

# N9520D Weight & Balance Calculator Instructions

**A** **Note:** Calculator calculates the corresponding pounds of fuel

**1** Enter pilot, co-pilot and rear seat passengers weight in lbs.

**3** Enter the number of gallons of fuel to be on board

Data entry fields

| Items (and POH Published ARM) | Weight - lbs    | Arm - inches | Moments - lbs/inch |
|-------------------------------|-----------------|--------------|--------------------|
| 9520D Empty Weight (39.45)    | 1,657.39        | 39.45        | 65,384.04          |
| Fuel (6 lbs/gal) (48.00)      | 0.00            | 48.00        | 0.00               |
| Pilot Station (37.00)         | 0.00            | 37.00        | 0.00               |
| Co-Pilot Station (37.00)      | 0.00            | 37.00        | 0.00               |
| Rear Seat Station (73.00)     | 0.00            | 73.00        | 0.00               |
| Baggage Area 1 (95.00)        | 20.50           | 95.00        | 1,947.50           |
| Baggage Area 2 (123.00)       | 0.00            | 123.00       | 0.00               |
| <b>Total</b>                  | <b>1,677.89</b> | <b>40.13</b> | <b>67,331.54</b>   |

| Fuel Calculation       |        |
|------------------------|--------|
| Enter Number of Gals   | 0 Gals |
| Calculated Fuel Weight | 0 lbs  |

| Weigh & Balance Formulas |      |
|--------------------------|------|
| $W \times A = M$         |      |
| Total Moments            | = CG |
| Total Weight             |      |

| Normal Cat. CG Forward - Aft Limits |             |
|-------------------------------------|-------------|
| Forward                             | 35 inches   |
| Aft                                 | 47.4 inches |

**2** Enter / modify baggage areas 1 & 2 weight in lbs. **NOTE:** 20.50 lbs is the weight of tools and other items located in aircraft

| Weight (MTOW) | Calculated Load | Amount Under/Over Useful Load |
|---------------|-----------------|-------------------------------|
| 2450 lbs      | 20.50 lbs       | 772.11 lbs                    |

**B** **Note:** Calculator calculates Total Aircraft Loaded Weight. Confirm with the aircraft Weight & Balance chart to ensure the total aircraft loaded weight is within limits and does not exceed **MTOW**

**C** **Note:** Calculator calculates the "Load" amount based on the weights entered.

**D** **Note:** Calculator calculates Center of Gravity (CG). Confirm with aircraft Weight & Balance chart to ensure CG is within forward and aft limits for the Total Aircraft Loaded Weight

**E** **Note:** Calculator calculates the number of pounds under or over (expressed in **RED**) the maximum allowable "Useful Load" (**795 lbs.**)

The "Total Aircraft Loaded Weight" includes the aircraft weight plus the "Load" weights

