



TIME AEROSPACE LLC
AEROSPACE SUPPORT SERVICES

Note: serves as an equipment list update. W&B change was negligible.

Supplemental Equipment List - Weight and Balance Form

Referenced W&B report by Gary Johnson dated 10/15/2003

Date: 12/08/2012 Registration: N2521V S/N 18030

T.T. 3050.15

	E.W.	C.G.	Moment
Previous:	1324.00	37.40	49517.60

Removed Equipment:

0.00
0.00

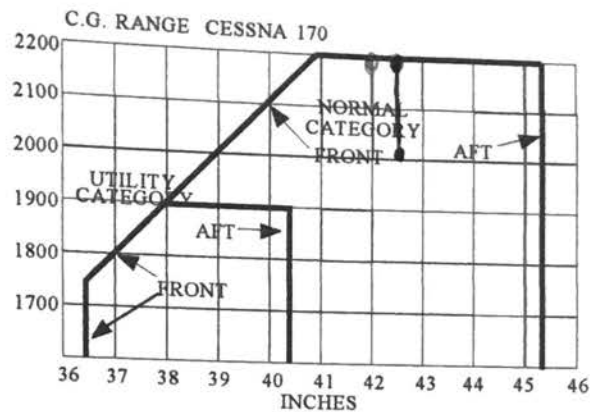
Installed Equipment:

PM1000 II	0.70	19.00	13.30
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New 1324.70 37.39 49530.90

NOTE: Weight and Balance Change was negligible and no changes required


Dean DeValle 

Empty Wt. C.G. Range	None																				
Maximum Weight	2200 lb. Normal Category 1900 lb. Utility Category																				
No. of Seats	4 (2 at +36), (2 at +70)																				
Maximum Baggage	120 lb. (+95)																				
Fuel Capacity	37.5 gal. total, 33.5 gal. usable (three 12.5 gal. tanks in wings at +45). See NOTE 1 for weight of unusable fuel																				
Oil Capacity	2 gal. (-20)																				
Control Surface Movements	<table border="0"> <tbody> <tr> <td>Wing flaps</td> <td>Up</td> <td>Down</td> <td>30°</td> </tr> <tr> <td>Ailerons</td> <td>Up 22°</td> <td>Down</td> <td>14°</td> </tr> <tr> <td>Elevator tab</td> <td>Up 10°</td> <td>Down</td> <td>27°</td> </tr> <tr> <td>Elevators</td> <td>Up 28°</td> <td>Down</td> <td>17°</td> </tr> <tr> <td>Rudder</td> <td>Right 16°</td> <td>Left</td> <td>16°</td> </tr> </tbody> </table>	Wing flaps	Up	Down	30°	Ailerons	Up 22°	Down	14°	Elevator tab	Up 10°	Down	27°	Elevators	Up 28°	Down	17°	Rudder	Right 16°	Left	16°
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Rudder	Right 16°	Left	16°																		
Serial Nos. Eligible	18000 through 18729																				
Required Equipment	<p>In addition to the pertinent required basic equipment specified in CAR 3, the following items of equipment must be installed:</p> <p>Landplane: Items 1(a), 103, 104, 201(a), 202(a), 204(a), 402(a).</p> <p>Skiplane: Items 1(a), 103, 104, 204(a), 208(a), 402(a), and (e) or (d).</p> <p>Note: For night flying, cabin dome light and instrument lights or equivalent, to provide illumination of all placards and instruments are required in addition to equipment required by CAR 43.</p>																				

Type Aircraft: Cessna 170 Tail Number: N170RH

Weight & Balance

	Weight	Arm	Moment
Empty Weight	1324.7	37.39	49517.60
Pilot / Front Pax	410	36	14760
Rear Pax	340	70	23800
Baggage Area 1	0		0
Baggage Area 2	0		0
**Zero Fuel Weight	2074	42.47	88077.6
Fuel in Pounds	108	45	4860
Ramp Weight	2182		92937.6
Taxi / Run-Up			
Take-off Weight	2182	42.6	92937.6

CG Location in inches aft of datum: 42.6

Take-off Distance: Ground Roll 837, Over 50ft. Obst. 2092

OPERATION AND PERFORMANCE DATA

lbs. gross weight is not to be exceeded — and the useful load in the airplane can be distributed in any way the pilot desires, that is, in baggage (up to the baggage compartment placard limit), gasoline, or passenger load. These are all variables including the pilot's weight, and of course, baggage may be carried in the passenger's location instead of a passenger. It is the responsibility of the pilot and operator to see that the weight and balance are within limitations.

OPERATIONAL DATA:

PERFORMANCE INFORMATION

The following operational data are compiled from actual tests with airplane and engine in good condition and using average piloting technique. Data are based upon a gross weight of 2200 lbs. with McCauley propeller installed, and full throttle for take-off and climb. Performance figures are for zero wind velocity and hard surface level runway. Speeds are true indicated airspeeds.

ITEM	ALTITUDE	OUTSIDE AIR TEMPERATURE					
		0°F	20°F	40°F	60°F	80°F	100°F
<i>Take Off Distance (Ft.)</i>	Sea Level	1460	1580	1700	1820	1930	2050
To clear 50 ft. obstacle	2000 Ft.	1780	1910	2050	2190	2340	2500
Airspeed 76 MPH Take-off	4000 Ft.	2140	2290	2450	2610	2790	3000
Full Throttle, Flaps Up	6000 Ft.	2550	2740	2930	3140	3360	3620

Take Off Correction: Reduce above distances 10% for each 6 MPH Wind Velocity. Ground run approx. 40% of distances shown.

<i>Landing Distance (Ft.)</i>	Sea Level	1580	1640	1700	1755	1810	1860
Over 50 ft. obstacle	2000 Ft.	1685	1745	1805	1860	1915	1965
Approach at 71 MPH	4000 Ft.	1790	1850	1910	1970	2020	2075
Flaps Down	6000 Ft.	1900	1955	2020	2075	2130	2180

Landing Correction: Reduce above distances 10% for each 6 MPH Wind Velocity. Roll approx. 45% distances shown.

<i>Normal Rate Climb</i> (Feet Per Minute)	Airspeed	89	Sea Level	760	740	715	690	670	645
		86	2000 Ft.	670	645	625	600	580	555
		84	4000 Ft.	580	555	535	510	485	465
		81	6000 Ft.	490	465	440	420	395	370