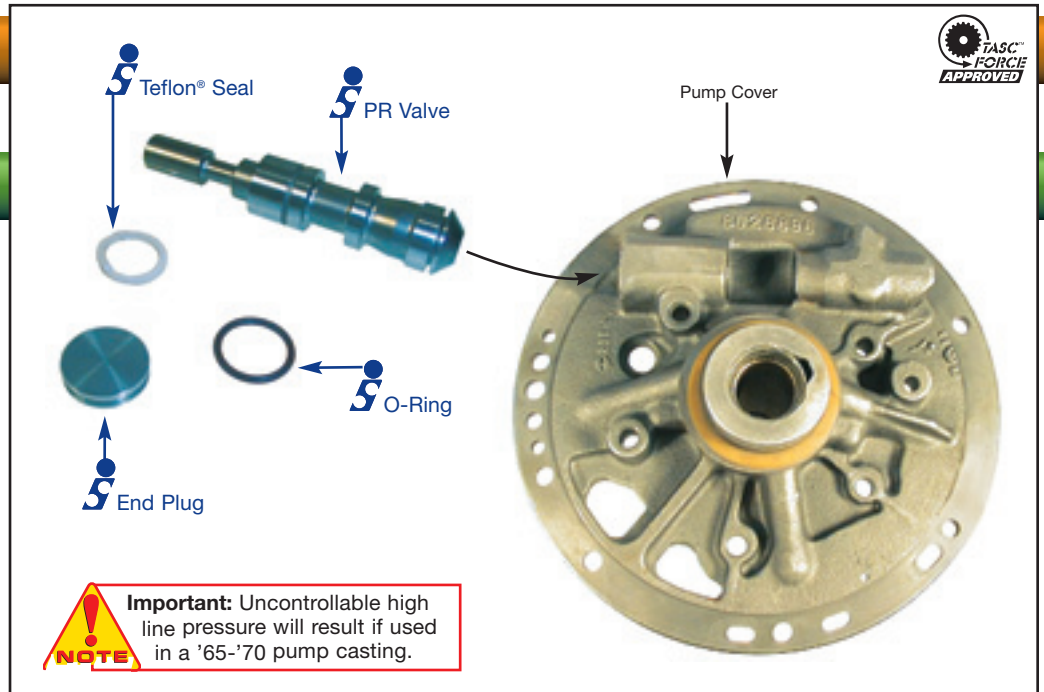
**34910-03K** '71 & later only

- 1 Pressure Regulator Valve
- 2 Teflon® Seals
- 1 End Plug
- 1 O-Ring

Also Available:

**34910-01K** Boost Valve Kit with o-rings

**34910-05K** "Factory" Style Boost Valve Kit without o-rings



**Sonnax Part Summary**

High-mileage vehicles with a THM 400 often experience poor line pressure control due to a worn pressure regulator bore. This will result in high cooler pressure and converter, crankshaft, and/or friction element failure. This bore wear can be verified by testing line pressure and Wet Air Testing the pump. This hardened steel valve continuously oscillates within the cast-iron pump bore, resulting in wear. Balance line pressure is then allowed to leak past the valve and exhaust to the sump. This prevents the pressure regulator valve from moving completely to the lower line pressure position. Sonnax now offers a pressure regulator valve kit **34910-03K** that eliminates these problems.

**Features & Benefits**

- The pressure regulator valve has been modified to incorporate a solid Teflon® seal ring that properly separates the balance line circuit from the pump suction, preventing cross leakage.
- Kit also includes an o-ringed end plug to ensure proper back pressure to the pressure regulator valve.
- This kit eliminates the need to replace the pump casting to ensure pressure control.

**Save** \$75 in pump cover replacement costs