

WEIGHT AND BALANCE REVISION

MAKE: Cessna

MODEL: 172L

SERIAL#: 17259654

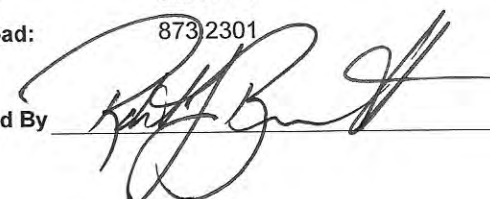
REGISTRATION: N7954G

EQUIPMENT CHANGE

Computing New C.G.			
Item, Make and Model *	Weight	Arm	Moment
Previous information from W&B dated 01/19/2017	1427.11	39.16	55885.63
EQUIPMENT ADDED			
Garmin GAP 26 AOA Pitot tube	0.33	24.40	8.05
Garmin GSU 25 Air Data Computer for AOA	0.48	10.50	5.04
Garmin GI260 AOA Display	0.27	11.50	3.11
Garmin G5 Electronic Flight Instrument with battery	0.83	15.00	12.45
EQUIPMENT REMOVED			
RC Allen RCA22-7 Vacuum attitude indicator	-2.25	12.50	-28.13
NEW TOTALS	1426.77	39.17	55886.15

* ITEM NUMBERS WHEN LISTED IN THE PERTINENT AIRCRAFT SPECIFICATION MAY BE USED IN LIEU OF "ITEM, MAKE, AND MODEL"

Gross Weight: 2300.00
 New empty weight: 1426.77
 New Center of gravity: 39.17
 Moment: 55886.15
 Useful load: 873.2301



Prepared By Robert J Burnett A&P 3633440 Date 11/30/2017

WEIGHT AND BALANCE REVISION

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EQUIPMENT CHANGE

Computing New C.G.			
Item, Make and Model *	Weight	Arm	Moment
Previous information from ELT installation W&B dated 1/19/2017	1427.29	39.16	55892.68
EQUIPMENT ADDED			
Transponder Garmin GTX 345	3.12	11.50	35.88
EQUIPMENT REMOVED			
Transponder Garmin GTX 327	-3.30	11.50	-37.95
NEW TOTALS	1427.11	39.16	55890.61

*Supn Seeded
11/30/17*

* ITEM NUMBERS WHEN LISTED IN THE PERTINENT AIRCRAFT SPECIFICATION MAY BE USED IN LIEU OF "ITEM, MAKE, AND MODEL"

Gross Weight: 2300.00
 New empty weight: 1427.11
 New Center of gravity: 39.16
 Moment: 55890.61
 Useful load: 872.89

Run: 8/20/2004
2:08PM

Mather Aviation LLC

Aircraft Weight & Balance Report

Page: 1

Aircraft: N7954G Type: CESSNA 172 S/N:
Model:
Prior Empty Weight: 1,433.9 As Of: 8/11/2003 Prior Useful Load: 866.0
Prior Longitudinal Moment: 56,096.1 Arm: 39.1200

Items Removed:

Date	Description	Weight	Longitudinal	
			Arm	Moment
8/18/2004	Slick Magnetos, (2 Each)	10.40	-7.5000	-78.0
Total of Items Removed:		10.40		78.0

Items Installed:

Date	Description	Weight	Longitudinal	
			Arm	Moment
8/18/2004	LASER Engine Control System Controller	1.10	0.0000	0.0
8/18/2004	LASER Engine Control System Magnetos	10.40	-7.5000	-78.0
Total of Items Installed:		11.50		-78.0

New Final Figures:

Weight: **1,435.0** **Useful Load:** **864.9**
Longitudinal Moment: **56,096.1** **Arm:** **39.0900**

165.56
Inspector: Kerry D. Glavich for
FAA CRS #PLPR439B
Revised Date: 8/18/04

Loading and Center of Gravity Charts

IT IS THE RESPONSIBILITY OF THE PILOT AND AIRCRAFT OWNER TO INSURE THAT THE AIRCRAFT IS LOADED PROPERLY.

