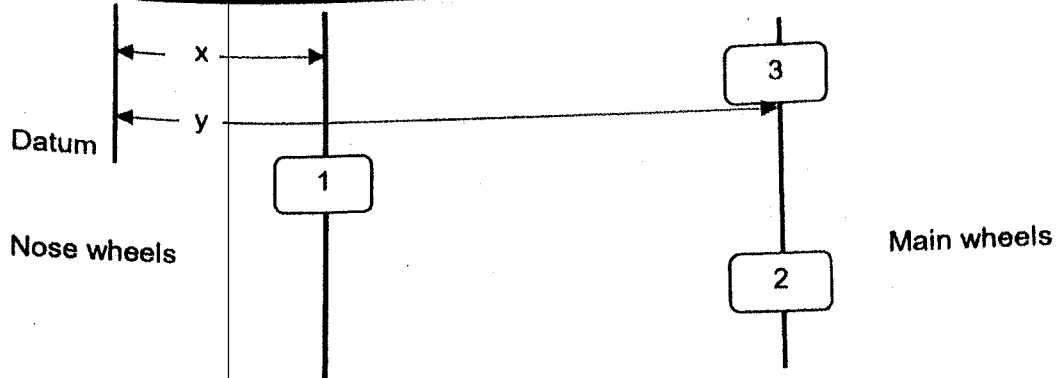


# Planeweighs Limited

Aircraft weighing & technical services

Unit 14, Ozwich Court,  
Fendrod Business Park,  
Valley Way,  
Swansea SA6 8RA.  
Tel: + 44 (0)1792 310566  
Fax: + 44 (0)1792 310584

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	

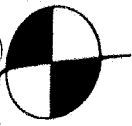


Position	Ser no.	Weight (each reaction) lb	Weight (totals)	Arm (in)	Moment (lb/in)
1	5580	470.5	470.5	(x) 30.73	14458
2	5903	607.0		(y)	
3	5963	630.0	1237.0	109.70	135699
<b>AS WEIGHED</b>			<b>1707.5</b>	<b>87.94</b>	<b>150157</b>
Total subtractions (Column 1, see over)			0.0		0
Total additions (Column 2, see over)			12.0		1236
<b>AIRCRAFT WEIGHT</b>			<b>1719.5</b>	<b>88.04</b>	<b>151393</b>

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 on and the requirements of the CAA.

Signed: \_\_\_\_\_  
 For and on behalf of  
**PLANEWEIGHS LIMITED**  
 CAA Approval no. AI/8538/79



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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>	<u>MOMENT (lb/in)</u>
Usable fuel (max)	288.0	95.00	48.0 US gall.	As calculated
			40.0 imp gall.	
Engine oil (inc in Basic Weight)	15.0	27.50	8.0 US Qt.	As calculated
			1.7 imp gall.	
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 Planeweighs Ltd.  
 CAA Approval no. **AV8538/79**

**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.



G-J

AIRC

Use the weight and lever arm

AIRC

Date

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

