Distributor Data Sheet

4L60-E

PART NUMBERS 77898E-3K, -6K

COMPLAINT

SECONDARY COMPLAINT

Insufficient line rise, 3-4 clutch failure

- Poor shift quality

CAUSE

A worn boost sleeve can allow torque signal and reverse oil cross leakage or leakage to sump.

CORRECTION

These closely toleranced valve and sleeve kits restore hydraulic integrity and prevent leakage. Kits are available in the .470" stock replacement or .490" increased boost ratio sizes.

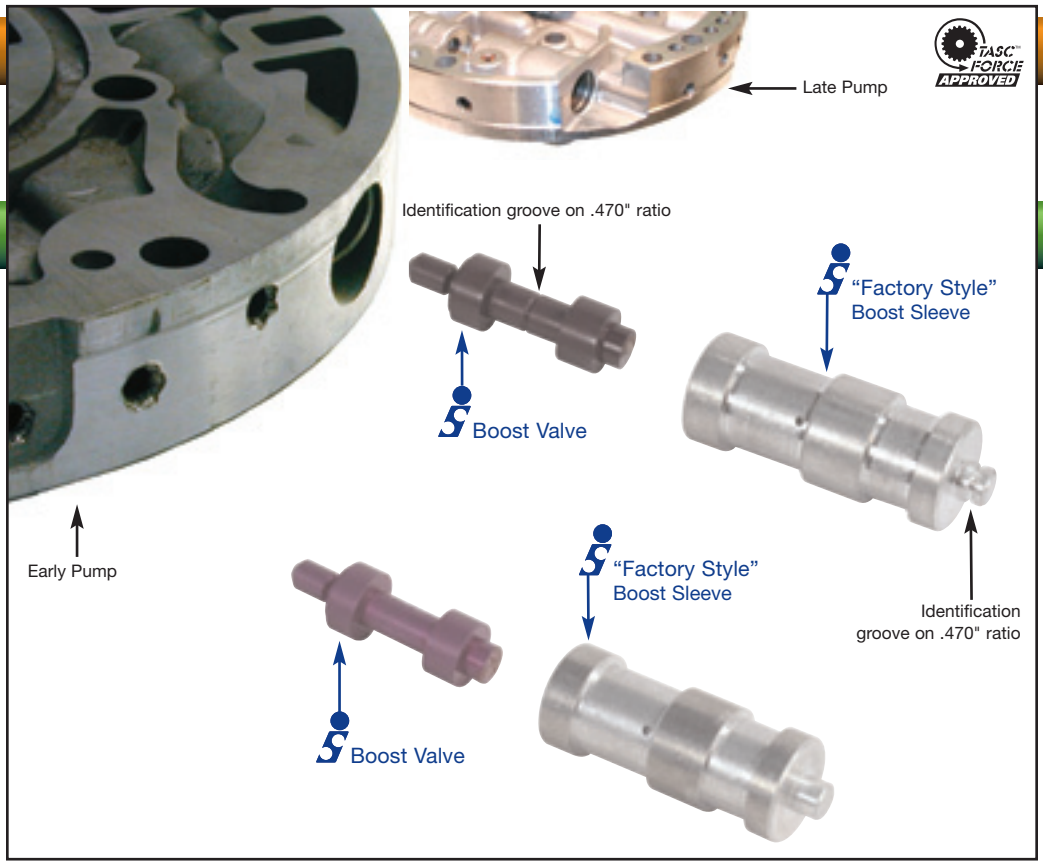
"Factory Style" Reverse Boost Valve & Sleeve Kits

77898E-3K Oversized
.490" EPC spool diameter for early pumps

77898E-6K OEM Ratio
.470" EPC spool diameter for early pumps

Each includes the following
1 Boost Valve
1 Boost Sleeve

Note: U.S. Patent No. 6,619,323



Sonnax Part Summary

Vehicles with a 4L60-E transmission frequently have poor line rise, which can result in 3-4 clutch, 2-4 band failure or poor shift quality. The duty cycle of the EPC solenoid causes the boost sleeve to wear quickly. Oil entering the torque signal orifice leaks past the boost valve and exhausts at the reverse orifice, resulting in poor line rise. Reverse oil can exhaust both to the sump and back through the torque signal orifice. Sonnax offers two "factory style" replacement boost valve kits that will prevent the above problems: **77898E-6K** with an OEM boost ratio (.470" EPC spool diameter), and **77898E-3K** with increased spool diameters (.490" EPC spool diameter).

PUMP DESIGN		OEM		SONNAX WITH O-RINGS		SONNAX "FACTORY" STYLE	
		VALVE	SLEEVE	VALVE	SLEEVE	VALVE	SLEEVE
1.907" LONG SLEEVE	EARLY DESIGN	1 BAND	NO END GROOVE				
		.421" EPC					
	EARLY DESIGN	2 BANDS	1 END GROOVE	1 GROOVE	1 GROOVE NUB END	1 GROOVE	1 GROOVE NUB END
		.470" EPC		.470" EPC 77898E-4K		.470" EPC 77898E-6K	
	EARLY DESIGN	INCREASED RATIO VERSION OEM REPLACEMENT .470"		NO GROOVE	NO GROOVE	NO GROOVE	NO GROOVE
				.490" EPC 77898E-K		.490" EPC 77898E-3K	
1.810" SHORT SLEEVE	LATE DESIGN	3 BANDS	NO END GROOVE				
		.421" EPC					
	LATE DESIGN	4 BANDS	1 END GROOVE				
		.470" EPC					
	LATE DESIGN	INCREASED RATIO VERSION OEM REPLACEMENT .470"		2 GROOVES	2 GROOVES ON PR END		
				.490" EPC 77898E-7K			

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