STOL CH 750
WEIGHT & BALANCE REPORT
Forward & Aft C.G. Check

KIT SERIAL No 75-

Registration ______________________

By: ______________________________

Date: _____________________________

<table>
<thead>
<tr>
<th>ITEM</th>
<th>WEIGHT (pounds)</th>
<th>ARM (mm.)</th>
<th>MOMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>RIGHT MAIN WHEEL</td>
<td>$W_R$</td>
<td>$L_R$</td>
<td>$W_R \times L_R$</td>
</tr>
<tr>
<td>LEFT MAIN WHEEL</td>
<td>$W_L$</td>
<td>$L_L$</td>
<td></td>
</tr>
<tr>
<td>NOSE WHEEL</td>
<td>$W_N$</td>
<td>$L_N$</td>
<td></td>
</tr>
<tr>
<td>Computed CG EMPTY</td>
<td>Empty Weight:</td>
<td>CG =</td>
<td>Aircraft Moment</td>
</tr>
</tbody>
</table>

**AIRCRAFT EMPTY CG**

**PILOT / PASSENGER**

$W = 650^*$

**WING TANKS**

L & R: _____ Gal. each

$W = 630$

**REAR BAGGAGE**

$W = 1600$

**TOTAL**

$W_T = \sum$ of all items

$W_T$ depends on individuals' weight distribution.

$TM_F = \sum$ of all items located forward of the computed empty CG

$TM_R = \sum$ of all items located rear of the computed empty CG

**CG RANGE**

19% to 34% of MAC

MAC = 1480 mm. +/- 15 mm.

CG Range: From 280 mm. to 500 mm.

Center of Gravity (CG) = Total Moment (TM) / Total Weight (TW)

**Measuring Equipment and Methods**

- CG = Center of Gravity
- datum = reference plane
- TW = Total Weight
- TM = Total Moment
- $W_R$ = Left Main Wheel Weight
- $W_L$ = Right Main Wheel Weight
- $W_N$ = Nose Wheel Weight
- $L_R$ = Left Wheel Arm
- $L_L$ = Left Wheel Arm
- $L_N$ = Nose Wheel Arm
- $L_R$ = Right Wheel Arm
- $L_N$ = Nose Wheel Arm
- $L$ = Scale Reading
- $W$ = Scale Reading
- *Depends on individuals' weight distribution.

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ZENITH AIRCRAFT COMPANY, Mexico Airport, Mexico, Missouri 65265-0650 Tel: 573-581-9000 FAX: 573-581-0011 www.zenithair.com
STOL CH 750: Center of Gravity Limits

Diagram is not to scale

Loaded Aircraft Weight (lbs.)

1,320 lbs. 650 kg.
1,120 lbs. 510 kg.

1,320 lbs. (on wheel or skis) 650 kg.

Datum: Plumb Line from Wing Leading Edge Slat

Computed C.G. = X inches

MAC = 1480 mm. = 1.48 m.
MAC = 58.25 Inches