

N207RA

2014 Cessna 208B

Weight & Balance

Aircraft S/N: 208B-5098

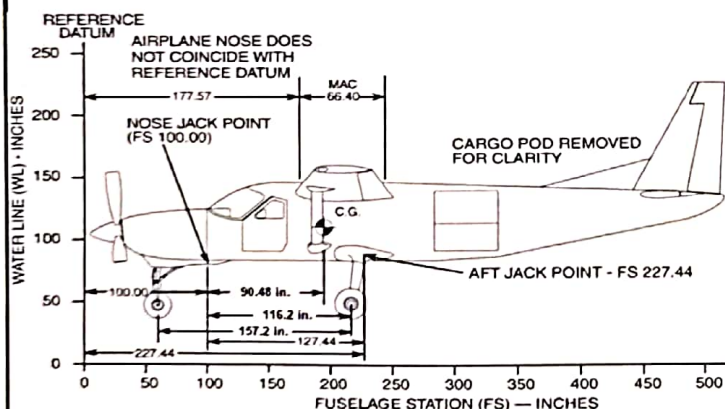


Prepared by the worldwide aviation specialists at RidgeAire, Inc.

AIRCRAFT WEIGHT AND BALANCE REPORT

CLIENT: AIR JUAN AVIATION, INC.	AIRCRAFT MSN: 208B5098
AIRCRAFT MAKE & MODEL: TEXTRON AVIATION INC. / CESSNA GRAND CARAVAN EX 208B	WORK ORDER NO: AHAI21-W&B-0003
AIRCRAFT REGISTRATION NO: RP-C1087	WEIGHED BY: CHRISTOPHER RYAN C. SANTIAGO
DATE WEIGHED: September 15, 2021	PLACE WEIGHED: SUBIC BAY INTERNATIONAL AIRPORT

REACTION	SCALE READINGS (lbs)	TARE (lbs)	Net Weight (lbs)	ARM (in.)	MOMENT (lbs-in.)
LEFT MAIN	2,072.50	0.00	2,072.50	116.20	500,647.70
RIGHT MAIN	2,236.00	0.00	2,236.00		
SUB-TOTAL MAIN	4,308.50	0.00	4,308.50		
NOSE/REAR	864.00	0.00	864.00	-41.00	-35,424.00
TOTAL WEIGHT (AS WEIGHED)	5,172.50	0.00	5,172.50	189.94	465,223.70



REMARKS:

- Aircraft was weighed in level flight position using W/S AWS-9k-REM platform scales.
- Aircraft condition when weighed:
 - Clean
 - Fuel tanks are empty
 - Oil is in operational quantity, 29 lbs.
 - 13 Life vests installed on aircraft
 - Additional two single seats in most aft row. (Refer to the CAAP Approved Letter dated January 25, 2018).
- Weight and tare reading is the average of two (2) trial readings.
- C.G. at basic empty weight 5196.60 (lbs) = 190.48 in. from RDL.
- References:
 - Cessna Model 208B POH (Weight and Balance Section)
 - Maintenance Manual (Leveling and Weighing Chapter)
 - TCDS A37CE Rev. 22 October 31, 2017
 - Previous Weight and Balance Report
 - Equipment List
- Tools List:
 - Spirit Levels
 - Tape Measure
 - Chalk Line
 - Plumb Bob
- Reference Datum during weighing is nose jacking point/front end firewall. Final C.G. Arm is computed C.G. Arm plus 100 in.:
C.G. = 90.48184 in. + 100 in. = 190.48184 in.

