

AIRCRAFT WEIGHT AND C.G DETERMINATION

REPORT NO : 02/WB/SNO/IV/2022
 DATE : 04 APRIL 2022

AIRCRAFT REGISTRATION	:	PK-SNO
AIRCRAFT TYPE	:	C 208B
AIRCRAFT SERIAL NUMBER	:	208B-2375
PROPERTY OF	:	PT. SMART CAKRAWALA AVIATION
PLACE OF WEIGHING	:	NABIRE
REASON OF WEIGHING	:	PERIODIC INSPECTION
CONFIGURATION	:	CARGO
PERFORMED BY	:	AGUS SULAEAMAN
SIGNED:		
		DATE: 04/04/2022
CHECKED BY	:	YANUAR ABDUL FATAH
SIGNED:		
		DATE: 04/04/2022

RESULTS

EMPTY WEIGHT	: 4977.07
EMPTY C.G FROM DATTUM LINE	: 188.95
INDEX MAC %	: 17.13 %
VALID UNTIL	: APRIL 2027

WEIGHING EQUIPMENT

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

APPROVED BY:



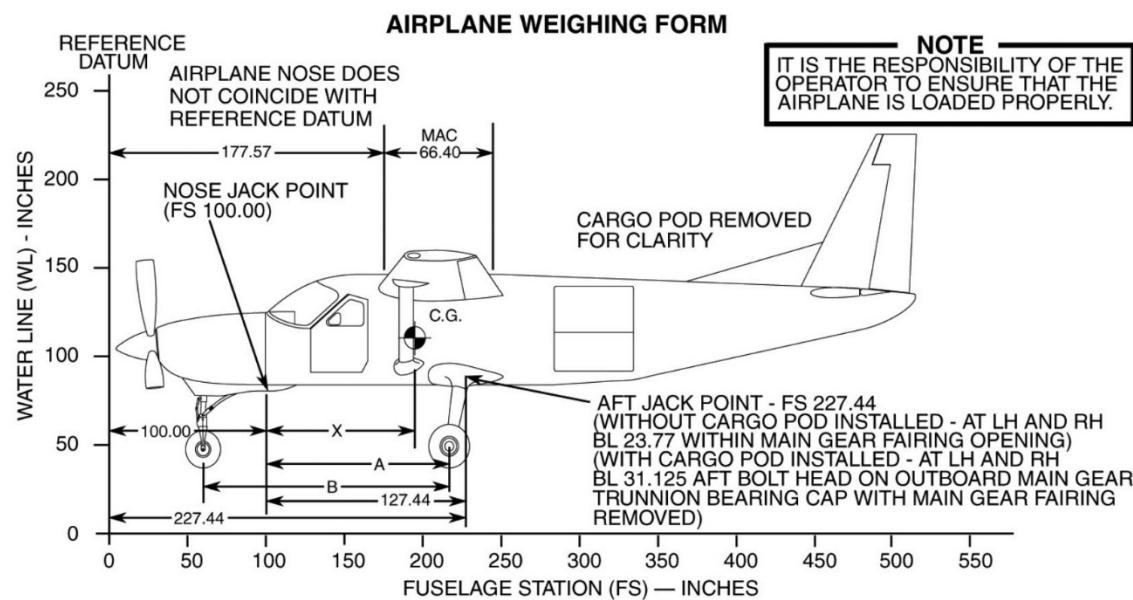
YANUAR ABDUL FATAH
 CHIEF INSPECTOR

PK-SNO / 208B2375
NABIRE, 04 APRIL 2022

CESSNA
MODEL 208B G1000

AIRPLANE WEIGHING FORM

A30620



LOCATING CG WITH AIRPLANE ON LANDING GEAR

FORMULA for Longitudinal CG

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

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

$$\text{CG Arm of Airplane} = 227.44 - \frac{127.44 X}{\frac{(\text{Nose Jack Point Net Weight})(\text{A})}{\text{Nose and Aft Jack Point Weight Totaled}}} = (\text{ }) \text{ Inches Aft of Datum}$$

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

LOCATING PERCENT MAC

FORMULA for Percent MAC

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

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 C/N 208B0001 THRU 208B0055 NOT INCLUDED WITH C/N 208B0056 & UP C/N 208B0056 THRU 208B0099 M-175 LMWL C/N 208B0056 & UP And S/N 208B0090 And On	24.1	206.4	5.0
BASIC EMPTY WEIGHT	5283.1	191.87	1013.67



AIRCRAFT WEIGHT & BALANCE

TABEL1

DESCRIPTION OF ACTION PERFORMED	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 INCH POUNDS
SINGLE SEAT ASSY 2 ND ROW-LH REMOVED	30.86	177.55	5.47
SINGLE SEAT ASSY 3 ND ROW-LH REMOVED	30.86	213.55	6.59
SINGLE SEAT ASSY 4 ND ROW-LH REMOVED	30.86	249.55	7.70
BENCH ASSY 2 ND ROW-RH REMOVED	59.52	195.69	11.64
BENCH ASSY 3 ND ROW-RH REMOVED	59.52	231.69	13.79
BENCH ASSY 4 ND ROW-RH REMOVED	59.52	267.69	15.93
AFT COUCH, 2 PL REMOVED	34.89	347.14	12.11
TOTAL	306.03	239.29	73.23

TABEL 2

AIRCRAFT WEIGHING REPORT	WEIGHT (POUNDS)	CG ARM (INCHES)	MOMENT/1000 INCH POUNDS
AIRPLANE (CALCULATED OR AS WEIGHED) (INCLUDES ALL UNDRAINABLE FLUIDS AND FULL OIL) INCLUDED DRAINABLE UNUSABLE FUEL AT 6.75 POUNDS PER GALON	5283.1	191.87	1013.67
WEIGHT FROM TABLE 1 (-)	306.03	239.29	73.23
TOTAL	4977.07	188.95	940.44

LOCATING PERCENT MAC

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

$$= \frac{188.95 - 177.57}{0.6640}$$

$$= 17.13 \%$$



AIRCRAFT WEIGHT & BALANCE

PRIOR TO WEIGHT AND BALANCE CHECK				
AIRCRAFT DATA				
AIRCRAFT TYPE	:	CESSNA C 208B CARAVAN		
AIRCRAFT REGISTRATION	:	PK-SNO		
AIRCRAFT SERIAL NUMBER	:	208B-2375		
DATE OF WEIGHING	:	04 APRIL 2022		
NO.	DESCRIPTION	APPL	CHECK	REMARKS
A	STANDARD ITEMS			
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	STANDARD EQUIPMENTS			
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