Instruction Data Sheet

440-T4, 4T60-E

PART NUMBERS 84754-12K, 84754-14K, 84754-24K, 84754-17K, 84754-19K & 84754-25K

Modulated Line Boost Valve & Reverse Boost Valve Kits

Modulated Line Boost Valve Kits

84754-12K Low Ratio

84754-17K High Ratio

Each kit includes the following

1 Modulated Line Boost Valve
1 Modulated Line Boost Sleeve
1 Modulated Line Boost Spring

Reverse Boost Valve Kits

84754-14K Low Ratio

84754-19K High Ratio

Each kit includes the following

1 Reverse Boost Valve
1 Reverse Boost Sleeve
1 Reverse Boost Spring

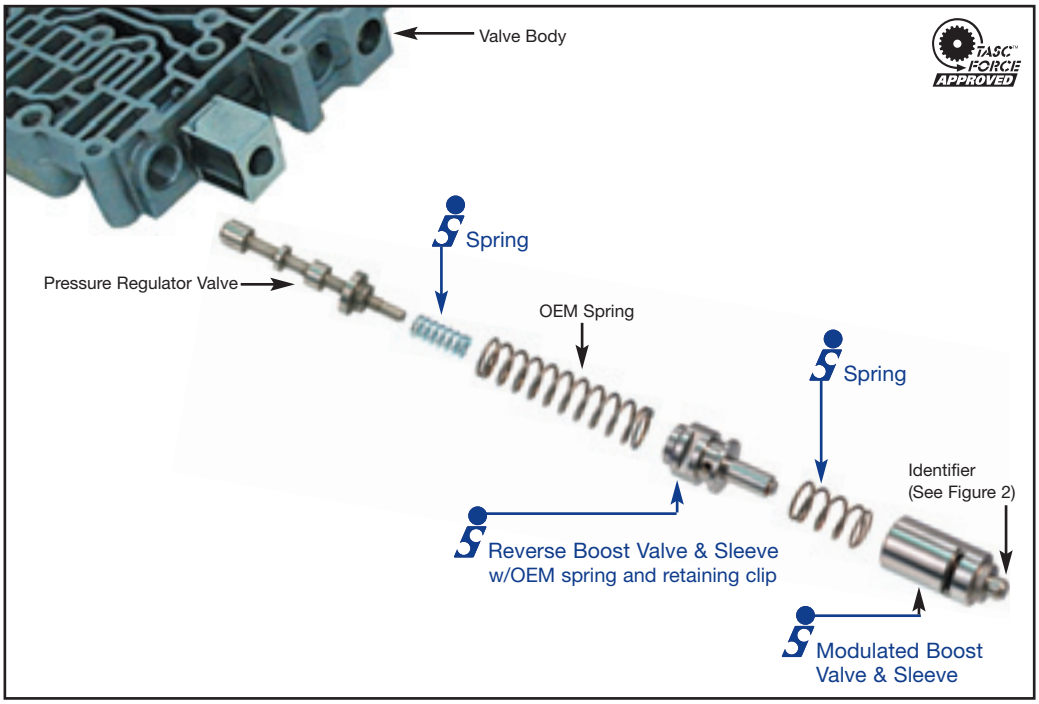
Reverse & Modulated Line Boost Valve Kits

84754-24K Low Ratio

84754-25K High Ratio

Each kit includes the following

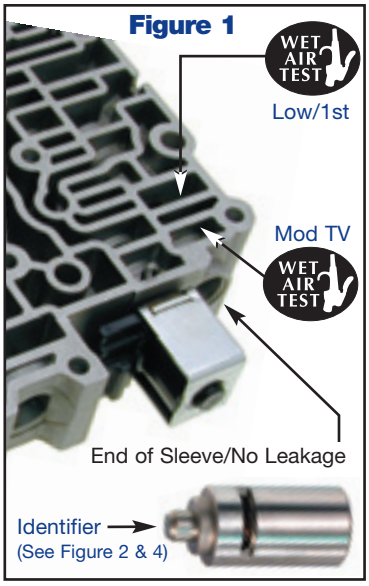
1 Modulated Line Boost Valve
1 Modulated Line Boost Sleeve
1 Modulated Line Boost Spring
1 Reverse Boost Valve
1 Reverse Boost Sleeve
1 Reverse Boost Spring



Modulated Line Boost Instructions

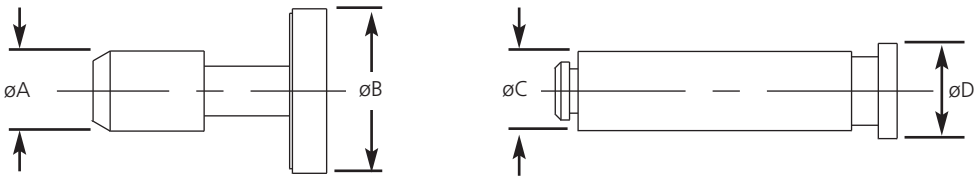
1. Perform a Wet Air Test on the modulated line boost valve assembly (see figure 1) for leakage by placing a small amount of oil into the modulated TV Circuit. Follow with low air pressure. There should be little or no air/oil leakage through the end of the sleeve or into the low-1st orifice.
2. To replace the modulated line boost valve assembly, remove the retaining clip and remove the OEM boost sleeve, boost valve, and spring (#305) from the valve body. Discard all three pieces. Install the Sonnax boost sleeve, boost valve, and replacement spring. Re-install the retaining clip.

