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. AEROBATIC FLIGHT SHOULD NOT BE CONDUCTED AT WEIGHTS GREATER THAN 1375 LBS nor AT CG LOCATIONS OUTSIDE THE AEROBATIC CG LIMIT.

DATUM..................................................60 inches forward of the wing leading edge

LIMITS
Design C.G. Range...............................15%-30% of wing chord OR between 68.7- 77.4 inches aft of datum.
Recommended Gross Weight ..........1500 lbs
Aerobatic Gross Weight.....................1375 lbs
Aerobatic CG Limit..............................27.5% of chord OR 75.9” aft of datum

ARMS
Fuel ..................................................70.00” aft of datum
Pilot ...................................................82.50” aft of datum
Passenger ..........................................107.00” aft of datum
Optional Fwd Baggage......................56.50” aft of datum
Rear Baggage.....................................130.00” 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.

<table>
<thead>
<tr>
<th></th>
<th>Weight</th>
<th>Arm</th>
<th>Moment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right Wheel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Left Wheel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nose/Tail Wheel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CG (moment divided by weight)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Diagram of RV-4 aircraft with dimensions and datum location.