ITEMS	NET WEIGHT (lbs)	ARM (in.)	MOMENT (lbs-in.)
TOTAL WEIGHT (AS WEIGHED)	5,172.50	189.94	465,223.70
TOTAL ITEMS WEIGHED BUT NOT PART OF BASIC WT. (-) (DETAILS PAGE 2, ITEM A)	0.00	0.00	0.00
TOTAL ITEMS WEIGHT NOT IN AIRCRAFT WHEN WEIGHED (+) (DETAILS PAGE 2, ITEM B)	24.10	206.40	4,974.24
BASIC EMPTY WEIGHT	5,196.60	190.48	470,197.94

WEIGHED BY:

CHRISTOPHER RYAN C. SANTIAGO
A&P LICENSE NO. 122882
PRINTED NAME & SIGNATURE

AHAI Authorized Weighing Personnel
POSITION

15-Sep-21
DATE

CERTIFIED CORRECT BY:

ENGR. MAT JONEL D. BONDOC
PRC LICENSE NO. 0001804
PRINTED NAME & SIGNATURE

Aeronautical Engineer
POSITION

15-Sep-21
DATE



Hangar 3, OMNI
Aviation Complex, M.A.
Roxas Highway,
Clarkfield, CFZ,
Pampanga, Philippines,
2009

CAAP AMO Cert No: 151
16

ENGINEERING
DEPARTMENT

Control No:
2021-09-W&B-01018

REV DATE: 30-Oct-20

REV NO: 1

AIRCRAFT WEIGHT AND BALANCE REPORT

ITEM A: ITEMS WEIGHED BUT NOT PART OF BASIC WEIGHT	NET WEIGHT (lbs)	ARM (in.)	MOMENT (lbs-in.)
No Items Weighed	0.00	0.00	0.00
TOTAL	0.00	0.00	0.00
ITEM B: ITEMS WEIGHT NOT IN THE AIRCRAFT WHEN WEIGHED	NET WEIGHT (lbs)	ARM (in.)	MOMENT (lbs-in.)
Unusable Fuel	24.10	206.40	4974.24
TOTAL	24.10	206.40	4974.24



Hangar 3, OMNI
Aviation Complex, M.A.
Roxas Highway,
Clarkfield, CFZ,
Pampanga, Philippines,
2009

CAAP AMO Cert No:
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AIRCRAFT WEIGHT AND BALANCE REPORT

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AIRCRAFT MAKE & MODEL: TEXTRON AVIATION INC. / CESSNA GRAND CARAVAN EX 208B	WORK ORDER NO: AHAI21-W&B-0003
AIRCRAFT REGISTRATION NO: RP-C1087	WEIGHED BY: CHRISTOPHER RYAN C. SANTIAGO
DATE WEIGHED: September 15, 2021	PLACE WEIGHED: SUBIC BAY INTERNATIONAL AIRPORT

	1st Reading	2nd Reading	3rd Reading	Average
Left Main	2069	2076	-	2072.50
Right Main	2237	2235	-	2236.00
Sub-total Main	4,306	4,311	-	4308.50
Nose/Rear	862	866	-	864.00
Total Weight	5,168	5,177	-	5172.50

Weighed By:	Certified Correct By:	Witnessed By:
 CHRISTOPHER RYAN C. SANTIAGO CAAP LICENSE NO. 122882 SIGNATURE OVER PRINTED NAME	 ENGR. MAT JONEL D. BONDOC PRO LICENSE NO. 0001804 SIGNATURE OVER PRINTED NAME	 Engr. Gino S. Cruz SIGNATURE OVER PRINTED NAME
AHAI Authorized Weighing Personnel	Aeronautical Engineer	CAAP Inspector



APPROVED MAINTENANCE ORGANIZATION 32-97

Hangar 7224 Clark International Airport
Clark Freeport Zone, Pampanga, Philippines 2023
Tel No.: (045) 599-2384 / Fax No.: (045) 599-2383

