PART NUMBERS 77898E-K, -4K, 7K

Insufficient line rise, 3-4 clutch failure

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

Sonnax valve and sleeve kits restore hydraulic integrity and prevent leakage. Kits are available in both stock replacement and increased boost ratio sizes.

Reverse Boost Valve & Sleeve Kits

77898E-K

Oversized .490" EPC spool diameter for early pumps

77898E-4K

OEM Ratio

.470" EPC spool diameter for early pumps

NEW PRODUCT 77898E-7K Oversized

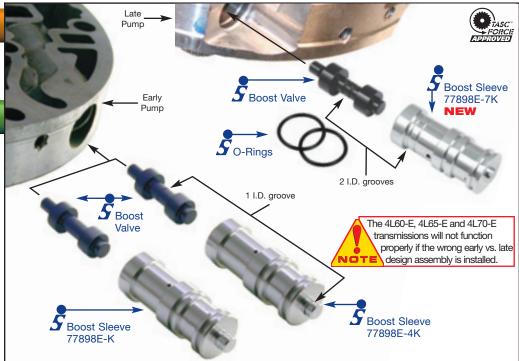
.490" EPC spool diameter for late pumps

Each includes the following

- 1 Boost Valve
- 1 Boost Sleeve
- 2 O-Rings

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

• Poor shift quality



Sonnax Part Summary

Vehicles with a 4L60-E, 4L65-E or 4L70-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. The outside diameter of the boost sleeve also allows some leakage through the pump body, which decreases pressure rise. Sonnax has developed three o-ringed version reverse boost valve and sleeve kits, 77898E-4K for OEM ratio (.470" EPC spool diameter) early pumps; 77898E-K for oversized ratio (.490" EPC spool diameter) early pumps; and 77898E-7K for oversized ratio (.490" EPC spool diameter) late pumps.

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		.470" EPC	
				77898E-4K		77898E-6K	
1.907"	EARLY DESIGN	INCREASED RATIO VERSION		NO GROOVE	NO GROOVE	NO GROOVE	NO GROOVE
				.490" EPC		.490" EPC	
		OEM REPLACEMENT .470"		77898E-K		77898E-3K	
EEVE	LATE Design	3 BANDS	NO END GROOVE				
		.421" EPC					
ORT SI	LATE Design	4 BANDS	1 END GROOVE				
		.470" EPC					
1.810" SHORT SLEEVE	LATE Design	INCREASED RATIO VERSION OEM REPLACEMENT .470"		2 GROOVES	2 GROOVES ON PR END		
				.490" EPC			
				77898E-7K			

