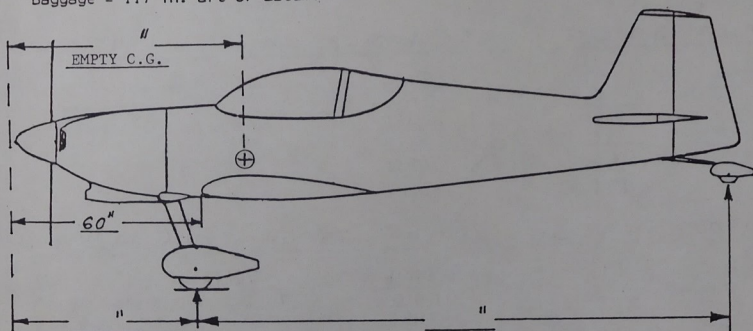


WEIGHT & BALANCE DATA FOR:

MAKE VAN'S AIRCRAFT MODEL: RV-6 SERIAL: 20436 REGISTRATION N138W

Datum = 60 inches forward of wing leading edge. (L.E.)
Design C.G. Range = 15% to 29% of wing cord, or 8.7" to 16.8 inches from L.E.,
or 68.7 to 76.8 inches aft of Datum.

Wing L.E. = 60 inches aft of datum.
Main wheel, right = 59.5 in. aft of datum.
Main wheel, left = 59.5 in. aft of datum.
Tail wheel = 236.9 in. aft of datum.
Fuel = 70 in. aft of datum.
Pilot & Passenger = 87.4 in. aft of datum.
Baggage = 117 in. aft of datum.



Aircraft Weighed empty in level flight attitude. (includes 8 qts. of oil, no fuel)

	Weight	Arm	Moment
Right Wheel -	<u>466</u>	<u>59.5</u> in.	<u>27727</u> in. lbs.
Left Wheel -	<u>478</u>	<u>59.5</u>	<u>28441</u>
Tail Wheel -	<u>53</u>	<u>236.9</u>	<u>12556</u>
	<u>997</u>		<u>68724</u>

C.G. = 68.9 in. aft of datum.

GROSS WEIGHT C.G.

	Wt.	Arm	Moment
Aircraft	<u>997</u>	<u>68.9</u>	<u>68724</u>
Fuel (38 Gal.)	<u>228</u>	<u>70.0</u>	<u>15960</u>
Pilot	<u>200</u>	<u>87.4</u>	<u>17480</u>
Passenger	<u>150</u>	<u>87.4</u>	<u>13110</u>
Baggage	<u>25</u>	<u>117.0</u>	<u>2925</u>
	<u>1600</u>		<u>118199</u>

Gross C.G. = 73.9 in. aft of datum.
2.9 in. is less than the limit of 76.8 in., thus is within the limit for aft C.G.

MOST AFT C.G. for standard loading. (Gross wt. minus fuel burn to minimum fuel)

Aircraft	<u>997</u>	<u>68.9</u>	<u>68724</u>
Fuel (5 gal.)	<u>30</u>	<u>70.0</u>	<u>2100</u>
Pilot	<u>200</u>	<u>87.4</u>	<u>17480</u>
Passenger	<u>150</u>	<u>87.4</u>	<u>13110</u>
Baggage	<u>67</u>	<u>117.0</u>	<u>2925</u>
	<u>1444</u>		<u>104339</u>

C.G. = 72.3 in. aft of datum.
4.5 in. is less than the limit of 76.8 in., thus is within the limit for aft C.G.

MOST FORWARD C.G. (STD PILOT WT.)

Aircraft	<u>997</u>		<u>68724</u>
Fuel (38 Gal.)	<u>228</u>	<u>70.0</u>	<u>15960</u>
Pilot	<u>200</u>	<u>87.4</u>	<u>17480</u>
	<u>1425</u>		<u>102164</u>

C.G. = 71.7 in. aft of datum.
3.0 in. is greater than the forward limit of 68.7, thus is within the forward limit.

MOST FORWARD C.G. (MIN. PILOT WT.)

Aircraft	<u>997</u>		<u>68724</u>
Fuel (38 Gal.)	<u>228</u>	<u>70.0</u>	<u>15960</u>
Pilot	<u>140</u>	<u>87.4</u>	<u>12236</u>
	<u>1365</u>		<u>96920</u>

C.G. = 71.0 in. aft of datum.
2.3 in. is greater than the forward limit of 68.7, thus is within the forward limit.

MOST AFT C.G. 100# BAGGAGE - MIN. FUEL (5 GAL.)

Aircraft	<u>997</u>		<u>68724</u>
Fuel (5 Gal)	<u>30</u>	<u>70.0</u>	<u>2100</u>
Pilot	<u>200</u>	<u>87.4</u>	<u>17480</u>
Passenger	<u>150</u>	<u>87.4</u>	<u>13110</u>
Baggage	<u>100</u>	<u>117.0</u>	<u>11700</u>
	<u>1477</u>		<u>113114</u>

C.G. = 76.6 in. aft of datum.
0.2 in. is less than the aft limit of 76.8 in., thus is within limits.

MOST AFT C.G. 100# BAGGAGE - FUEL TO MAX. WT. (25.5 gal)

Aircraft	<u>997</u>		<u>68724</u>
Fuel (25.5gal)	<u>153</u>	<u>70.0</u>	<u>10710</u>
Pilot	<u>200</u>	<u>87.4</u>	<u>17480</u>
Passenger	<u>150</u>	<u>87.4</u>	<u>13110</u>
Baggage	<u>100</u>	<u>117.0</u>	<u>11700</u>
	<u>1600</u>		<u>121724</u>

C.G. = 76.1 in. aft of datum.
0.7 in. is less than the aft limit of 76.8 in., thus is within limits.

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Aircraft	_____	_____	_____
Fuel (gal)	_____	<u>70.0</u>	_____
Pilot	_____	<u>87.4</u>	_____
Passenger	_____	<u>87.4</u>	_____
Baggage	_____	<u>117.0</u>	_____

C.G. = _____ in. aft of datum.
_____ in. is less than the aft limit of 76.8 in., thus is within limits.