

COMPLAINT

SECONDARY COMPLAINTS

Flare upshifts, low EPC pressure

- TCC slippage, code 741 • Low maximum line pressure result

CAUSE

The OEM relief valve design and inconsistent casting pocket depth prevent proper cracking pressure at both the EPC and TCC relief valve locations.

CORRECTION

Replace the OEM "T" shaped relief valve and spring with the Sonnax checkball and spring kit to ensure proper and consistent seating and relief pressure.

EPC & TCC Relief Valve Kit

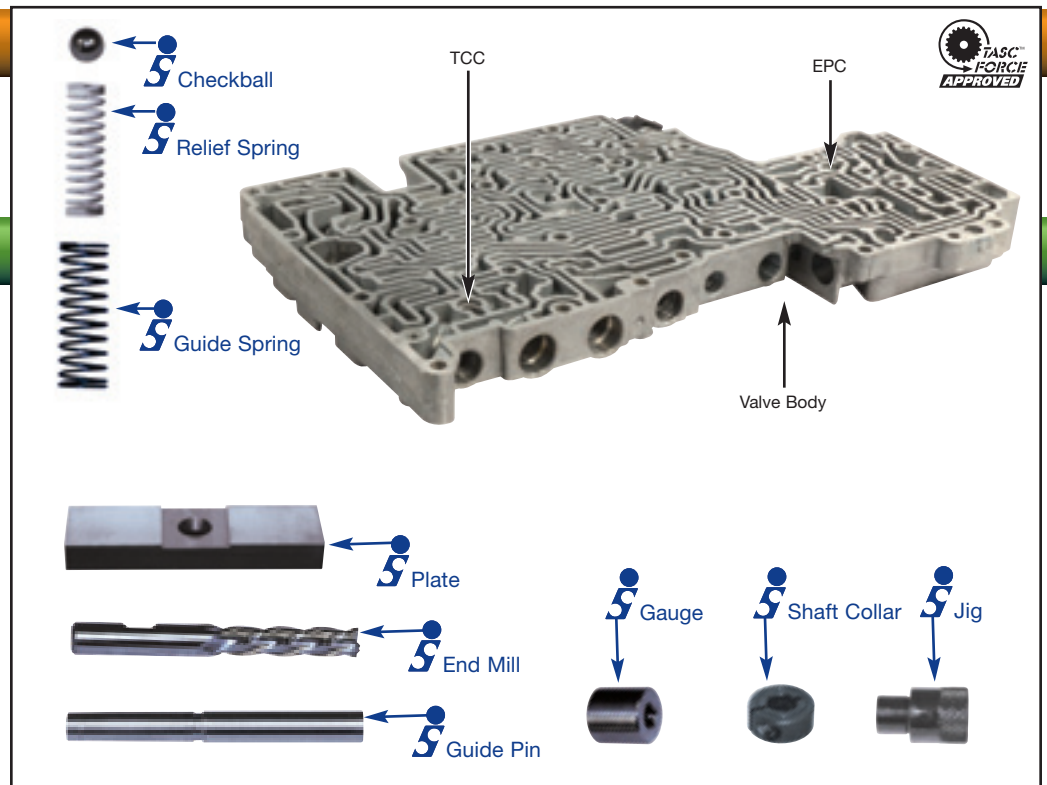
37947-40K

- 1 Relief Spring
- 1 Guide Spring
- 1 Checkball



37947-TL40

- 1 End Mill
- 1 Shaft Collar
- 1 Plate
- 1 Jig
- 1 Guide Pin
- 1 Gauge



Sonnax Part Summary

The OEM relief valve design and inconsistent casting pocket depth prevent proper cracking pressure at both the EPC and TCC relief valve locations. The OEM relief pressures have been tested at between 40-180 psi, while the optimal range should be around 115-120 psi. This inconsistent pressure range can result in high/low EPC and line pressure, shift complaints and various converter complaints. Sonnax has developed a replacement relief valve kit that can be used in either the EPC or TCC relief pocket locations. The kit contains a $\text{\O}0.250$ " steel checkball, which provides more consistent sealing against the separator plate. A replacement relief spring is also included for accurate pressure control. A guide spring is also included to fit securely into the machined casting pocket, which ensures the relief spring stays properly centered, and that pressure exhausts sufficiently. Machining of the casting pocket is required (using a drill press or hand-held drill) to establish an accurate depth for pressure control.

Features & Benefits

- Ensures accurate and consistent pressure relief at both the EPC and TCC circuits.