Form No.: DT-F-ENG-11
Revision No.: 00
Revision Date: 08 Feb 2017

AWB 008-18

AIRCRAFT WEIGHT AND BALANCE REPORT

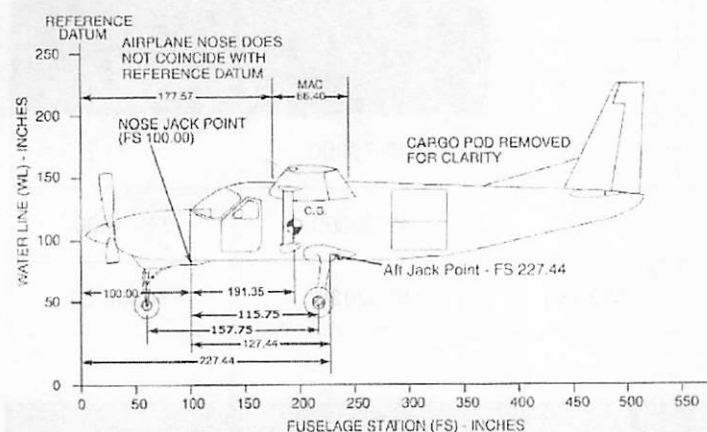
WEIGHING REPORT

CLIENT/OWNER:	AIR JUAN	WORK ORDER NO.:	S18523
MAKE & MODEL:	CESSNA CARAVAN 208B	WEIGHED BY:	ENGR. JENNIFER R. LINGAD
REGISTRY MARK:	RP-C1087	DATE WEIGHED:	01 OCTOBER 2018
SERIAL NUMBER:	208B5098	PLACE WEIGHED:	A.C.I. HANGAR, SUBIC BAY

REACTIONS	SCALE READINGS (lb)	TARE (lb)	NET WEIGHT (lb)	ARM (in.)	MOMENT (lb-in.)
LEFT MAIN	2137.00	0.00	2137.00		
RIGHT MAIN	2262.00	0.00	2262.00		
SUB-TOTAL MAIN	4399.00	0.00	4399.00	115.7500	509184.25
NOSE	825.67	0.00	825.67	-42.0000	-34678.00
TOTAL WEIGHT (As Weighed)	5224.67	0.00	5224.67	190.82039	474506.25

ITEMS	NET WEIGHT (lb)	ARM (in.)	MOMENT (lb-in.)
TOTAL WEIGHT (as weighed)	5224.67	190.82039	474506.25
TOTAL WEIGHT OF ITEMS WEIGHED BUT NOT PART OF OPERATING EMPTY WEIGHT (-) (Details in attached COMPUTATIONS, Item II)	0.00	-	0.00
TOTAL WEIGHT OF ITEMS NOT WEIGHED BUT PART OF OPERATING EMPTY WEIGHT (+) (Details in attached COMPUTATIONS, Item III)	24.10	-	4974.24
OTHERS (+/-) (Details in attached COMPUTATIONS, Item IV)	-	-	0.00
NEW OPERATING EMPTY WEIGHT AND C.G.	5248.77	191.35108	479480.49

ILLUSTRATION



REMARKS:

- Aircraft condition when weighed:
 - Defueled up to undrainable fuel condition.
 - Oil tanks in normal operating level.
 - Clean and dry.
 - All access doors and cowlings installed – all doors closed.
 - Additional one double seat and single seat in most aft row.
- Weight reading is the average of three (3) trial readings.
- C.G. at Operating Empty Weight (5248.77 lb) – 191.35108 in. from datum.
- Empty Weight CG Range: Refer to approved POH.
- Weighing Equipment Used: GEC PN: AN60-6; Calibration due: 26 Oct 2018.
- References Used:
 - Cessna 208B Pilots Operating Handbook.
 - Previous Weight and Balance dated 17 Jun 2017.
 - RP-C1087 Weight and Balance Equipment Checklist.
 - Type Certificate Data Sheet No. A37CE Cessna 208B R.21 dated last 29 July 2015
- EEL items complete. 15 life vests on aircraft.
- Reference Datum during weighing is nose jacking point/front end firewall. Final C.G. arm is computed C.G. arm plus 100 in.:

C.G. = 91.35108 in. + 100 in. = 191.35108 in.

