

AIRCRAFT WEIGH REPORT

G – JACH

PIPER PA28 – 181, ARCHER III

SERIAL NUMBER: 28 - 43585

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PAGE 2 WEIGHT AND CENTRE OF GRAVITY SCHEDULE

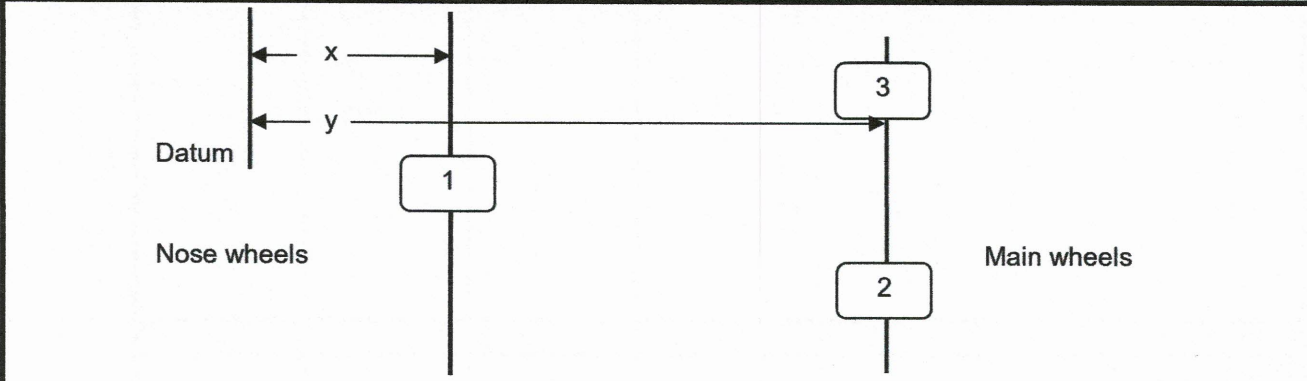

PAGE 3 AIRCRAFT WEIGHT CONTROL SHEET



Planeweighs Limited

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WEIGHING REPORT					No.	19321		
Type	PA28 181 Archer 3		Registration	G - JACH		Serial No.	28 - 43585	
Place	Dunkeswell		Date	19-Dec-19		Weighed by	C Simmonds	
Equipment	3 x LPA 400 SCALES			Calibration due	05-Sep-20			
								
Position	Ser no.	Weight (each reaction) lb	Weight (totals)	Arm (in)	Moment (lb/in)			
1	5580	470.5	470.5	(x) 30.73	14458			
2	5903	607.0		(y)				
3	5963	630.0	1237.0	109.70	135699			
AS WEIGHED			1707.5	87.94	150157			
Total subtractions (Column 1, see over)			0.0		0			
Total additions (Column 2, see over)			12.0		1236			
AIRCRAFT WEIGHT			1719.5	88.04	151393			
Remarks: The Aircraft Weight with the fuel tanks empty (but including unusable fuel), engine oil full systems primed and equipped as per The Owner's check list dated 19-Dec-19 is 1719.5 lb The Centre of Gravity (Arm) is 88.04 inches Aft of the Datum Procedure for Aircraft weighing is in accordance with the Aircraft Flight Manual.								
Certified that the above mentioned aircraft has been weighed in accordance with the terms of the order applicable thereto and unless otherwise stated above conforms fully to the standards/specifications quoted hereon and the requirements of the CAA.				Signed:  For and on behalf of PLANEWEIGHS LIMITED CAA Approval no. AI/8538/79				

Column 1 - Subtractions Items weighed but not part of Basic Weight	Weight lb	Arm in	Moment lb/in
NIL	0	0.00	0
Total	0		0
Column 2 - Additions Items not in aircraft when weighed			
Unusable fuel	12	103.00	1236
Total	12		1236
Notes AIRCRAFT WEIGHED WITH FUEL TANKS DRAINED(Sumped)			



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WEIGHT AND CENTRE OF GRAVITY SCHEDULE

REF NUMBER: PWL 19321

AIRCRAFT DESIGNATION: PA28 181 Archer 3

NATIONALITY AND REGISTRATION MARK: G - JACH

CONSTRUCTOR: The New Piper Aircraft Inc.

