

PEE KAY FLOAT DIVISION

DEVORE AVIATION CORPORATION

23SD2000-1 (D)

August 24, 1981

Page 1 of 6

SUPPLEMENTAL DATA

CESSNA 172 I, K, L, M, N & P AIRCRAFT

ON

PK 2300 or B2300 FLOATS

STC NO. SA 1000 EA

Aircraft Serial No. 17257157

Aircraft Registration No. N46287

LOADING SCHEDULES

The following pages provide the necessary data for operating this aircraft within the approved Weight and Center of Gravity Envelope.

CESSNA 172 ON PK 2300 or B2300 FLOATS

DETERMINATION OF TOTAL OCCUPANCY WEIGHT

To determine the total occupancy weight, add the aircraft empty weight including full oil and unusable fuel to one half hour of fuel at rated maximum continuous power and subtract this total from the Maximum Gross Weight. The remainder is the total occupancy weight required under Paragraph 3.74(b) of CAM 3 of the Federal Aviation Regulations.

For any actual flight operation, the maximum weight and C. G. position must be within the limits shown on the aircraft placard. These limits and a sample method of calculation are shown elsewhere in this supplement.

For this aircraft Registration No. _____
 Serial No. _____

- | | |
|---|-----------------|
| 1. CALCULATE LICENSED EMPTY WEIGHT OF AIRCRAFT (WHICH INCLUDES UNUSABLE FUEL) AND | |
| ADD 15 Lbs. for FULL OIL (172 I,K,L,M&P) or | _____ lb. |
| ADD 11 Lbs. for FULL OIL (172N) | |
| 2. ONE HALF HOUR OF FUEL AT RATED MAXIMUM CONTINUOUS POWER | <u>24</u> lb. |
| 3. TOTAL (1.) PLUS (2.) | _____ lb. |
| 4. MAXIMUM GROSS WEIGHT | <u>2300</u> lb. |
| 5. TOTAL OCCUPANCY WEIGHT (4.) Minus (3.) | _____ lb. |

NOTE: This page must be modified whenever a change is made to the aircraft licensed empty weight (Form 337)

PEE KAY FLOAT DIVISION

DEVORE AVIATION CORPORATION

23SD2000-1 (D)

August 24, 1981

Page 3 of 6

CESSNA 172 ON PK 2300 or B2300 FLOATS
WEIGHT & BALANCE CALCULATION

	Weight: lb.	C.G. Arm: ins.	Moment: lb.-ins.
Item 1. Licensed Empty Weight		+	+
2. Oil, 8 Qts. (172 I, K, L, M & P) OR	15	-14	- 210
Oil, 6 Qts. (172N)	11	-14	- 154
3. Usable Fuel (6 lb./gal.)		+48	+
4. Pilot and Front Passenger		+37	+
5. Rear Passengers		+73	+
6. Baggage Area 1 (or child pass.)		+95	+
7. Baggage Area 2		+123	+
<hr/>			
8. Totals			

INSTRUCTIONS: For Items 1, 3, 4, 5, 6, 7, multiply "Weight" by "C.G. Arm" to obtain "Moment" or use the diagrams in the Owner's Manuals for the Cessna 172. The moments shown in these diagrams must be multiplied by 1000 to give moments in lb.-ins. to enter in the calculation above. Divide the Total Moment by the Total Weight to obtain the C.G. position. This must lie within the limits shown in this schedule and on the aircraft cockpit placard.

NOTES:

- Item 1. The figures for the licensed empty weight with the installed equipment are shown in the current Form 337. Unusable fuel is already included.
2. The weight of full oil, 8 qts., for the 172 I,K,L,M&P or 6 qts. for the 172N, is used for all calculations.
3. Usable fuel is 38 gals. maximum with standard tanks(172 I,K,L & M); usable fuel is 40 gals. max. with standard tanks (172N&P); 48 gals. max. with long range tanks (172 I,K,L,M,N&P).

PEE KAY FLOAT DIVISION

DEVORE AVIATION CORPORATION

23SD2000-1 (D)

August 24, 1981

Page 4 of 6

CESSNA 172 ON PK 2300 or B2300 FLOATS

- Item 4. Adjustable seat position for the average occupant is at 37" Arm, and a moment line for this figure is shown in the Loading Graph of the Owner's Manuals. If seats are not at 37", the actual arm may be used. See Owner's Manuals.
5. The C.G. arm for rear passengers is fixed, since the seat is fixed.
6. Baggage can be loaded in the Area 1, or a passenger(s) carried on the child's seat when fitted. Maximum load 120 lb. The baggage arm of 95" is measured to the center of the area. The maximum allowable combined weight in Area 1 (whether baggage or passenger) plus baggage in Area 2 is 120 lb. *
7. The maximum allowable baggage in Area 2 is 50 lb. The maximum allowable combined weight in Areas 1 and 2 is 120 lb.
8. The C.G. position in the "C.G. Arm in inches" can be obtained by dividing the total moment by the total weight. At this weight, the C.G. position must lie within the boundaries shown on page 5 of this schedule. Alternatively, the total moment obtained in the third column can be divided by 1000 and located, with the total weight, on the Center of Gravity Moment Envelope on page 6 of this schedule. The reference zero for all C.G. Arms is the firewall, and distances aft of this are positive.