CERTIFIED BY

Engr. Jennifer R. Lingad / Lic. 1429

(Signature over printed name and license no.)
Weighing Engineer

OBSERVER (If applicable)

Observer 1: Engr. Kevin P. Pangilinan
(Signature over printed name)Observer 2: Engr. Dan Keith M. Duad
(Signature over printed name)

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Copy 2: Continuous Airworthiness Section

Copy 3: CAAP – FSIS - AES



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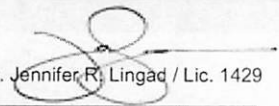
AIRCRAFT WEIGHT AND BALANCE REPORT

READINGS

CLIENT/OWNER:	AIR JUAN	WORK ORDER NO.:	S18523
MAKE & MODEL:	CESSNA CARAVAN 208B	WEIGHED BY:	ENGR. JENNIFER R. LINGAD
REGISTRY MARK:	RP-C1087	DATE WEIGHED:	01 OCTOBER 2018
SERIAL NUMBER:	208B5098	PLACE WEIGHED:	A.C.I. HANGAR, SUBIC BAY

REACTION	1 ST READING (lb)	2 ND READING (lb)	3 RD READING (lb)	AVERAGE (lb)
LEFT MAIN	2138.00	2139.00	2134.00	2137.00
RIGHT MAIN	2261.00	2263.00	2262.00	2262.00
SUB-TOTAL MAIN	4399.00	4402.00	4396.00	4399.00
NOSE	827.00	825.00	825.00	825.67
TOTAL WEIGHT (AS WEIGHED)	5226.00	5227.00	5221.00	5224.67

REACTION	SCALE READINGS (lb)	TARE (lb)	NET WEIGHT (lb)	ARM (in.)	MOMENT (lb · in.)
LEFT MAIN	2137.00	0.00	2137.00		
RIGHT MAIN	2262.00	0.00	2262.00		
SUB-TOTAL MAIN	4399.00	0.00	4399.00	115.75000	509184.25
NOSE	825.67	0.00	825.67	-42.00000	-34678.00
TOTAL WEIGHT	5224.67	0.00	5224.67	90.82039	474506.25

CERTIFIED BY	OBSERVER (If applicable)
 Engr. Jennifer R. Lingad / Lic. 1429 (Signature over printed name and license no.) Weighing Engineer	Observer 1:  (Signature over printed name) Observer 2:  (Signature over printed name)

DISTRIBUTION COPY: Copy 1: Client/Owner Copy 2: Continuous Airworthiness Section Copy 3: CAAP - FSIS - AES



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AIRCRAFT WEIGHT AND BALANCE REPORT

COMPUTATIONS

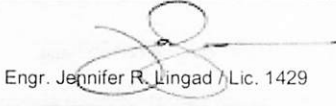
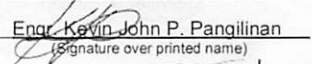
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MAKE & MODEL: CESSNA CARAVAN 208B WEIGHED BY: ENGR. JENNIFER R. LINGAD
REGISTRY MARK: RP-C1087 DATE WEIGHED: 01 OCTOBER 2018
SERIAL NUMBER: 208B5098 PLACE WEIGHED: A.C.I. HANGAR, SUBIC BAY

ITEM	WEIGHT (lb)	ARM (in.)	MOMENT (in-lb)
I. Total Weight (As weighed)	5224.67	90.82	474506.25
II. Items Weighed but not part of Operating Empty Weight			
a) None	-	-	-
TOTAL:	0.00	-	0.00
III. Items not Weighed but part of Operating Empty Weight			
a) Drainable Unusable Fuel (Unusable - Trapped)	24.10	206.40	4974.24
TOTAL:	24.10	-	4974.24
IV. Others			
a) None	-	-	-
TOTAL:	-	-	0.00
FINAL OPERATING EMPTY WEIGHT	5248.77	91.35108	479480.49

IMPORTANT NOTES:

Position of the Forward Locking Pin of each passenger seat is as follows:
First Row Passenger Seats Forward Locking Pin located at **163.5 in.** from datum line.
The succeeding rows measure **36.0 in.** from forward locking pin to forward locking pin, one row to another.

Operating Empty Weight C.G. is 20.75% of M.A.C.

