

AIRCRAFT WEIGHT AND C.G DETERMINATION

REPORT NO : 004/WB/I/2020

DATE : 9th January 2020

AIRCRAFT REGISTRATION : PK-SNV
 AIRCRAFT TYPE : CESSNA C208B CARAVAN EX
 AIRCRAFT SERIAL NUMBER : 208B5551
 PROPERTY OF : PT. SMART CAKRAWALA AVIATION
 PLACE OF WEIGHING : WICHITA
 REASON OF WEIGHING : APE STOL MOD AND ADDITONAL EQUIPMENT
 CONFIGURATION : CARGO
 PERFORMED BY : YINGLING AIRCRAFT, INC.
 SIGNED: DATE: 19/12/2019
 CHECKED BY : YINGLING AIRCRAFT, INC
 SIGNED: DATE: 19/12/2019

RESULTS

EMPTY WEIGHT	: 4902.56 LBS
C.G ARM OF AIRPLANE	: 188.77 IN
CG PERCENT MAC %	: 18.27 (PERCENT MAC)
VALID UNTIL	: 18 DECEMBER 2024

WEIGHING EQUIPMENT

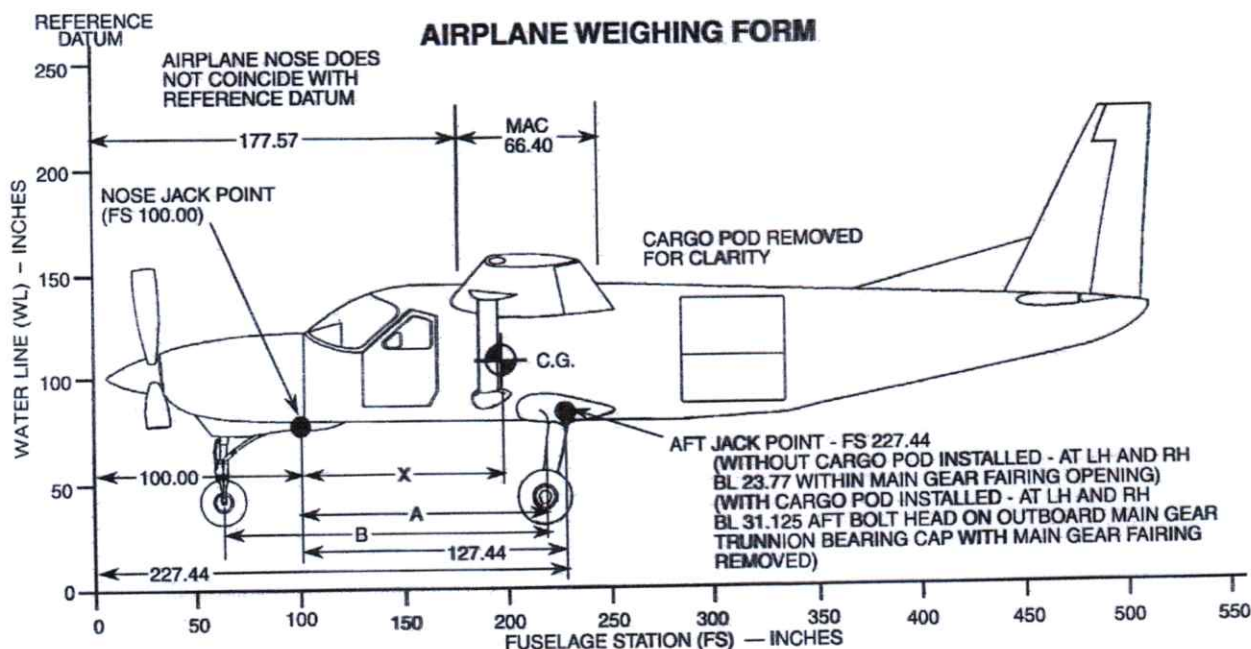
PART NUMBER	: UNK
SERIAL NUMBER	: UNK
VALIDATION	: UNK

APPROVED BY:



Ilham Chairi
 Chief Inspector

AIRCRAFT WEIGHT & BALANCE



LOCATING CG WITH AIRPLANE ON JACK PADS

FORMULA for longitudinal CG

$$\text{CG Arm of Airplane} = 227.44 - \frac{127.44 \times (\text{Nose Jack Pont Net Weight}) (1505)}{\text{Nose and Aft Jack Point Weight Totalled} (5354)} = (191.62) \text{ Inches}$$

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 PERCENT MAC

FORMULA for Percent MAC

$$\begin{aligned} \text{CG Percent MAC} &= \frac{\text{CG Arm of Airplane} (188.68) - 177.57}{0.6640} \\ &= 18.27\% \end{aligned}$$

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	1865	-	-	1865
RIGHT SIDE	1984	-	-	1984
NOSE	1505	-	-	1505
AIRPLANE TOTAL AS WEIGHT				5354

AIRCRAFT WEIGHT & BALANCE

PRIOR TO WEIGHT AND BALANCE CHECK				
AIRCRAFT TYPE : CESSNA C208B EX CARAVAN AIRCRAFT REGISTRATION : PK-SNV DATE OF WEIGHING : 19 th DECEMBER 2019				
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	-