## RV-8 WEIGHT AND BALANCE DATA QUICK REFERENCE

NOTE: this quick reference chart is NOT a substitute for the complete Weight and Balance information contained in Section 14 of the Builder's Manual.

CAUTION: the Gross Weight is established by the builder, who is considered the manufacturer.

## CAUTION: The Aerobatic Gross Weight is set by structural limits. <u>AEROBATIC FLIGHT SHOULD NOT BE CONDUCTED</u> <u>AT WEIGHTS GREATER THAN 1600 LBS nor AT CG LOCATIONS OUTSIDE THE AEROBATIC CG LIMIT</u>

DATUM......70 inches forward of the wing leading edge

<u>LIMITS</u>

Design C.G. Range......15%-29% of wing chord <u>OR</u> 78.7-86.82 inches aft of datum.

ARMS

Fwd Baggage	58.51" aft of datum
Fuel	80.00" aft of datum
Pilot	91.78" aft of datum
Passenger	119.12" aft of datum
Aft Baggage Floor	138.00" aft of datum
Aft Baggage Shelf	152.91" aft of datum

## DETERMINING EMPTY CG

Level the aircraft longitudinally and laterally using the longerons in the cabin area as the level reference. Weigh the airplane with the canopy closed, full oil and the fuel tanks empty. Enter the weights and distances from the datum (arm) in the chart below. Multiply weight by arm to obtain moment. Divide the total moment by the weight to determine the empty CG.

	Weight	Arm	Moment
Right Wheel			
Left Wheel			
Nose/Tail Wheel			
Total			
CG (moment divided by weight)			