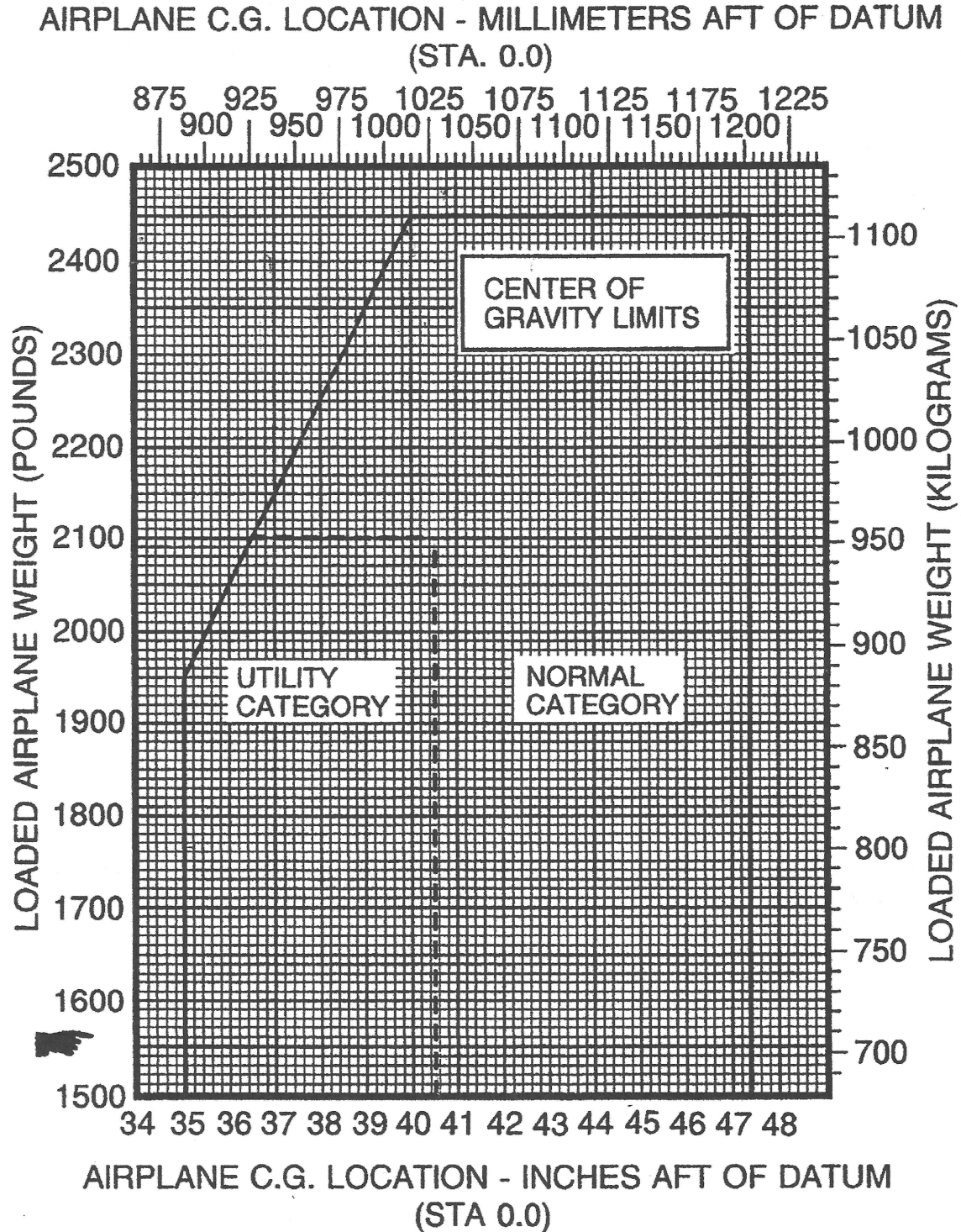
- The "Load" includes the weights of the following items on-board:
- Usable fuel
  - Pilot
  - Co-pilot
  - Rear seat passengers
  - Baggage areas 1 & 2

**MTOW** (maximum Take- Off-Weight)

# N9520D

SECTION 6  
WEIGHT & BALANCE / EQUIPMENT LIST

CESSNA  
MODEL 172R



FAA CRS WQ3R954L

# WEIGHT AND BALANCE AND EQUIPMENT LIST SUPPLEMENT SHEET

**Customer Name: DEWITT HODGE**

**Aircraft Type: CESSNA**

**Model: 172R**

**Serial #: 17280385**

**Date: 6-Apr-16**

**Registration #: N9520D**

**Work Order #:**

Note: This weight & balance recalculation is accurate only to the extent of the accuracy of the data obtained from the previous weight & balance figures provided by the aircraft owner. Unless otherwise noted, all figures are in inches & pounds.

|   |            | WEIGHT   | ARM   | MOMENT |
|---|------------|----------|-------|--------|
| Original Data Dated:                        |            |          |       |        |
| <b>ITEMS REMOVED:</b>                       |            |          |       |        |
|   | <b>S/N</b> |          |       |        |
| EGT/ FUEL FLOW INDICATOR P/N S3277-2        | 449        | -0.66    | 12.10 | -7.99  |
| TACHOMETER INDICATOR P/N S3329-1            | 556        | -1.00    | 12.10 | -12.10 |
| FUEL QUANTITY INDICATOR P/N S3281-2         | 603        | -0.40    | 14.40 | -5.76  |
| OIL PRESSURE AND TEMP INDICATOR P/N S3279-1 | 1654       | -0.40    | 16.50 | -6.60  |
| GPS ANNUNCIATOR CONTROL P/N MD41-228        | 5241       | -0.33    | 12.10 | -3.99  |
| <b>ITEMS INSTALLED:</b>                     |            |          |       |        |
| EDM-900-4C P/N 790000-A                     | 5278       | 5.18     | 0.60  | 3.12   |
|   |            |          |       | 0.00   |
|   |            |          |       | 0.00   |
|   |            |          |       | 0.00   |
|   |            |          |       | 0.00   |
| CHANGE IN DATA:                             |            | 2.39     |       | -33.32 |
| AIRCRAFT NEW EMPTY WEIGHT                   |            | 1657.39  |       |        |
| AIRCRAFT NEW CENTER OF GRAVITY              |            | 39.45    |       |        |
| AIRCRAFT NEW MOMENT                         |            | 65382.11 |       |        |
| AIRCRAFT NEW USEFUL LOAD                    |            | 795.00   |       |        |
| GROSS AIRCRAFT WEIGHT                       |            | 2450.00  |       |        |

SIGNED: \_\_\_\_\_

J. ORELLANA