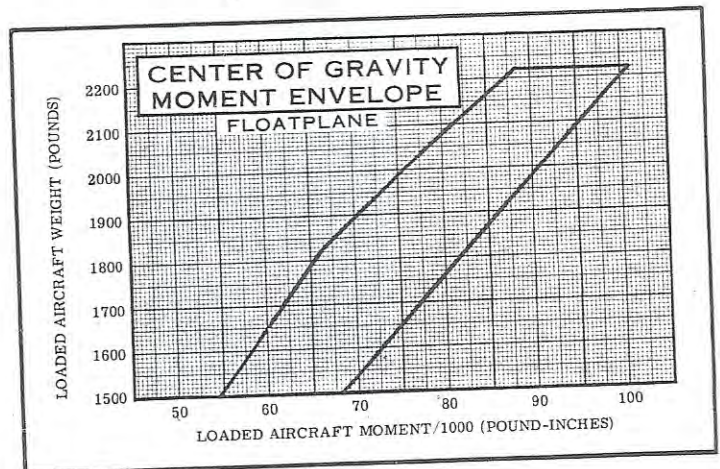
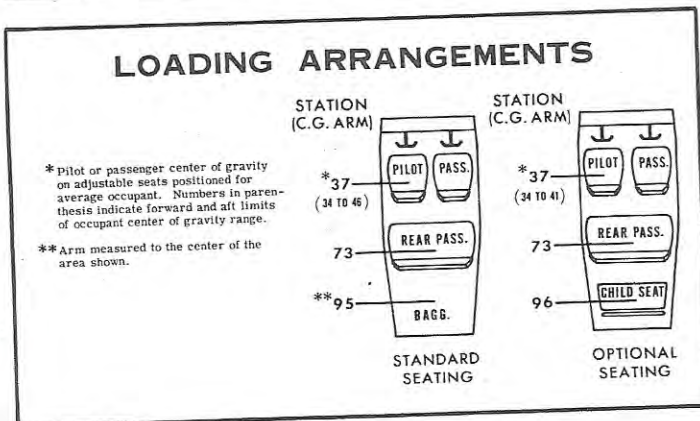
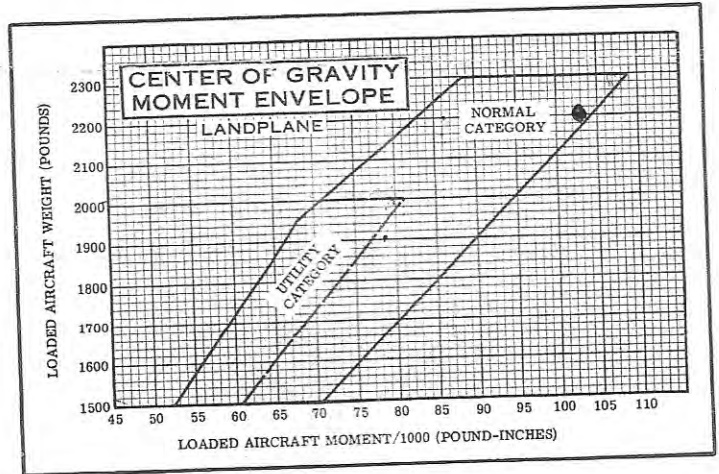
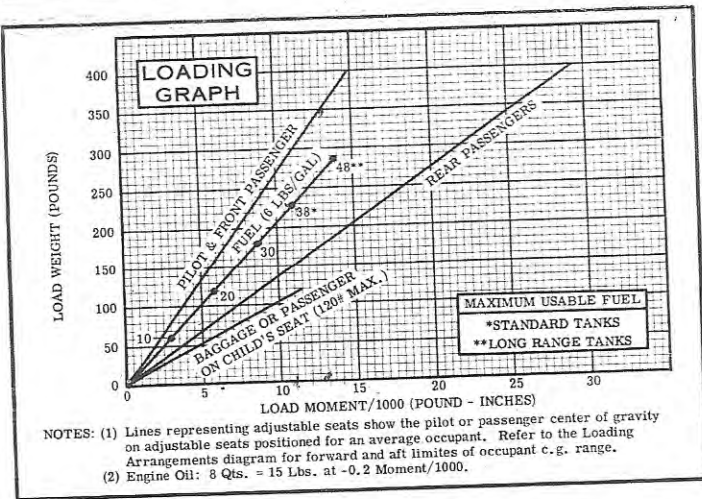
When computing aircraft loading requirements, refer to the Weight and Balance Data sheet in the aircraft file for the licensed empty weight, arm and moment of the aircraft as delivered from the factory. (If alterations have been made to the aircraft, refer to form FAA 337 for the latest empty weight, arm and moment.) The aircraft weight and balance may then be determined using the Loading Graph and Center of Gravity Moment Envelope as indicated in the Sample Loading Problems below.

SAMPLE LOADING PROBLEM (NORMAL CATEGORY)	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb. -ins. /1000)	Weight (lbs.)	Moment (lb. -ins. /1000)
1. Licensed Empty Weight (Sample Airplane) . . .	1364	51.7		
2. Oil (8 qts. - Full oil may be assumed for all flights)	15	-0.2	15	-0.2
3. Fuel (Standard - 38 Gal at 6" Gal)	228	10.9		
Fuel (Long Range - 48 Gal at 6" Gal)				
4. Pilot and Front Passenger (Station 34 to 46) . . .	340	12.6		
5. Rear Passengers	340	24.8		
6. Baggage (or Passenger on Child's Seat) (Station 82 to 108)	13	1.2		
7. TOTAL WEIGHT AND MOMENT	2300	101.0		

8. Locate this point (2300 at 101.0) on the Normal Category center of gravity moment envelope, and since this point falls within the envelope, the loading is acceptable.

SAMPLE LOADING PROBLEM (UTILITY CATEGORY)	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb. -ins. /1000)	Weight (lbs.)	Moment (lb. -ins. /1000)
1. Licensed Empty Weight (Sample Airplane) . . .	1364	51.7		
2. Oil (8 qts. - Full oil may be assumed for all flights)	15	-0.2	15	-0.2
3. Fuel (Standard - 38 Gal at 6" Gal)	228	10.9		
Fuel (Long Range - 48 Gal at 6" Gal)				
4. Pilot and Front Passenger (Station 34 to 46) . . .	340	12.6		
5. TOTAL WEIGHT AND MOMENT	1947	75.0		

6. Locate this point (1947 at 75.0) on the Utility Category center of gravity moment envelope, and since this point falls within the envelope, the loading is acceptable.



