

<b>1974 Cardinal N2146Q, Cessna 177 RG</b>			
<b>SN# 177RG0546</b>		Baggage Compartment	Dimensions
		Door: 20" T, 31"W, 14" W	behind hump
Basic Empty Weight	1742.6	Behind hump: 31"x13"x32"	
Fuel (6 lbs/gal) – 61, 60 gal. usable	360	Before hump: 37"x13"x36" T	
Baggage Area 1 (120 lb max)	Total baggage	Total length of luggage area	38"
Baggage Area 2 (120 lb max)	120 lb max.	Back seat bench to ceiling:	35"Tx43"W
Payload	1057.4		
Payload full fuel	697.4		
<b>Gross weight</b>	<b>2800</b>		
<b>Cessna 177 RG – Normal Category</b>		Aerobatic maneuvers, including spins prohibited.	
Lycoming IO-360-A1B6D 200 HP			
Service Ceiling, 17,100		<b>FLIGHT LOAD FACTOR</b>	
		Flaps up	+3.8, -1.52
		Flaps down	+2.0
		<b>TACHOMETER</b>	
<b>EMERGENCIES</b>		Normal, Green Arc	2100-2500rpm
Engine failure after takeoff flaps up	80-85 mph per wt.	Caution, Yellow Arc	1400-1750, ≤ 10 MP
Engine failure after takeoff flaps down	75 mph	Maximum, Red Line	2700 rpm
		<b>MANIFOLD PRESSURE</b>	15-25 in., Green Arc
		<b>FUEL FLOW</b>	6-13gph, Green Arc
<b>TAKE OFFS AND CLIMBS</b>			19 gph, Red Line
Vr	65 mph	<b>CYL HEAD TEMP</b>	200-475 Green Arc
<b>Vx (10 degrees flaps)</b>	<b>71 mph (80 cln)</b>		475 Red Line
Short field (10 degrees flaps)	71 mph	<b>OIL TEMP</b>	Normal – Green Arc
Soft Field (10 degrees flaps)			245 Degrees – Red Line
Normal climbout (up to 10 degrees)	75-85 mph		
<b>VY (best rate 0 flaps)</b>	<b>95 mph</b>	<b>LANDINGS</b>	<b>(apch spds)</b>
Enroute climb	100-120 mph	Normal, flaps up	80-90 mph
		Normal, flaps at 30	70-80 mph
<b>STALLS</b>		Short field, flaps at 30	72 mph
Vso (flaps down, power off)	57 mph	Max Crosswind	Pilot Discretion
Vs1 (flaps up, power off)	66 mph	Slips w/ Flaps Extended	Approved
		<b>Best Glide Speed</b>	2800 lb – 85 mph
<b>MANEUVERING SPEED</b>			2400 lb – 80 mph
<b>Va (2800 lbs)</b>	<b>130 mph</b>		
		<b>MAXIMUM POWER MIXTURE*</b>	
<b>GEAR OPERATING SPEED</b>	140 mph	Alt.	SL 4,000' 8,000' 12,000'
<b>FLAP SPEEDS</b>		Gal/Hr	17 15 13 10
Vfe (10 degrees flaps)	150 mph	• @ 2700rpm, 2 gph less @ 2500 rpm	
Vfe (10-30 degrees flaps)	110 mph		
<b>NORMAL OPERATING SPEEDS</b>			
Vne	195 mph		
Vno	160 mph		
Max window open (vents)	120 mph	Camera window - NA	
<b>FUEL AND OIL</b>	Fuel with selector in left/right position to prevent x-feeding.		
Fuel -- 100 LL			
Fuel, std tanks (61 gal)	60 usable	Max Oil temp -- 245 F	
Oil (6 qts minimum)	8 qts	Oil pressure -- 25 - 100 psi,	60- 90 normal