

COMPLAINT

SECONDARY COMPLAINTS

2-3 shift flare, low line pressure and pump volume

• Severe overheating • Converter burn-up • Spool valve and spring bore hang-up concerns

CAUSE

The pump is unable to produce sufficient volume because the spool valve has stroked to supply decrease oil to the pump slide.

CORRECTION

The Sonnax spool valve has a non-restrictive center hole along with an improved spring to allow more oil to flow before the spool valve moves to open decrease oil to the pump slide. The vane expander increases pump volume by decreasing internal oil leakage.

Pump Rebuild Kit

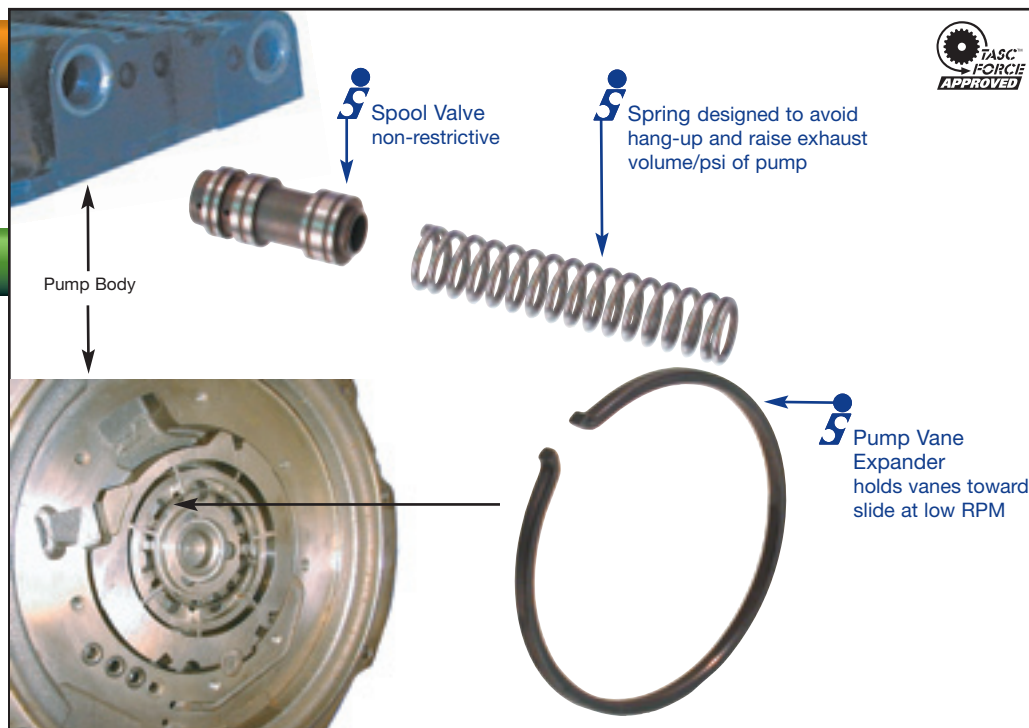
71912-01K

1 Spool Valve
1 Spool Valve Spring
1 Pump Vane Expander

Note: Fits 2 pan, 4 solenoid style units with vane-style pumps.

71912-02

1 Pump Vane Expander



Sonnax Part Summary

Common problems in the G4A-EL/HL/4EAT transmission are low line pressure, low pump volume, 2-3 shift flare, torque converter burn-up and pump spool valve hang-up. Frequently these problems can be traced to the inability of the spool valve to control pump output, causing the pressure regulator valve to lower converter charge, resulting in converter burn-up. The weak OEN vane expander does not keep the pump vanes in position. Sonnax pump rebuild kit 71912-01K addresses these problems.

Features & Benefits

- Kit includes a replacement spool valve with a spring guide to prevent the spring (included in kit) from hanging the valve.
- Specially designed valve I.D. removes any restrictions.
- The replacement vane expander 71912-02 is twice as wide as the original. This heavier vane expander dramatically decreases internal leakage by holding the pump vanes firmly against the cam ring but does not preload the vanes to the point of creating premature vane wear.
- The expander's flat design evenly supports the vanes and guide ring.