WEIGHT AND BALANCE REVISION

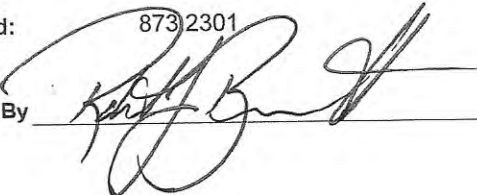
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EQUIPMENT CHANGE

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Garmin G5 Electronic Flight Instrument with battery	0.83	15.00	12.45
EQUIPMENT REMOVED			
RC Allen RCA22-7 Vacuum attitude indicator	-2.25	12.50	-28.13
NEW TOTALS	1426.77	39.17	55886.15

* ITEM NUMBERS WHEN LISTED IN THE PERTINENT AIRCRAFT SPECIFICATION MAY BE USED IN LIEU OF "ITEM, MAKE, AND MODEL"

Gross Weight: 2300.00
 New empty weight: 1426.77
 New Center of gravity: 39.17
 Moment: 55886.15
 Useful load: 873.2301



Prepared By _____ Robert J Burnett A&P 3633440 Date 11/30/2017

WEIGHT AND BALANCE REVISION

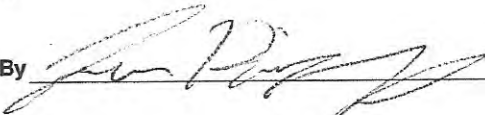
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SERIAL#: 17259654
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EQUIPMENT CHANGE

Computing New C.G.			
Item, Make and Model *	Weight	Arm	Moment
Previous information from W&B dated 11/30/2017	1426.77	39.17	55886.58
EQUIPMENT ADDED			
Rosen Sun Visors	2.00	32.80	65.60
EQUIPMENT REMOVED			
Factory installed sun visors	-0.90	32.80	-29.52
NEW TOTALS	1427.87	39.17	55922.66

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Gross Weight: 2300.00
New empty weight: 1427.87
New Center of gravity: 39.17
Moment: 55922.66
Useful load: 872.1299

Prepared By  **Lance Bickford A & P 3881041** **Date** 04/11/2018

WEIGHT AND BALANCE REVISION

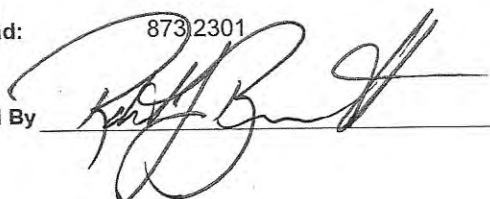
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Garmin GI260 AOA Display	0.27	11.50	3.11
Garmin G5 Electronic Flight Instrument with battery	0.83	15.00	12.45
EQUIPMENT REMOVED			
RC Allen RCA22-7 Vacuum attitude indicator	-2.25	12.50	-28.13
<i>Suppressed 4/11/18</i>			
NEW TOTALS	1426.77	39.17	55886.15

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 New empty weight: 1426.77
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 Useful load: 873.2301

Prepared By 

Robert J Burnett A&P 3633440 Date 11/30/2017

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NEW TOTALS	1427.11	39.16	55890.61

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Gross Weight: 2300.00
 New empty weight: 1427.11
 New Center of gravity: 39.16
 Moment: 55890.61
 Useful load: 872.89

Prepared By *Nicholas DiPeso* Nicholas DiPeso A&P 2704069 Date 1/19/2017

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3. Fuel (Standard - 38 Gal at 6" Gal) Fuel (Long Range - 48 Gal at 6" Gal)	228	10.9		
4. Pilot and Front Passenger (Station 34 to 46)	340	12.6		
5. Rear Passengers	340	24.8		
6. Baggage for Passenger on Child's Seat (Station 92 to 108)	13	1.2		
7. TOTAL WEIGHT AND MOMENT	2360	101.0		

8. Locate this point (2360 at 101.0) on the Normal Category center of gravity moment envelope, and since this point falls within the envelope, the loading is acceptable.

SAMPLE LOADING PROBLEM (UTILITY CATEGORY)	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (lbs.)	Moment (lb.-ins./1000)	Weight (lbs.)	Moment (lb.-ins./1000)
1. Licensed Empty Weight (Sample Airplane) . . .	1364	51.7		
2. Oil (5 qts. - Full oil may be assumed for all flights)	15	-0.2	15	-0.2
3. Fuel (Standard - 38 Gal at 6" Gal) Fuel (Long Range - 48 Gal at 6" Gal)	228	10.9		
4. Pilot and Front Passenger (Station 34 to 46)	340	12.6		
5. TOTAL WEIGHT AND MOMENT	1947	75.0		

6. Locate this point (1947 at 75.0) on the Utility Category center of gravity moment envelope, and since this point falls within the envelope, the loading is acceptable.