CONSTRUCTOR'S SERIAL NUMBER: 28 - 43585

CENTRE OF GRAVITY LIMITS:

(82.0) to (93.0) at 2050 lb or less

(88.6) to (93.0) at 2550 lb

Utility Category

(82.0) to (93.0) at 2050 lb or less

(83.0) to (93.0) at 2130 lb

Straight line variation between points

MAX AUTHORISED WEIGHT: 2550 lbs (2130 lbs Utility Category)

PART A. BASIC WEIGHT

The Basic Weight of the aircraft as calculated from Weighing Report Planeweighs no. 19321 dated the 19-Dec-19 is: **1719.5** lbs.

The Centre of Gravity of the aircraft in the same condition, at this weight and with the landing gear extended is: **88.04** inches Aft of the Datum.

The total moment about the datum in this condition is: **151393** lbs / inches.

NOTE: The datum is the one to which the limits in the Certificate of Airworthiness of Flight Manual refer and is defined as: **78.4 inches fwd of wing leading edge**

The Basic Weight includes the weight of 12.0 lbs unusable fuel and the weight of the following items, which comprise the Basic Equipment:

ITEM

Pilot & Co - Pilot Seats Complete

Passenger Row 2 Seats Complete

Fire Extinguisher

First Aid Kit

1 x Garmin GMA 340

1 x Garmin GNS 430

1 x Garmin GTX 328

1 x STEC ADF 650D

1 x STEC 55X

PART B. VARIABLE LOAD

The weight and lever arms of the variable load are shown below. The variable load depends on the equipment carried for the particular role.

<u>ITEM</u>	<u>WEIGHT (lbs)</u>	<u>LEVER ARM (in)</u>	<u>MOMENT (lb/in)</u>
Pilot	Use actual	80.50	As calculated

NOTE: The actual weight of the pilot must be used for aircraft not exceeding 12500 lbs and with less than 12 seating capacity.


PART C. LOADING INFORMATION (DISPOSABLE LOAD)

<u>ITEM</u>	<u>WEIGHT (lbs)</u>	<u>LEVER ARM (in)</u>	<u>CAPACITY</u>	
Usable fuel (max)	288.0	95.00	48.0 40.0	US gall. imp gall.
Engine oil (inc in Basic Weight)	15.0	27.50	8.0 1.7	US Qt. imp gall.
			<u>MOMENT (lb/in)</u>	
Passenger Row 1	Use actual	80.50	As calculated	
Passenger Row 2	Use actual	118.10	As calculated	
Baggage:	200 (max)	142.80	As calculated	

NOTE: Fuel density is 6 lbs / US gallon (7.2 lbs / imp gallon)
Engine oil is 7.5 lbs / US gallon (9 lbs / imp gallon)

To obtain the total loaded weight of the aircraft, add to the Basic Weight the weights of the variable and disposable load items to be carried for the particular role.

This schedule was prepared on **19-Dec-19** and supercedes all previous issues.

Signed..... on behalf of Planeweights Ltd.
CAA Approval no. **AI/8538/79**

NOTE: It is a requirement of the Air Navigation Order that the Commander of an aircraft registered in the United Kingdom shall satisfy himself, before takeoff, that the load carried is of such weight and is so distributed and secured, that it may be carried safely on the intended flight. Refer to the ANO, Article 28.



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AIRCRAFT WEIGHT CONTROL SHEET

Use this form to record aircraft modifications which affect the weight and balance. Add/subtract the weight and moment of the item to/from the weight and moment of the aircraft. Divide the new aircraft moment by the new aircraft weight to obtain the arm (CG). Insert the new aircraft weight, arm and moment in the columns on the right.

		<u>WEIGHT (lb)</u>	<u>ARM (in)</u>	<u>MOMENT (lb/in)</u>
AIRCRAFT AS WEIGHED ON	19-Dec-19	1719.5	88.04	151393

Date and details of item added or removed

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