

Suspension Analyzer v2.4 B  
Susp: Superlite Apex-Optimize  
Calculated Results

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Performance Trends (C) 2016

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Dynamics: No Dive: 0 Roll: 0 Steer: 0

Location	Type	Lt Out (X)	Lt Ht(Y)	Lt Dpth(Z)	Rt Out (X)	Rt Ht(Y)	Rt Dpth(Z)
Upper Ball Joint, in	Input (clc)	26.625	19.1875	.563	27.094	19.1875	.563
Upper Frame Pivot, Front, in	Input	18.219	19.1875	-4.313	18.438	19.1875	-4.313
Upper Frame Pivot, Rear, in	Input	18.219	19.1875	5.25	18.438	19.1875	5.25
Lower Ball Joint, in	Input (clc)	28.781	6.5625	-.375	28.781	6.5625	-.375
Lower Frame Pivot, Front, in	Input	12.688	6.5	-4.969	12.688	6.5	-4.969
Lower Frame Pivot, Rear, in	Input	12.625	6.5	8.625	12.625	6.5	8.625
Tie Rod on Rack, in	Input	13.875	10.1875	-7.625	13.875	10.1875	-7.625
Tie Rod on Spindle, in	Input	29.313	10.5	-5.375	29.313	10.5	-5.375
Spring Mount on Frame	Input	18.625	19.1875	.40625	18.625	19.1875	.40625
Spring Mount on Lower Arm, in, in	Input	24.844	9.4375	.219	24.844	9.4375	.219
Spec./Calculation	Type	Lt Static	Lt Dyn.	Lt Change	Rt Static	Rt Dyn.	Rt Change
Roll Bar on Arms, in	Input	24	9	-7.5	24	9	-7.5
Spring Length, in	Output	11.57			11.57		
Spring Angle from Front	Output	32.53			32.53		
Spring Angle from Side	Output	1.10			1.10		
Spring Rate/Wheel Rate	Input (clc)	455	247.4		455	247.3	
Mtn.Ratio Sprng/Shck/RBar	Output	.737		.694	.737		.693
Ride Height, in	Input	6			6		
Track, in	Input	31.00			31.00		
Tire Circumference, in	Input (clc)	80.1			80.1		
Tread Width, in	Input (clc)	10.8			10.8		
Camber, deg	Input	0			1.3		
Caster, deg	Output	4.25			4.25		
Caster Trail, in	Output	.86			.86		
Toe In, deg	Output	.00			.13		
Toe In, in	Input	.00			.03		
Ideal Ackrmn Toe In, deg	Output	.00			.00		
Ackrmn Error, deg	Output	.00			.13		
King Pin Angle, deg	Output	9.69			7.61		
Scrub Radius, in	Output	1.10			1.34		
Spindle Angle, deg	Output	9.69			8.91		
Instant Center Height, in	Output	19.19			19.19		
Instant Center Left, in	Output	-3283.87			-3283.87		
Roll Center Height, in	Output	-.18					
Roll Center Right	Output	.00					
Roll Stiffness, ft-lbs/deg	Output	2360.7					
Anti Dive, %	Output	.0			.0		
Upper Arm Len True/Frnt/Rr, in	Output	8.41	9.72	9.62	8.66	9.93	9.84
Lower Arm Len True/Frnt/Rr, in	Output	16.11	16.74	18.49	16.11	16.74	18.49
Spindle Length, in	Output	12.84			12.77		
Tie Rod/Steering Arm Length, in	Output	15.60	5.40		15.60	5.37	
Front View Swing Arm Length, in	Output	3252.9			3252.9		
Side View Swing Arm Length, in	Output	701896.2			701896.2		
Total Roll Stiffness, ft-lbs/deg	Output	2955.4			HEAVY Understeer		
Front Roll Couple/FLLD, %	Output	79.88			68.32		
Rear Roll Couple/RLLD, %	Output	20.12			31.68		
Roll Axis to CG Moment Arm, in	Output	15.42					
Level Ground Roll Rate, deg/G	Output	1.29					
Front Natural Freq, cps	Output	2.00			2.00		
Rear Natural Freq, cps	Output	1.44			1.44		

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