PEE KAY FLOAT DIVISION

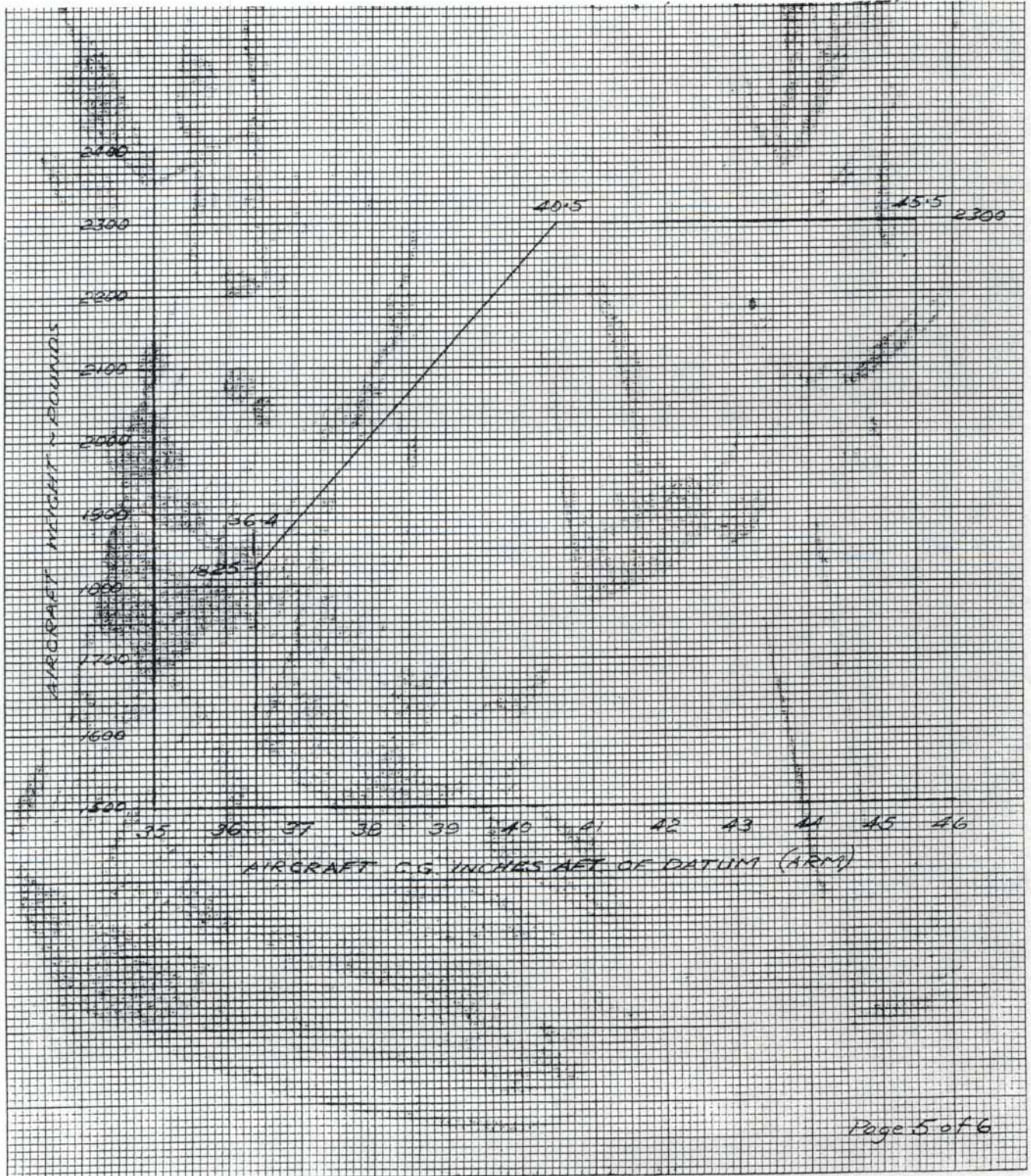
DEVORE AVIATION CORPORATION

23SD2000-1 (D)
August 24, 1981
Page 5 of 6

CESSNA 172

PK 2300 OR B2300 FLOATS

C.G. LIMITS



46 1323

K^oΣ
10 X 10 TO 1/8 INCH 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

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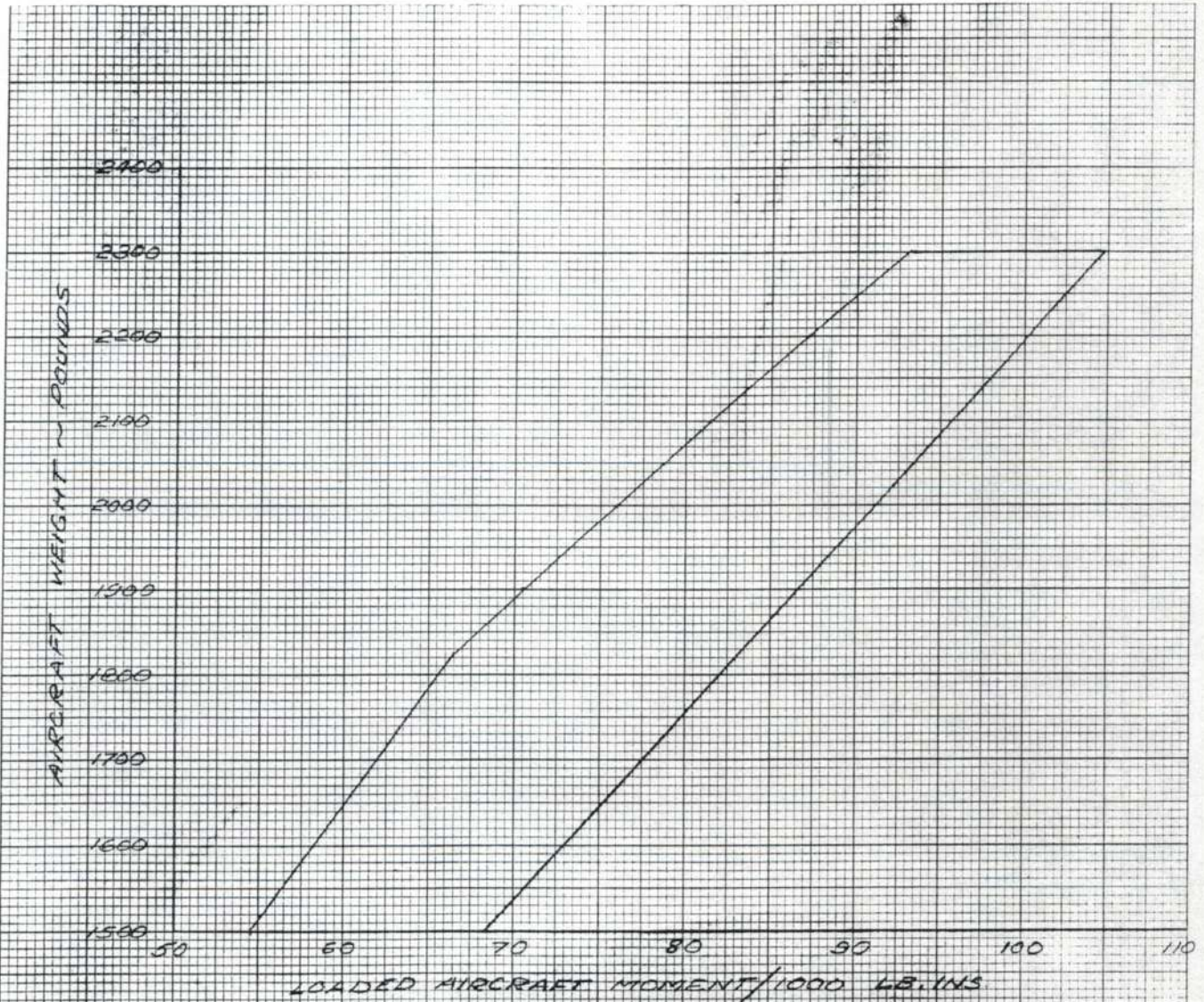
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23SD2000-1 (D)
August 24, 1981
Page 6 of 6

CESSNA 172

PK 2300 OR B2300 FLOATS

C.G. MOMENT ENVELOPE



46 1323

10 X 10 TO 1/2 INCH 7 X 10 INCHES
KEUFFEL & ESSER CO. MADE IN U.S.A.

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DEVORE AVIATION CORPORATION

W E I G H T A F F I D A V I T

This will certify that the fleet weight of two PK Model B2300 Seaplane floats, equipped with dual water rudders, and a complete installation kit for attachment to Cessna 172 Series aircraft, is 305 pounds. The center of gravity of this weight is located at fuselage station 43.2 inches. Datum is fuselage station 00.0 ... front face of firewall.



FAA-DER-1-52

PK FLOATS
DeVore Aviation Corporation

B23WA2000-1
B23WA2500-1
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