

**AIRCRAFT WEIGHT AND C.G DETERMINATION**

REPORT NO : 01/WB/SNO/IV/2022  
 DATE : 04 APRIL 2022

AIRCRAFT REGISTRATION : PK-SNO  
 AIRCRAFT TYPE : C208B  
 AIRCRAFT SERIAL NUMBER : 208B-2375  
 PROPERTY OF : PT. SMART CAKRAWALA AVIATION  
 PLACE OF WEIGHING : NABIRE  
 REASON OF WEIGHING : PERIODIC INSPECTION  
 CONFIGURATION : **PAX**  
 PERFORMED BY : AGUS SULAEAMAN

SIGNED: 

DATE: 04/04/2022

CHECKED BY : YANUAR ABDUL FATAH

SIGNED: 

DATE: 04/04/2022

**RESULTS**

<b>EMPTY WEIGHT</b>	<b>: 5283.1</b>
<b>EMPTY C.G FROM DATTUM LINE</b>	<b>: 191.87</b>
<b>INDEX MAC %</b>	<b>: 21.43</b>
<b>VALID UNTIL</b>	<b>: APRIL 2027</b>

**WEIGHING EQUIPMENT**

PART NUMBER	: TA4
SERIAL NUMBER	: 0730M310245
VALIDATION	: AUGUST 2022

APPROVED BY:

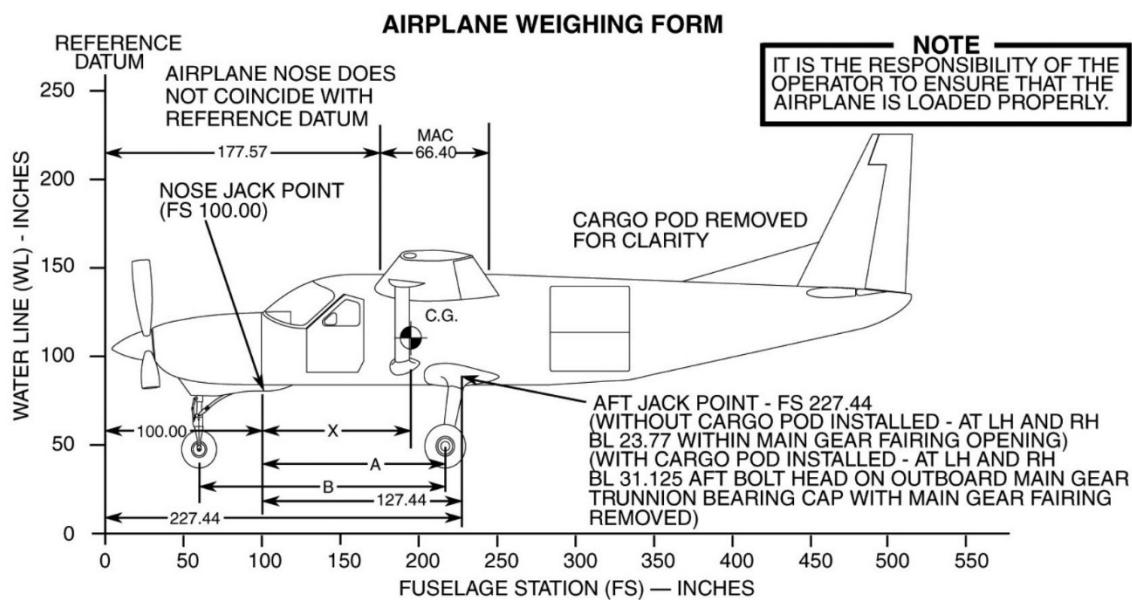


YANUAR ABDUL FATAH  
 CHIEF INSPECTOR

PK-SNO / 208B2375  
NABIRE, 04 APRIL 2022  
AIRPLANE WEIGHING FORM

CESSNA  
MODEL 208B G1000

A30620



#### LOCATING CG WITH AIRPLANE ON LANDING GEAR

FORMULA for Longitudinal CG

$$(X) = (A) - \frac{(\text{Nose Gear Net Weight})(\text{B})}{\text{Nose and Main Landing Gear Weight Totaled}} = (\text{Inches})$$

