



Memorandum for Record

Fabian Salazar
Air Safety Investigator
National Transportation Safety Board
Office of Aviation Safety – Western Pacific Region

NTSB Accident Number: WPR18FA279
Aircraft Registration & Make/Model: N46321/Cessna 177RG
Accident Location: La Verne, CA.
Accident Date: September 30, 2018

According to the Owner's Manual for the Cessna 177RG airplane, the stall speed for flaps up, power off, is 66 mile per hour (mph). The stall speed for flaps down, power off, is 57 mph. Figure 1. is an excerpt from the 1972 Cessna 177RG Owner's Manual showing the noted stall speed. The accident airplane was manufactured in 1977.

PERFORMANCE - SPECIFICATIONS

*Cardinal RG ==

GROSS WEIGHT	2800 lbs
SPEED, BEST POWER MIXTURE:	
Top Speed at Sea Level	180 mph
Cruise, 75% Power at 7000 ft	171 mph
RANGE, NORMAL LEAN MIXTURE:	
Cruise, 75% Power at 7000 ft	785 miles
50 Gal., No Reserve	4.6 hours
Optimum Range at 10,000 ft	170 mph
50 Gal., No Reserve	1005 miles
	7.2 hours
	140 mph
RATE OF CLIMB AT SEA LEVEL	925 fpm
SERVICE CEILING	17,100 ft
TAKE-OFF:	
Ground Run	890 ft
Total Distance Over 50-Foot Obstacle	1585 ft
LANDING:	
Ground Roll	730 ft
Total Distance Over 50-Foot Obstacle	1350 ft
STALL SPEEDS:	
Flaps Up, Power Off	66 mph
Flaps Down, Power Off	57 mph
EMPTY WEIGHT: (Approximate)	1645 lbs
USEFUL LOAD	1155 lbs
BAGGAGE	120 lbs
WING LOADING: Pounds/Sq Foot	16.1
POWER LOADING: Pounds/HP	14.0
FUEL CAPACITY: Total	51.0 gal.
OIL CAPACITY	8 qts.
PROPELLER: Constant Speed (Diameter)	78 inches
ENGINE:	
Lycoming Fuel Injection Engine	IO-360-A1B6
200 rated HP at 2700 RPM	

* This manual covers operation of the Cardinal RG which is certificated as Model 177RG under FAA Type Certificate No. A20CE. The manual also covers operation of the Reims/Cessna Cardinal RG which is certificated as Model F177RG under French Type Certification.

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Cessna Aircraft Company
Wichita, Kansas USA

Figure 1. Excerpt from Cessna 177RG Owner's Manual