

FOURLINK - Version 4.0
Racing Systems Analysis - www.QUARTERjr.com

File: exp.4LB

Note:

General Data

Estimated 60 ft Time - sec	1.10
Maximum Acceleration - g's	2.34

Tire Rollout - inches	104.0

Static Weight Data - lbs %

Front Weight	979	45.0
Rear Weight	1196	55.0

Total Weight	2175	100.0

Rear Suspension Data

Shock Mount Location - inches	-5.00
Rear Spring Rate - lbs/inch	100

Shock Units:	lbs per in/sec
Compression (Bump) Rate	200
Extension (Rebound) Rate	400

Wheelie Bar Length - inches	65.0

Center of Gravity Data

Wheelbase - inches	102.0
Horizontal CG - inches	45.9

Vertical CG - inches	17.0
Front Strut Lift - inches	2.5
Front Tire Lift - inches	3.0

Weight of Rear Axle Assembly	250

Four Link Geometry Data - Hole Code 1132

Link Bar	Axle End		Chassis End		Length	Angle	Forces and Components		
-----	x-in	y-in	x-in	y-in	inches	degrees	lbs	Horiz	Vertical
Upper	0.000	19.250	18.500	12.000	19.87	-21.4	-4784	-4532	1532
Lower	0.000	8.000	18.500	5.750	18.64	-6.9	9058	9037	-612
							Totals	4505	920

Dynamic Weight Transfer

Front Weight - lbs	0
Rear Weight - lbs	2076
Wheelie Bar Force - lbs	99
Shock Separation - inches	-0.3
Shock Damping Ratio	6.33

Instant Center Parameters

Horizontal IC - inches	41.6
Vertical IC - inches	2.9

Percent Anti-Squat - %	93
Initial Rear Tire Hit - lbs	444

Dynamic Chassis Analysis - Hole Code 1132

Time	Separation		Forces - lbs			Rear	Front	Wheelie
sec	in	in/sec	Spring	Shock	Mass	Tires	Tires	Bars
0.00	0.00	0.0	845	0	0	1196	979	0
0.05	0.01	0.5	842	-368	21	1665	531	0
0.10	0.04	0.7	836	-584	18	2121	72	0
0.15	0.08	0.5	829	-392	-20	2104	51	0
0.20	0.09	0.2	826	-154	-25	2132	18	0
0.25	0.09	-0.1	826	27	-32	2102	0	41
0.30	0.08	-0.3	828	115	0	2076	0	99
0.35	0.07	-0.3	831	117	0	2077	0	99
0.40	0.05	-0.3	834	116	0	2077	0	99
0.45	0.04	-0.3	837	116	0	2077	0	99
0.50	0.02	-0.3	840	115	0	2077	0	99
0.55	0.01	-0.3	842	115	0	2077	0	99
0.60	0.00	-0.4	845	146	-26	2074	0	75
0.65	-0.03	-0.6	850	245	-25	2148	0	3
0.70	-0.06	-0.6	856	234	3	2134	44	0
0.75	-0.09	-0.6	862	223	3	2088	90	0
0.80	-0.12	-0.5	868	213	3	2043	135	0

Average Rear Tire Force - lbs 2100

Rear Tire Force Variation - % 3.5

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Four Link Bar Geometry Data

Upper Link Bar					Lower Link Bar				
Axle End		Chassis End			Axle End		Chassis End		
Hole	x-in	y-in	x-in	y-in	x-in	y-in	x-in	y-in	
1	0.000	19.250	18.500	12.000	0.000	10.000	18.500	7.000	
2	0.000	0.000	18.500	10.750	0.000	9.000	18.500	5.750	
3	0.000	0.000	18.500	9.500	0.000	8.000	18.500	4.500	
4	0.000	0.000	18.500	8.250	0.000	0.000	0.000	0.000	
5	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	

Adjust Geometry: Axle Height - in 0.000 Chassis Height - in 0.000
Pinion Angle - deg 0.00

Calculated Four Link Bar Details - Display Limits

Shock Separation - in		Instant Center Locations - in
min -3.0		x-min 36.0 y-min 1.0
max 3.0		x-max 56.0 y-max 16.0

Percent Anti-Squat - % | Lower Link Bar Angle - degs
min 65 | min -7.0
max 95 | max -2.0

Calculated Four Link Bar Details

Display Limits: On

Hole	Instant Center	Shock	%Anti-	Tire		Hole	Instant Center	Shock	%Anti-	Tire	
Code	x-in	y-in	Sep.	Squat	Hit	Code	x-in	y-in	Sep.	Squat	Hit
1132	41.6	2.9	-0.3	93	444						