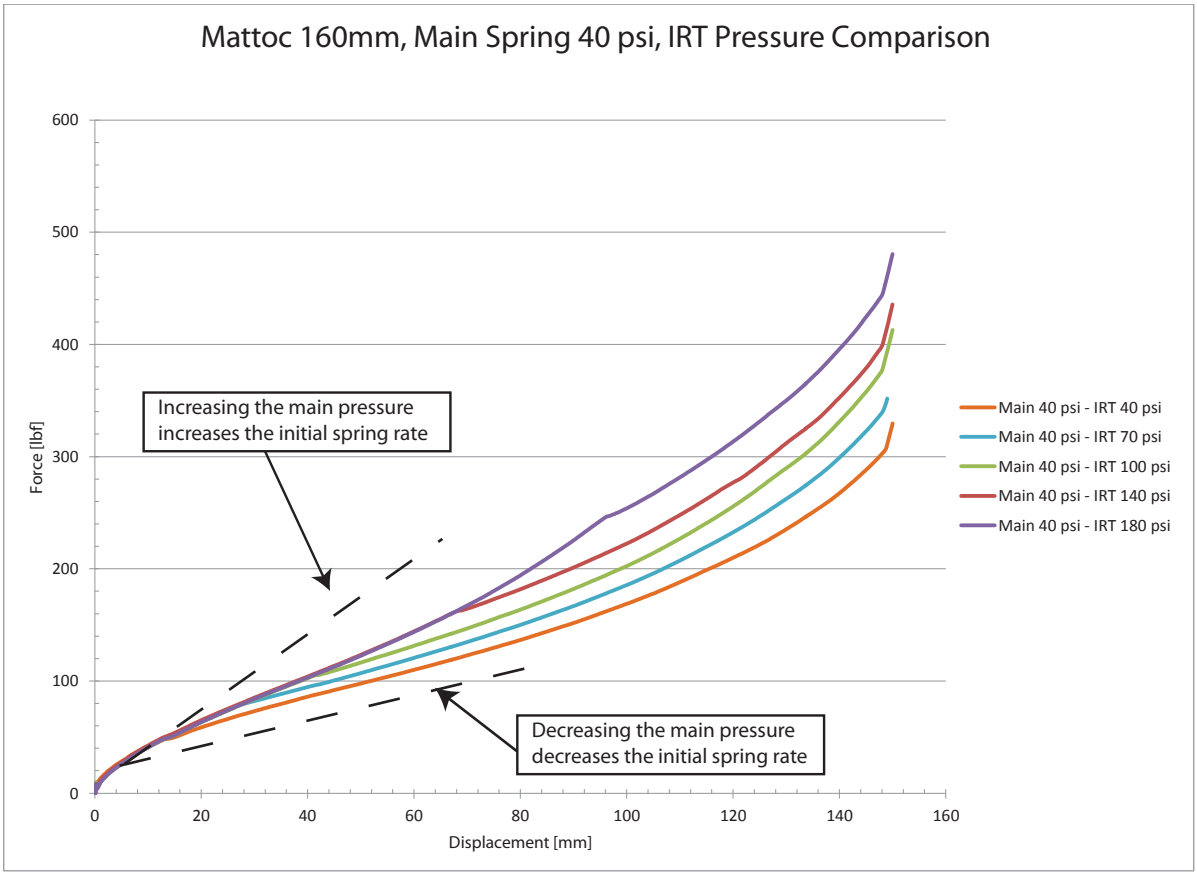
MATTOC IRT

MATTOC INFINITE RATE TUNE (IRT) FUNCTIONAL DESCRIPTION

Infinite Rate Tune (IRT) allows for advanced spring tuning by independently modifying air pressures in the beginning and end stroke. IRT technology creates a secondary air spring that effects only the middle-to-end stroke of the fork. This allows the main air spring to be set to lower pressures for improved small bump sensitivity while maintaining mid-stroke support and moderate to aggressive end-stroke ramp-up.



MATTOC INFINITE RATE TUNE (IRT) INSTALLATION & SET-UP GUIDE

1. Remove valve cap on bottom of the fork and attach shock-pump; note your current spring pressure. Depressurize air spring, remove shock pump. Fully depress the air valve core with 3mm hex to fully evacuate any remaining pressure. **NOTE**: use rag to catch any lubrication oil in air valve.
2. Remove air spring top-cap from leg (at the crown) using 24mm socket.
3. Lubricate IRT piston seal with M-prep grease.
4. Insert IRT assembly into the leg. Use 24mm socket, torque to 6,8-9,0 N-m [60-80 in-lb]. **IMPORTANT**: For correct function pressurize IRT before main air spring. Attach shock pump to IRT, pressurize IRT to recommended air pressure in chart.
5. Attach shock pump to main air spring , pressurize to recommended air pressure in chart.
7. IRT air pressure may be modified to desired spring characteristics. However, IRT should be pressurized a minimum of 10psi greater than the main air spring to ensure correct function.

Rider Weight		Spring Pressure, psi [Bar]							
lbs	Kg	140mm		150mm		160mm		170mm	
		Main	IRT	Main	IRT	Main	IRT	Main	IRT
>220	>100	102 [7.0]	142 [9.8]	92 [6.3]	132 [9.1]	84 [5.8]	124 [8.5]	76 [5.2]	116 [7.3]
200-220	92-100	94 [6.5]	134 [9.2]	84 [5.8]	124 [8.5]	76 [5.2]	116 [7.3]	69 [4.8]	109 [7.5]
170-199	77-91	80 [5.5]	120 [8.3]	72 [5.0]	112 [7.7]	65 [4.5]	105 [8.0]	58 [4.0]	98 [6.8]
140-169	64-76	68 [4.7]	108 [7.4]	60 [4.1]	100 [7.6]	53 [3.7]	93 [6.4]	48 [3.3]	88 [6.0]
120-139	54-63	54 [3.7]	94 [6.5]	48 [3.3]	88 [6.0]	42 [2.9]	82 [5.6]	37 [2.6]	77 [5.3]

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