

COMPLAINT

SECONDARY COMPLAINTS

Harsh, bumpy or flare 1-2/4-5 shifts

- Slipping gears

CAUSE

Wear at the overlap valve bore prevents proper exhaust of the disengaging clutch pressure, altering the precise timing required in the clutch-to-clutch shift transition.

CORRECTION

The improved Sonnax overlap valve kit restores hydraulic sealing and valve timing when installed in a refurbished bore.

1-2/4-5 Overlap Valve Kit

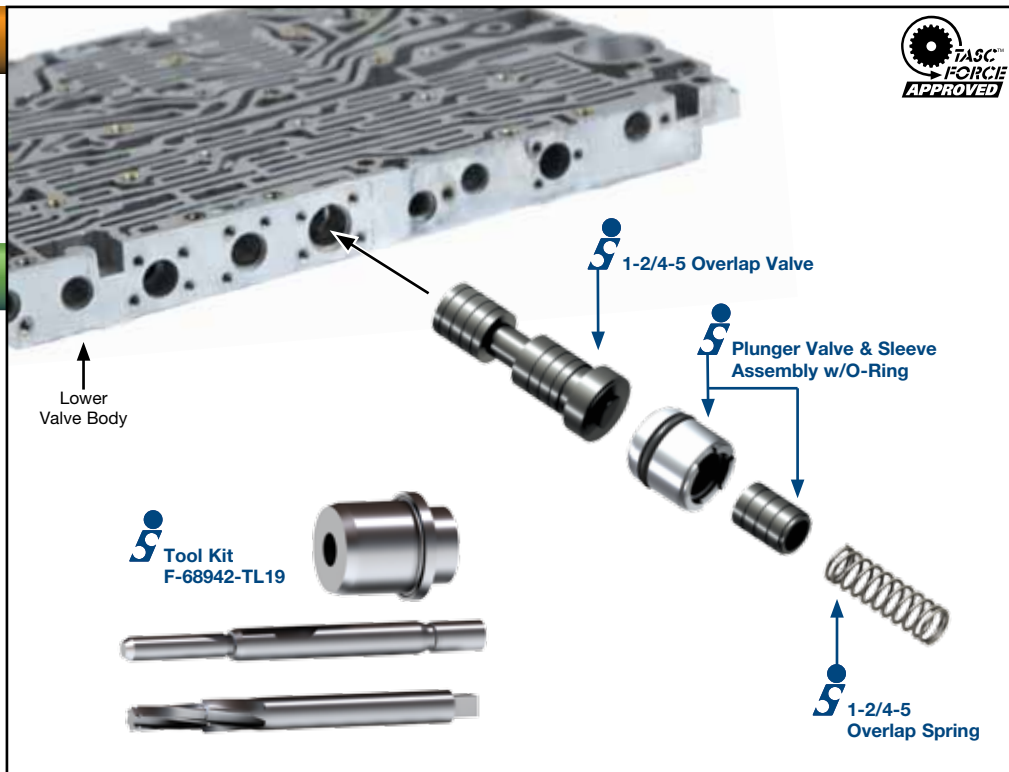
68942-19K

- 1 Plunger Valve & Sleeve Assembly
- 1 Overlap Valve
- 1 Overlap Spring
- 1 O-Ring



F-68942-TL19

- 1 Reamer
- 1 Reamer Jig
- 1 Guide Pin



Sonnax Part Summary

The Mercedes 722.6 transmission uses clutch-to-clutch transitioning during shifts, so timing is very critical to prevent shift complaints like flares or bind-ups. The overlap valves, controlled by EPC (modulated pressure) and shift valve pressure, are used to gradually reduce the pressure to the disengaging clutch. Bore wear at the overlap valve or the plunger valve sleeve can prevent proper clutch exhaust and disrupt the critical clutch-to-clutch timing.

Features & Benefits

- The oversized hard-coat anodized 1-2/4-5 overlap valve has slightly longer critical spool diameters and optimized annular groove placement for better hydraulic sealing and to prevent future bore wear.
- The wear-resistant plunger sleeve has an added o-ring to provide additional positive sealing in the bore.
- The replacement spring and valve ratios maintain OEM shift pressures for proper timing and function.

You need this if...

A Wet Air or Vacuum Test in the location shown, results in leakage. A Vacuum Test must hold a minimum of 18". If you cannot effectively perform a WAT or Vacuum test, visually inspect the inboard overlap bore.

