

Calculation:				
	2nd Max	2nd min	Max	Min
units	in	in	in	in
r	5.5	5.5	5.5	5.5
Crank arm	6.9	6.9	6.9	6.9
Clearance	3	3	3	3
Xn	34.65	32.06	36.99	21.6
Gear box to end of seat	19.25	16.66	21.59	6.2
y (height of seat)	14.5	14.5	14.5	14.5
y2 (height to crank arm center)	10	10	10	10
y3 (distance from top of seat to crank arm center)	4.5	4.5	4.5	4.5
Distance from bucket edge to hole	19.77	17.26	22.05	7.66
	2.51	9.6	2.29	7.66
		2.4		
	Track positions			
	x1	7.6		
	x2	10		10.46
	x3	12.4		
	x4	14.8		
	x5	17.2		
	x6	19.6		
	x7	22		
	x8	24.4		
	x9	26.8		