CERTIFIED BY	OBSERVER (If applicable)
 Engr. Jennifer R. Lingad / Lic. 1429 (Signature over printed name and license no.) Weighing Engineer	Observer 1:  Engr. Kevin John P. Pangilinan (Signature over printed name) Observer 2:  Engr. Dan Keith M. Bood (Signature over printed name)

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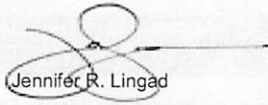
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DESCRIPTION	STATUS	REMARKS
1. FUEL	DRAINED	DEFUELED UP TO DRAINABLE FUEL CONDITION
2. OIL	OPERATING LEVEL	NIL
3. EMERGENCY		
A. FIRE EXTINGUISHER	INSTALLED	
B. MEDICAL KIT	INSTALLED	
C. ELT	INSTALLED	
D. LIFEVEST	INSTALLED	
E. MEGAPHONE	N/A	
F. PBE	N/A	
4. BATTERY	INSTALLED	NIL
5. AVIONICS EQUIPMENT	COMPLETE	NIL
6. TRIM		
A. SIDE PANELS	INSTALLED	
B. WINDOWS	INSTALLED	
C. CARPETS	INSTALLED	
7. CONTROL SURFACES	NEUTRAL POSITION	NIL
8. FLAPS	FULLY RETRACTED	NIL
9. AIRCRAFT CONDITION	CLEAN	NIL
10. WATER/ METHANOL	N/A	NIL
11. HYDRAULIC	NORMAL OPERATING LEVEL	NIL
12. PASSENGER SEAT WITH SAFETY BELTS	INSTALLED	NIL
CHECKED & INSPECTED BY:		CONFIRMED BY:
 Jennifer R. Lingad 01 Oct 2018 SIGNATURE OVER PRINTED NAME DATE		 SIGNATURE OVER PRINTED NAME DATE
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Republic of the Philippines
CIVIL AVIATION AUTHORITY OF THE PHILIPPINES

January 25, 2018

Mr. JOHN ANTHONY V. GUTIERREZ

President

Air Juan Aviation, Inc.

Suite 501, 5th Floor, C2 Building, Bonifacio High Street Centra
Global City, Philippines 1634

Dear Mr. Gutierrez:

This is in response to your December 21, 2017 letter concerning the applicability to your operations of Part 8, Subsection 8.11.1.8 (b) of the PCAR.

As stated in your letter, it is your understanding that the aforementioned "provision was placed in the PCAR in consideration of the pressurized aircraft environment that standardizes the number of flights that can be flown by a pilot in commercial air transportation during any period of 18 consecutive hours."

It is also your submission that "this may not necessarily be applicable for non-pressurized aircraft or for those aircraft that operates only from sunrise to sunset with short flight distances. It is for this reason that PCAR also allows in Part 8.11.1.1(b) for each operator to formulate rules to limit flight time, flight duty periods, duty periods and rest periods for all its crew members. In the same light, the PCAR also allows special flight duty schemes for all crew members as indicated in Part 8.11.1.6 wherein the operator may elect to apply the flight crew member flight duty and rest requirements to cabin crew members. We believe that the PCAR itself allows for special flight duty scheme given the special circumstances and considerations."

Further, you averred that "a pilot which operate an aircraft under VFR conditions from sunrise to sunset may exceed 7 flights during any period of 18 consecutive hours provided that the operator does not violate the duty and rest periods as provided for in the PCAR. In this scenario, a pilot is reassured that he/she has an adequate rest period and at the same time the commercial air operator maximizes the capability of the pilot to fly in daytime and VFR conditions."

Based on the foregoing, you request that your pilots be given authority to fly more than 7 flights during any period of 18 consecutive hours, provided all the conditions in PCAR 8.11.1.3 are strictly complied with.

Subsection 8.11.1.8 (b), Part 8 states

8.11.1.8 FLIGHT TIME, DUTY AND REST PERIODS: FLIGHT CREW MEMBERS