

Boyd Roberts
Aircraft Weighing
Celeste, Texas
972 529 8464

Weight and Balance Report

MAKE Cessna MODEL R182 SERIAL # R1801229 REGISTRATION # N757GT

DATUM IS Lower Firewall

1. Leveling Right door sill
2. Main wheel weighing point is 57 inches aft of datum.
3. Actual measured distance from the main weight point centerline to the tail (or nose) point -66 inches.
4. Date of scale calibration 7-23

Actual Empty Weight

Weight Point	Scale Reading	Tare	Net Weight
5. Right	615	0	615
6. Left	606	0	606
7. Tail/Nose	546	0	546
8. Total Net Weight			1767

CENTER OF GRAVITY AS WEIGHED

9. C.G. relative to main wheel weighing point:

$$\text{C.G.} = \frac{\text{Item 3} \times \text{Item 7}}{\text{Item 8}} = \underline{20.39} \text{ inches forward of main wheel weighing}$$

10. C.G. relative to datum:

$$\text{C.G.} = \text{Item 9} + \text{Item 2} = \underline{36.61} \text{ inches aft of datum.}$$

Boyd Roberts

Mechanic

A&P 1980389

Authorized Signature

Title

Cert. Number

Boyd Roberts

08-02-2023

Date

Empty Weight 1767
Max Gross 3100
Useful Load 1333
C/G 36.61

	Weight	CG	Moment
Old Basic Empty Weight	1829.41	34.12	62422.79
Max Aircraft T/O Weight	3100		
Max Aircraft Gross Weight	3100		
Old Aircraft Useful Load	1270.5		

Items Removed

KN64 DME	-2.6	17	-44.20
GNC 300XL	-3.24	17	-55.08
A-30 Encdr	-0.4	14	-5.60
ID-453/ARN-30	-3.3	17	-56.10
Stec A/P	-2.2	17	-37.40
Servo	-2.9	67.6	-196.04
Servo	-2.9	190	-551.00
Pitch Comp	-1.1	162	-178.20
Static xdcr	-0.2	140	-28.00
SF2000	-1.2	17	-20.40

Sub Total	-20.04		-1172.02
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Items Installed

N/A			0
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New Aircraft Basic Empty Weight	1809.37
New Aircraft Center of Gravity	33.85
New Aircraft Moment Arm	61250.77
New Aircraft Useful Load	1290.63

Date: 1/22/2023 Weighing Location: Calculated

Signature: [Signature] 003394208 AFTT 5400.0

**RainAir Avionics Services
FAA CRS # 9RSR194C
Weight & Balance
Equipment List Revision**

DATE: 5/17/2019
REGISTRATION: N757GT
MODEL: R182

SERIAL NUMBER: R18201229
WORK ORDER# : 661A

DESCRIPTION INSTALLED	WEIGHT	DESCRIPTION REMOVED	WEIGHT	STATION	MOMENT
		KT-76A Transponder	-3.15	13	-40.95
		Monopole Xpdr Ant.	-0.2	147	-29.40
		Narco AR 850 Encoder	-0.7	15	-10.50
					0.00
GTX 335 Xpdr	2.87			13	37.31
AV-74 Antenna	0.20			147	29.40
GAE 12 Encoder	0.04			8	0.30
GA 35 GPS Ant	0.40			131.5	52.60
					0.00
					0.00
					0.00
					0.00
					0.00
					0.00

TOTAL lbs: 3.51

TOTAL lbs: -4.05

38.76

TOTAL CHANGE: -0.54

OLD BASIC EMPTY WEIGHT: 1829.95
OLD CENTER OF GRAVITY: 34.09
OLD MOMENT ARM: 62384.03
MAX T/O WEIGHT 3100.00
MAX GROSS WEIGHT 3100.00
OLD USEFUL LOAD: 1270.05

NEW BASIC EMPTY WEIGHT: 1829.41
NEW CENTER OF GRAVITY: 34.12
NEW MOMENT ARM: 62422.79
NEW USEFUL LOAD: 1270.59

THIS DATA SUPERSEDES THE WEIGHT AND BALANCE FORM DATED: 11/16/1999

APPROVED: _____

CESSNA AIRCRAFT COMPANY

WICHITA, KANSAS

Weight & Balance and Installed Equipment Data

CONTROL NUMBER	DATE	MODEL	REGISTRATION NUMBER	CESSNA SERIAL NUMBER
920528	06/25/79	SKYLANE RG	N757GT	R18201229

ITEM	WEIGHT	ARM	MOMENT
STANDARD AIRPLANE (EMPTY, DRY) COMPUTED	1700.0	34.2	58140
INCLUDING ALL REQUIRED AND STANDARD EQUIPMENT ITEMS			
USABLE FUEL 4.0 GALLONS	24.0	48.0	1152
ULL OIL 9.0 QUARTS	16.9	15.7-	265-
STANDARD EMPTY WEIGHT	1740.9	33.9	59027
OPTIONAL EQUIPMENT REPLACING OR IN ADDITION TO REQUIRED AND STANDARD EQUIPMENT ITEMS			
AK-579K BROWN-MAJOR	NEGL.		
AE-579E BUTTERSCOTCH-ACCENT	NEGL.		
AFCL OPT-7 TAN LEATHER W/BEIGE CENT FAB INSERTS	1.0	62.3	62
BATTERY, 24-VOLT, HEAVY DUTY (EXCH)	2.0	4.5-	9-
FLIGHT CONTROLS, DUAL	6.7	14.1	94
DETECTORS, NAVIGATION LIGHTS	NEGL.		
STATIC SOURCE, ALTERNATE	.3	14.4	4
INDICATOR, TRUE AIRSPEED (EXCH)	.2	16.5	3
GROUND SERVICE PLUG RECEPTACLE	3.1	2.5-	8-
HEATING SYSTEM, STALL WARNING & PITOT (EXCH.)	.5	26.5	13
INDICATOR, ECONOMY MIXTURE	.7	8.2	6
LIGHTS, INSTRUMENT POST	.5	17.5	9
LIGHT, BEACON, OMNI-FLASH	1.8	208.6	375
LIGHTS, COURTESY	.5	61.7	31
RECORDER, FLIGHT HOUR	.6	7.8	5
SEAT PILOTS ARTICULATING RECLINE VERT. ADJ. (EXCH)	11.0	38.5	424
SEAT, FRONT PASSENGER ARTIC RECLINE & VERT ADJ EX.	11.0	38.5	424
VENTILATION SYSTEM, REAR SEAT	3.6	62.3	224
WINDOW, HINGED RH	2.3	47.0	108
LOCATOR BEACON	3.5	134.6	471
BASIC EMPTY WEIGHT	1790.2	34.2	61263
USEFUL LOAD	1309.8		
MAXIMUM TAKE-OFF WEIGHT	3100.0		

Revised 11-2-79