

## COMPUTED WEIGHT &amp; BALANCE REPORT

DATE **2/12/47**

CESSNA AIRCRAFT COMPANY  
WICHITA, KANSAS

MODEL 120

TYPE CERTIFICATE NO. 768

0.768 AIRCRAFT SPECIFICATION A-768-3  
PRODUCTION CERTIFICATE NO. 4 (Dated March 28, 1946)

STANDARD AVERAGE WEIGHT 854.0  
ACTUAL EMPTY WEIGHT \_\_\_\_\_

EMPTY C.G. 22.9 SERIAL NO. 12695  
EMPTY C.G.            NC NO. 2442H

Standard average airplane with items shown on equipment list dated 2/22/47.

CORRECTED WEIGHT & HORIZONTAL BALANCE

ITEM	WEIGHT (LBS)	ARM	MOMENT
AIRCRAFT WEIGHT	854.0	13.9	11859
LESS —			
CORRECTED TOTAL			
PLUS +			

NEW EMPTY WEIGHT	EMPTY C.G.
MAXIMUM WEIGHT - 1450 LBS.	EMPTY WEIGHT CG RANGE +12.2 TO +14.5 (FURTHER CHECK NOT REQUIRED)
C.G. RANGE - 13.5 TO 17.7 INCHES AFT OF DATUM (WING LEADING EDGE) 22% TO 29.2% M.A.C.	

MOST FORWARD C.G. LOCATION

ITEM	WEIGHT (LBS)	ARM	MOMENT
EMPTY WEIGHT			
PILOT	170.0	19.5	3315
FUEL 7.08 GAL.	42.5	23.0	978
OIL 4.5 QTS.	8.5	-31.5	-268
TOTAL		MOST FWD. C.G.	

Fuel 6 lbs. Gal.  
Oil 7.5 lbs. Gal.  
Baggage 80.0 lbs Maximum

$$\text{BALANCE} = \frac{-5}{59.0} = \quad \% \text{ M.A.C.}$$

MOST REARWARD C.G. LOCATION

ITEM	WEIGHT (LBS.)	ARM	MOMENT
EMPTY WEIGHT			
PILOT & PASSENGER	340.0	19.5	6630
FUEL GAL.		23.0	
OIL 4.5 QTS.	8.5	-31.5	-268
BAGGAGE LBS.		37.5	
TOTAL		MOST RWD.C.G.	

$$\text{BALANCE} = \frac{-5}{59.0} = \quad \% \text{M.A.C.}$$

PREPARED BY L. E. Moreland

APPROVED BY

*Foras E. Hillman*  
DESIGNATED MANUFACTURING  
INSPECTION REPRESENTATIVE

EQUIPMENT LIST

Cessna Models 140 & 120 (1947)

SERIAL NO. 12695

NC NO. 2442N

DATE 2/12/47

MODEL 120

The following items of equipment are installed in excess of required equipment.  
When these \*items replace standard required equipment, the actual weight increase  
or decrease is indicated.

ITEM NO.	DESCRIPTION	WEIGHT(LBS.)	ARM(IN.)
2	* <del>Propeller</del> <del>McCaulley Model 1A90</del>	11	- 50
303	<del>Landng Light Installation</del>	6	/ 15
304(b)	<del>Magneto Radio Receiver</del>	5	- 6
401	Cabin Heater	3	- 30
	<del>Speaker Installation</del>	3	/ 37
	Co-pilot Brake Pedals	2	- 11
	<del>Carburetor Mixture Control</del>	1	0
	<del>Septic Fittings</del>	5	/ 29
	<del>Radio Shielding</del>	2	- 30
	<del>Radio Antenna</del>	.5	/ 14
	<del>Fire Extinguisher and Bracket</del>	5	/ 9
	<del>Fire Installation</del>	18	/ 48
	Electrical System, Model 120	53	/ 21
304(a)	<div> <div>VISUAL NIGHT All Model 140 Model 120 with</div> <div>INSTRUMENT NIGHT</div> <div> <del>General Electric ASLB Radio</del>  *<del>Sensitive Altimeter</del>  <del>Turn and Bank Indicator</del>  <del>Rate of Climb Indicator</del>  <del>Clock with Sweep Hand</del>  <del>Dugas 2421man, 5005</del> </div> </div>	13	- 5
		.5	- 1
		2	- 2
		1	- 1
		.5	0

THE FOLLOWING IS INFORMATION FOR FIELD INSTALLATION

*Front Skis	- 4	/ 29
*Rear Ski	- 3	/ 197
*Float Installation with Fin and Cables	94	/ 11