

## COMPLAINT

SECONDARY COMPLAINTS

## Wrong gear starts, solenoid codes; clutch/band failure

• Harsh shifts from high pressure • 2nd gear starts • No 4th gear • Soft shift due to poor line rise

## CAUSE

Actuator feed limit bore wear results in low pressure at shift and EPC solenoids.

## CORRECTION

This wear-resistant sleeve and hard-anodized valve refurbish the bore to prevent AFL leakage while providing greater durability and thermal expansion properties.

## AFL Valve & Sleeve Kit

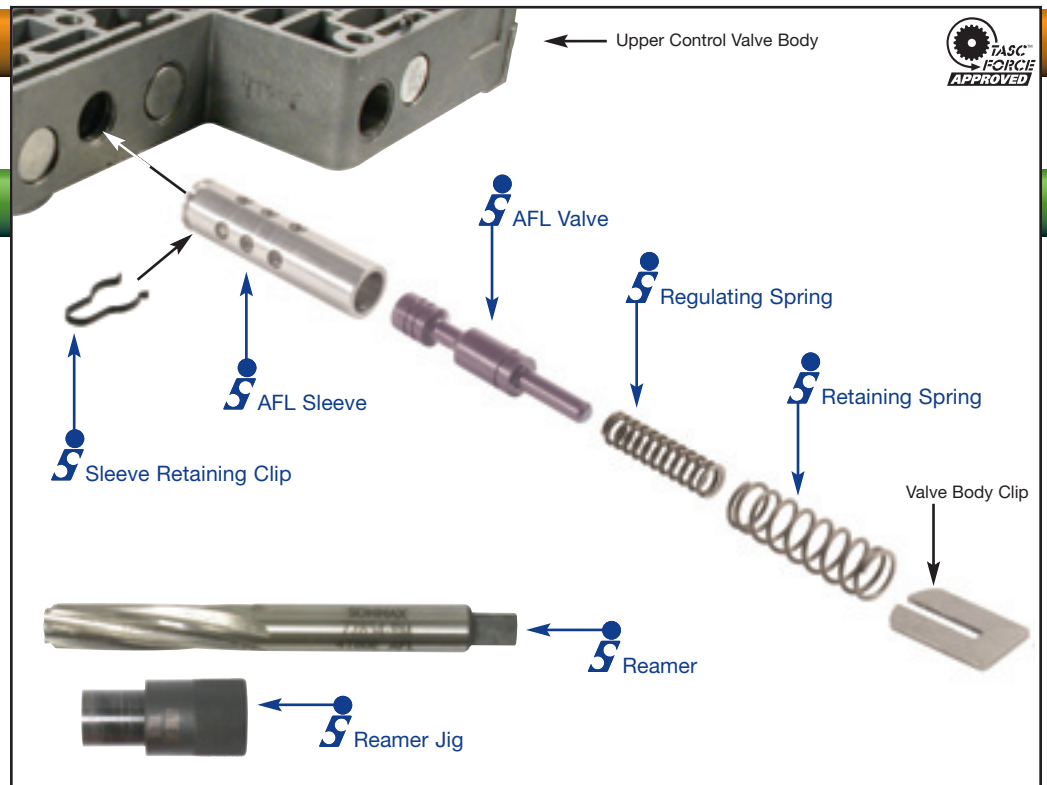
### 72854-01K

- 1 AFL Sleeve
- 1 AFL Valve
- 1 Regulating Spring
- 1 Retaining Spring
- 1 Sleeve Retaining Clip



### 72854-TL

- 1 Reamer
- 1 Reamer Jig



### Sonnax Part Summary

The OEM actuator feed limit (AFL) valve routes regulated line pressure to the pressure control and shift solenoids. AFL pressure feeds the pressure control solenoid, which regulates the outgoing torque signal pressure. AFL pressure is directed to the shift solenoids to oppose spring force and stroke the shift valves. Constant oscillation of this hardened steel valve causes the cast aluminum bore to wear, reducing the AFL oil pressure, which can cause solenoid and ratio codes, clutch/band failure and harsh shifts. Bore wear can also cause the valve to stick in the exhaust position, resulting in 2nd gear starts and low line pressure. The Sonnax kit **72854-01K** re-establishes the hydraulic integrity of the circuit by eliminating and preventing wear in the AFL circuit.

### Features & Benefits

- Kit includes a highly wear-resistant aluminum sleeve to provide more durability.
- Hard-coat anodized valve reduces wear and provides better leakage control during thermal expansion.
- Valve spools have been lengthened to provide better stability and prevent leakage.
- Annular grooves have been added to center the valve and prevent wear from side loading.
- A regulating spring has also been added to fit into the lengthened valve and set the correct limiting pressure.

**Note:** Sonnax reamer tool kit **72854-TL** must be used to oversize the existing bore.