CG Arm of Airplane = 100 + (X) = (Inches Aft of Datum)

#### MEASURING A AND B

MEASURE A AND B PER PILOT'S OPERATING HANDBOOK INSTRUCTIONS TO ASSIST IN LOCATING CG WITH AIRPLANE WEIGHED ON LANDING GEAR

#### LOCATING CG WITH AIRPLANE ON JACK PADS

FORMULA for Longitudinal CG

$$127.44 X$$

$$\text{CG Arm of Airplane} = 227.44 - \frac{(\text{Nose Jack Point Net Weight})(\text{Aft of Datum})}{\text{Nose and Aft Jack Point Weight Totaled}} = (\text{Inches Aft of Datum})$$

#### LEVELING PROVISIONS

LONGITUDINAL - LEFT SIDE OF FUSELAGE AT FS 239.00 & 272.00  
LATERAL - SEAT RAILS AFT OF PILOT AND FRONT PASSENGER SEATS

#### AIRPLANE AS WEIGHED TABLE

POSITION	SCALE READING	SCALE DRIFT	TARE	NET WEIGHT
LEFT SIDE	2214	0	0	2214
RIGHT SIDE	2213	0	0	2213
NOSE	832	0	0	832
AIRPLANE TOTAL AS WEIGHED				5259

#### BASIC EMPTY WEIGHT AND CENTER-OF-GRAVITY TABLE

ITEM	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 (INCH-POUNDS/100)
AIRPLANE (CALCULATED OR AS WEIGHED) (INCLUDES ALL UNDRAINABLE FLUIDS AND FULL OIL)	5259	191.8	1008.67
DRAINABLE UNUSABLE FUEL AT 6.7 POUNDS PER GALLON S/N 208B0001 THRU 208B0050 NOT INCLUDED WITH S/N 208B0051 S/N 208B0051 THRU 208B0090 M/C 10001 LWHL SK200-50 And S/N 208B0090 And On	24.1	206.4	5.0
BASIC EMPTY WEIGHT	5283.1	191.87	1013.67

**TABEL1**

BASIC ITEM NOT INCLUDED WHEN WEIGHING	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 INCH POUNDS
<b>TOTAL</b>			

**TABEL 2**

DESCRIPTION OF ACTION PERFORMED	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 INCH POUNDS
<b>TOTAL</b>			

### LOCATING PERCENT MAC

$$\text{CG Percent MAC} = \frac{(\text{CG Arm of Airplane}) - 177.57}{0.6640}$$

$$= \frac{191.8 - 177.57}{0.6640}$$

$$= 21.43\%$$



## AIRCRAFT WEIGHT & BALANCE

### PRIOR TO WEIGHT AND BALANCE CHECK

**AIRCRAFT TYPE** : CESSNA C208B GRAND CARAVAN

**AIRCRAFT REGISTRATION** : PK-SNO

**AIRCRAFT SERIAL NUMBER** : 208B-2375

**DATE OF WEIGHING** : 04 APRIL 2022

NO.	DESCRIPTION	APPL	CHECK	REMARKS
<b>A</b>	<b>STANDARD ITEMS</b>			
1	All fuel tank EMPTY or recorded / FULL	√	Empty	-
2	All engine oil tanks EMPTY or recorded / FULL	√	Full	-
3	All others oil tanks FULL (included Propeller, Starters, Gearbox and Air Cycle)	√	Full	-
4	Hydraulic tanks FULL	√	Full	-
<b>B</b>	<b>STANDARD EQUIPMENTS</b>			
1	Technical supply or Flight Kits	x	N/A	-
2	Aircraft Books, Manuals and Papers	x	1 Bag	-
3	AXE	x	1 EA	-
4	Fire Extinguisher	√	1 EA	-
5	First Aid Kit	x	1 Box	-
6	Life Vests	x	11 EA	-
7	Life Raft	x	N/A	-
8	Survival Kit	x	N/A	-
9	Single Seat	√	3 ea	30.86 lb/each
10	Bench	√	3 EA	59.52 lb/each
11	AFT Couch	√	2 PL	34.89 lb