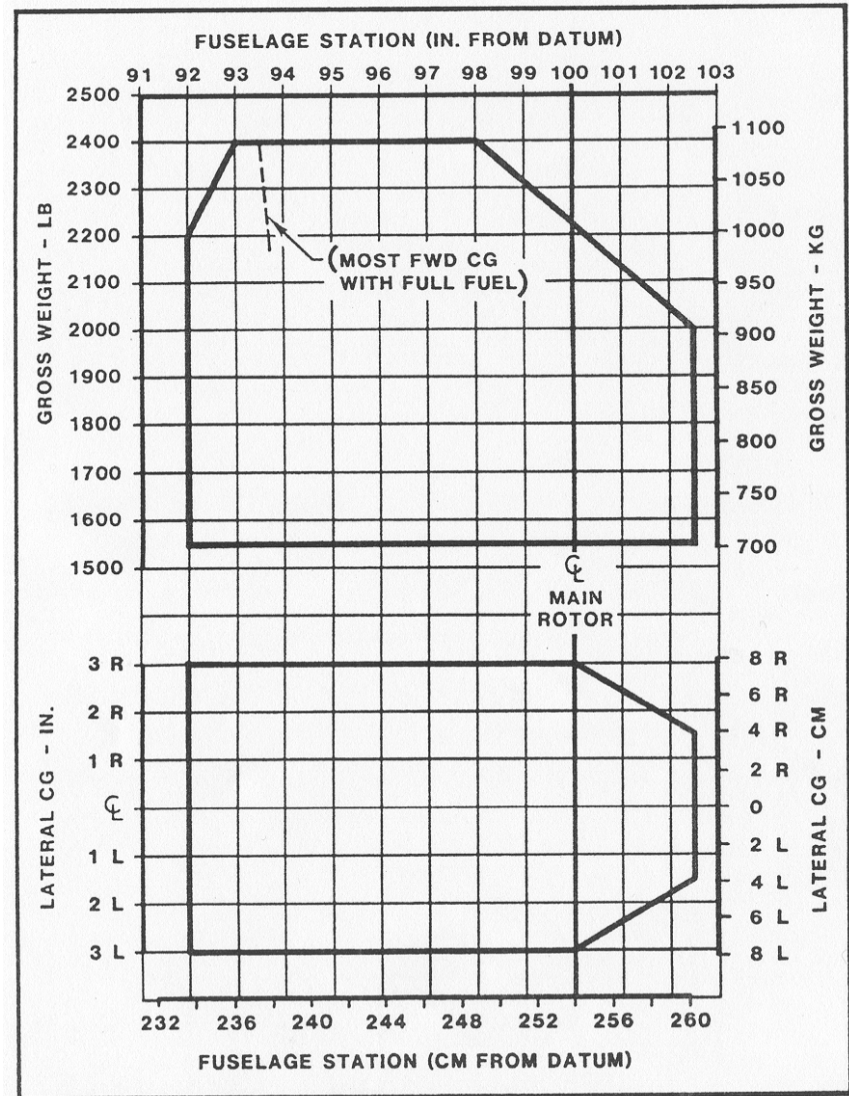




Robinson R44 Astro & Raven Mass & Balance

Date: _____
Reg: _____

Item	Mass (lbs)	Longitudinal CofG (+ = front of datum)		Lateral CofG (+ = right of datum)	
		Arm (inches)	Moment (in-lb)	Arm (inches)	Moment (in-lb)
Basic Empty Mass					
Left Front Door*	-7.5	49.4		-24.0	
Right Front Door*	-7.5	49.4		24.0	
Left Rear Door*	-7.0	75.4		-23.0	
Right Rear Door*	-7.0	75.4		23.0	
Removable Cyclic*	-0.8	35.8		-8.0	
Removable Collective*	-0.8	47.0		-21.0	
Removable Pedals (Both)*	-0.8	16.8		-9.5	
Pilot (Max 300lb inc baggage)		49.5		12.2	
Baggage under pilot (Max 50lb)		44.0		11.5	
Left forward pax (Max 300lb inc baggage)		49.5		-10.4	
Baggage under left forward pax (Max 50lb)		44.0		-11.5	
Left rear pax & baggage (Max 300lb)		79.5		-12.2	
Right rear pax & baggage (Max 300lb)		79.5		12.2	
Dry Operating Mass					
Min Dry Operating Mass	1550.0				
Main fuel (6lbs / US Gallon)		106.0		-13.5	
Aux fuel (6lbs / US Gallon)		102.0		+13.0	
Actual All Up Mass					
Max All Up Mass	2400.0				



* Delete were applicable

If backrest cushion is used, subtract thickness of compressed cushion.