Figure 1



Identifier Information

MTV BOOST VALVE OEM DESIGN	REVERSE BOOST VALVE OEM DESIGN



Low Boost Ratio			*High Boost Ratio*		
øA	.276"	Sonnax Kit No. **84754-12K**	**øA**	.199"	Sonnax Kit No. **84754-17K**
øB	.567"		**øB**	.567"	
øC	.273"	Sonnax Kit No. **84754-14K**	**øC**	.293"	Sonnax Kit No. **84754-19K**
øD	.328"		**øD**	.348"	

Figure 2

Note: MTV & reverse boost assemblies can be swapped to achieve varied boost rates.

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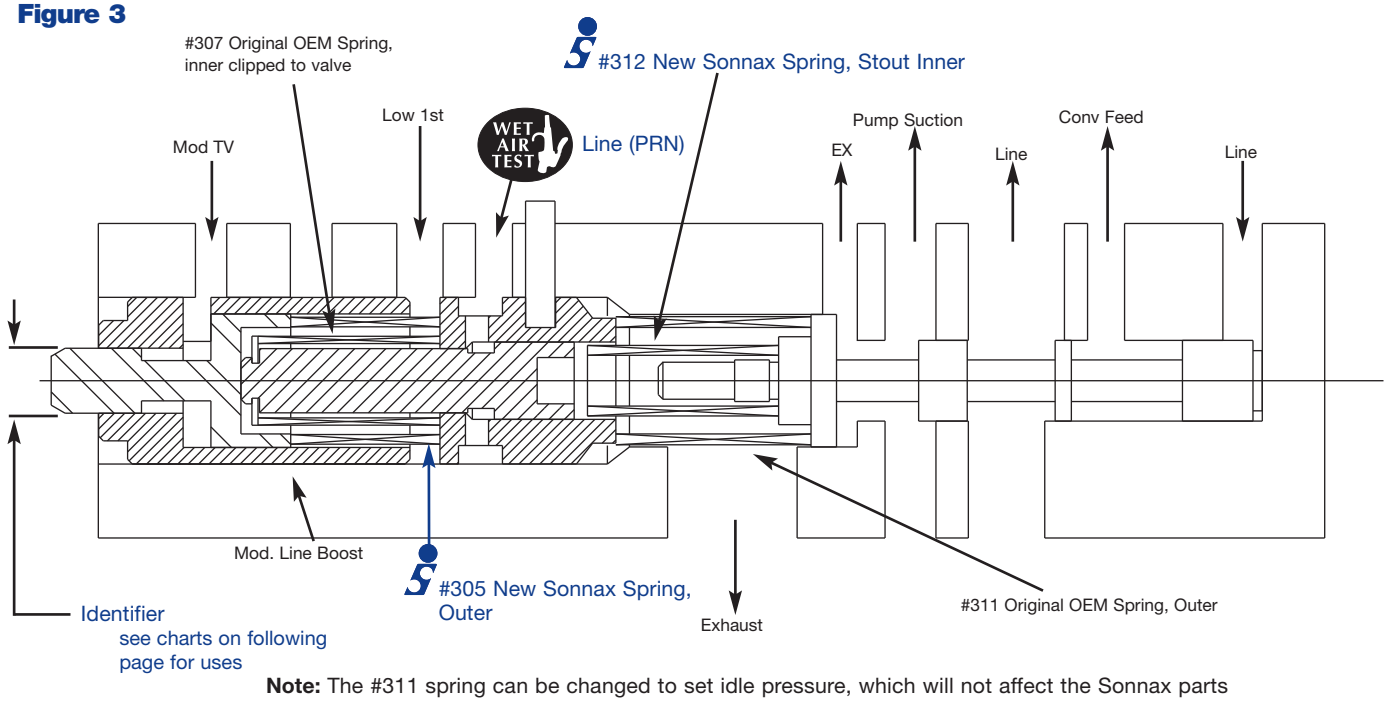
Reverse Boost Instructions

1. Wet Air Test the reverse boost valve assembly (see figure 3) for leakage by placing a small amount of oil into the line (PRN) circuit. Follow with low air pressure. There should be little or no air/oil leakage through the low-1st or exhaust orifices.
2. To replace the reverse boost valve assembly, remove the retaining clip and the modulated line boost valve assembly from the valve body and set aside. Remove the grooved retaining pin and the reverse boost valve assembly from the valve body. Discard the OEM reverse boost sleeve, reverse boost valve and spring (#312) from the valve body. Keep the OEM spring (#311), reverse boost valve retaining clip, and spring (#307). Place the Sonnax replacement reverse boost valve into the sleeve. Place the OEM spring (#307) over the reverse boost valve stem and return the original retaining clip to the groove. Place the Sonnax plain spring over the stem of the pressure regulator valve. Push the reverse boost valve assembly into the valve body bore just far enough to re-install the grooved retaining pin. Reinstall the OEM boost valve assembly.

Note: The springs (#305 & #312) supplied are designed specifically for the Sonnax boost valves. Do not use aftermarket boost springs in these locations. The improved spool contact insures sealing ability, but will cause a no line rise if used with incorrect springs.

Figure 3



Note: The #311 spring can be changed to set idle pressure, which will not affect the Sonnax parts

Figure 4

Sonnax No.	Stem	Description	Application
84754-12K	ØA= .276"	Mod. Line Boost (Low Ratio)	Common in 3.1 Ltr. Engines, 3.4, 4.1, 4.5
84754-14K	ØC= .273"	Reverse Boost (Low Ratio)	Paired with -12K
84754-17K	ØA= .199"	Mod. Line Boost (High Ratio)	Common to 2.3 Quad., 3.8
84754-19K	ØC= .293"	Reverse Boost (High Ratio)	Paired with -17K