

Revised Weight and Balance

Aircraft Make: **Cessna**
 Aircraft Model: **T182T**
 Serial Number: **T18208484**
 Registration No.: **N223JM**

Datum: Firewall

Item	Weight	ARM	Moment
Old empty weight as of 7/19/19	2115.54	37.66	79662.06
Added Kelly AC STC#SA02006CH	54.89	124.24	6819.05
New Empty Weight	2170.43	39.85	86481.1

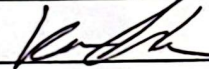
Maximum Take-Off Weight: 3110.0
 Maximum Ramp Weight: 3110.0
 Useful Load: 939.6

Prepared By: Kane Clark

Authorization Number:

AP4498742

Signed:



Date:

December 16, 2021

WEIGHT & BALANCE AND INSTALLED EQUIPMENT DATA

CESSNA AIRCRAFT COMPANY
SINGLE ENGINE DIVISION



MODEL	SERIAL & REGISTRATION		WEIGHT	ARM	MOMENT
T182T	T18208484	N223JM	(lbs)	(in)	(lb-in)
(calculated)	STANDARD EMPTY WEIGHT		2,031.8	36.584	74,331
INSTALLED EQUIPMENT			Net Change from Standard Aircraft		
AIRSPED INDICATOR			0.0	0.000	0
ALTIMETER WITH 20 FT MARKING, DUAL WINDOW, 35000 FT			0.0	0.000	0
ATTITUDE INDICATOR			0.0	0.000	0
COMPONENTS REQUIRED FOR INFLATABLE RESTRAINT SYSTEM			0.4	53.800	22
EMERGENCY LOCATOR TRANSMITTER INSTL			0.0	0.000	0
ENGINE, LYCOMING TIO-540 AK1A			0.0	0.000	0
KAP 140 DUAL AXIS AUTOPILOT			0.0	0.000	0
OXYGEN BOTTLE INSTALLATION T1828139 AND ON			0.0	0.000	0
PROPELLER, MCCAULEY, 3-BLADE, B3D36C442/80VSB-1			0.0	0.000	0
STC SA01700LA INFLATABLE RESTRAINT SYSTEM			7.6	57.800	439
VINYL/LEATHER SEATS			2.0	61.761	124
WHEEL FAIRING INSTL			2.0	44.500	730
FIRE EXTINGUISHER INSTL			0.0	0.000	0
INTERIOR INSTL			0.0	0.000	0
AFT AVIONICS COOLING FAN			1.1	125.500	138
AVIONICS COOLING FAN			0.5	12.600	6
BLIND TURN COORDINATOR			1.0	15.500	16
EQUIPMENT REMOVED FOR NAV III			-34.4	12.600	-433
G1000 FORWARD EQUIPMENT RACK			2.2	14.000	31
GDC-74 AIR DATA COMPUTER (ADC)			1.7	11.400	19
GDL-69A XM WEATHER DATALINK RECEIVER			4.0	11.500	46
GDU-1040 MFD DISPLAY			6.4	15.000	96
GDU-1040 PFD DISPLAY			6.4	15.000	96
GEA-71 ENGINE ANALYZER			2.2	11.400	25
GIA-63 #1 COM/NAV/GPS COMPUTER			5.2	134.000	697
GIA-63 #2 COM/NAV/GPS COMPUTER			5.2	134.000	697
GMA 1347 AUDIO PANEL			1.5	14.200	21
GMU-44 MAGNETOMETER			0.3	44.000	13
GRS-77 ATTITUDE HEADING REFERENCE SYSTEM (AHRS)			2.5	134.000	335
GTX-33 TRANSPONDER			3.1	134.000	415
KA-92 GPS ANTENNA			0.3	39.000	12
MFD FAN			0.1	15.200	2
NAV III ANTENNA WIRING			3.5	44.000	154
NAV III AVIONICS WIRING			25.7	55.000	1,414
PFD FAN			0.1	13.800	1
SINGLE VACUUM PUMP			3.1	-2.200	-7
STANDBY BATTERY INSTALLATION			14.0	10.800	151
WIRING SUPPORT MODULE			0.7	12.000	8

*Superseded Feb 23 2007
WJH
ATP 250825*

The weight and balance data shown in this report are computed on the basis of Federal Administration approved procedures for establishing fleet weight averages. [Far 21.327(f)(2)]

Weighed: 12/09/2005
Printed: 01/19/2006

This list contains all installed optional equipment and avionics. All weights and arms are the installed difference from a standard equipped aircraft. For a detailed list of aircraft equipment weight and balance data, please refer to the comprehensive equipment list in the pilots operating handbook.

BASIC EMPTY WEIGHT	2,114.6	37.642	79,599
USEFUL LOAD	995.4		
MAXIMUM RAMP WEIGHT	3,110.0		
MAXIMUM TAKE-OFF WEIGHT	3,100.0		

Revised 27 Aug. 2005

Numerical values shown may be rounded from actual values. Therefore, the product of weight times arm may not equal the listed be rounded from actual values. Therefore, the product of weight times arm may not equal the listed moment.

SAMPLE LOADING PROBLEM

ITEM DESCRIPTION	WEIGHT AND MOMENT TABULATION			
	SAMPLE AIRPLANE		YOUR AIRPLANE	
	Weight (Lbs.)	Moment (Lb-ins. /1000)	Weight (Lbs.)	Moment (Lb-ins. /1000)
1. Basic Empty Weight (Use the data pertaining to your airplane as it is presently equipped. Includes unusable fuel and full oil)	2029	73.0		
2. Usable Fuel (At 6 Lbs./Gal.)				
Standard Fuel 87 Gallons Maximum	522	24.3		
Reduced Fuel (64 Gallons)				
3. Pilot and Front Passenger (FS 32 to 50)	340	12.6		
4. Rear Passengers (FS 74)	170	12.6		
Cargo - Replacing Rear Passenger Seat (FS 65 to 82)				
5. *Baggage "A" (FS 82 to 109) 120 Pounds Maximum				
*Baggage "B" (FS 109 to 124) 80 Pounds Maximum	51	5.9		
*Baggage "C" (FS 124 to 134) 80 Pounds Maximum				
6. RAMP WEIGHT AND MOMENT	3112	128.4		
7. Fuel allowance for engine start, taxi and runup	-12	-0.6		
8. TAKEOFF WEIGHT AND MOMENT (Subtract Step 7 from Step 6)	3100	127.8		

9. Locate this point (3100 at 127.8) on the Center-of-Gravity Moment Envelope, and since this point falls within the envelope, the loading is acceptable, providing that flight time is allowed for fuel burn-off to a maximum of 2950 pounds before landing.

* The maximum allowable combined weight capacity for baggage in areas A, B and C is 200 pounds. The maximum allowable combined weight capacity in areas B and C is 80 pounds.

Figure 6-3 (Sheet 1 of 2)