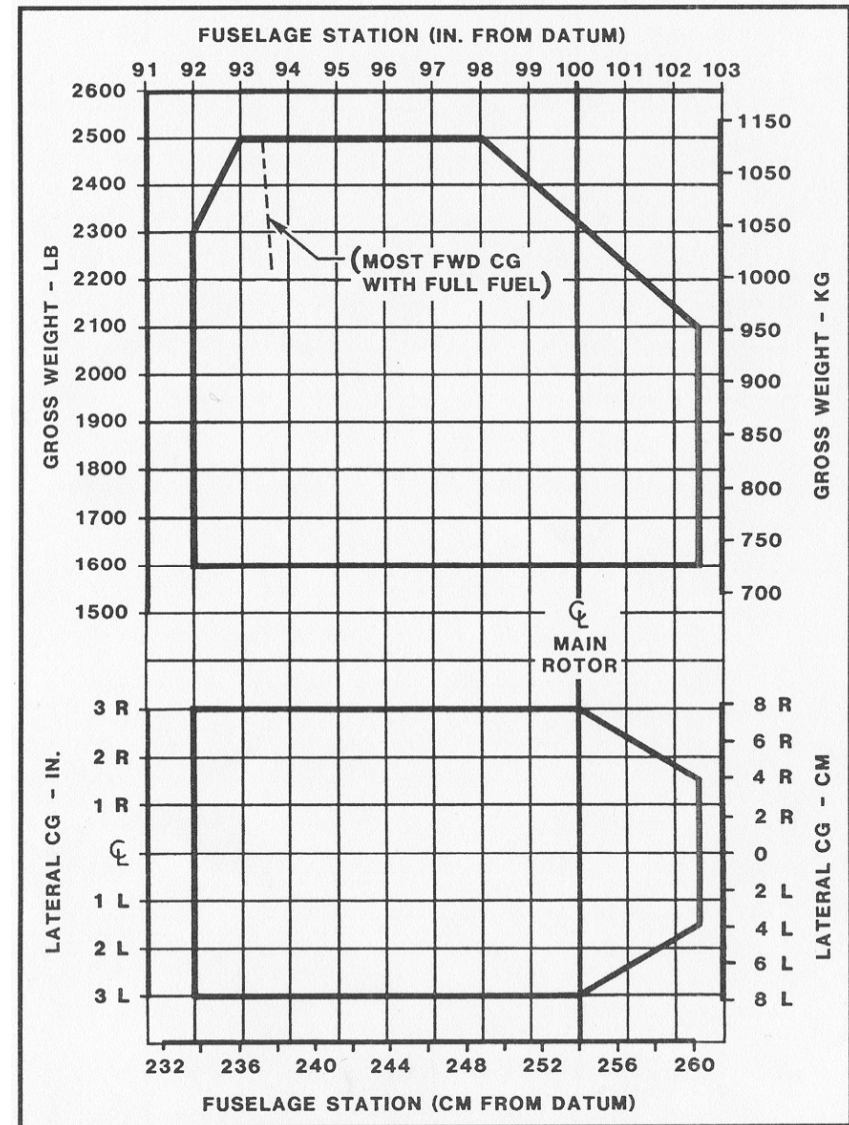


Robinson R44 Raven II Mass & Balance

Date: _____

Reg: _____

Item	Mass (lbs)	Longitudinal CofG (+ = front of datum)		Lateral CofG (+ = right of datum)	
		Arm (inches)	Moment (in-lb)	Arm (inches)	Moment (in-lb)
Basic Empty Mass					
Left Front Door*	-7.5	49.4		-24.0	
Right Front Door*	-7.5	49.4		24.0	
Left Rear Door*	-7.0	75.4		-23.0	
Right Rear Door*	-7.0	75.4		23.0	
Removable Cyclic*	-0.8	35.8		-8.0	
Removable Collective*	-0.8	47.0		-21.0	
Removable Pedals (Both)*	-0.8	16.8		-9.5	
Pilot (Max 300lb inc baggage)		49.5		12.2	
Baggage under pilot (Max 50lb)		44.0		11.5	
Left forward pax (Max 300lb inc baggage)		49.5		-10.4	
Baggage under left forward pax (Max 50lb)		44.0		-11.5	
Left rear pax & baggage (Max 300lb)		79.5		-12.2	
Right rear pax & baggage (Max 300lb)		79.5		12.2	
Dry Operating Mass					
Min Dry Operating Mass	1600.0				
Main fuel (6lbs / US Gallon)		106.0		-13.5	
Aux fuel (6lbs / US Gallon)		102.0		+13.0	
Actual All Up Mass					
Max All Up Mass	2500.0				



* Delete were applicable

If backrest cushion is used, subtract thickness of compressed cushion.