

1977 CARDINAL

CESSNA 177RG II

Production run from 1968 - 1978, in both Fixed Gear and Retractable versions.

Final engine choice: 200hp Lycoming IO-360 engine.

What's to like about a Cardinal?

-Great Payload

- * 1000 lbs payload. With 60 gallons full fuel still have 640# useful load.

-Speed

- * 146kts @ 8000' wide open throttle (= 168 mph)
- * Slow stall speed for landing: 50kts (57 mph)

-Range

- * 800 nautical mile range @ full throttle (75%)
- * 890 nautical mile range @ economy power (45%) (over 1000 miles)
- * Ceiling 17,100'

-Economy

- * ~9 gallons per hour

-Better Visibility

- * No strut
- * Wing aft of pilot head so pilot can see UP out the sky

-Wider Cabin

- * 48" shoulder room, compared to 40" to 42" for Tiger, C-172, Bonanza...

-Wide Doors

- * 45" doors that open 90°
- * Same step-up height as my Ford F-150

Vso-50 Vs0-59 Vr-62 Vx-67 BstGld-70(75gw)

Vy-82 CrzClimb-85-100 Va-105 VL-125

N52156

WEIGHT AND BALANCE

S-TEC AUTO PILOT SUPPLEMENT

FLIGHT MANUAL SUPPLEMENT

MUST REMAIN
IN
AIRPLANE

1-28-24

LEFT		RIGHT		TACH		HOBBS	
FUEL							
Start	28.0	+ Start	19.0	= Total	47.0	END	6359.2
End	25.0	+ End	18.0	= Total	43	START	6358.3
USED				= Total	4.0	Total	.6
Taken IN				= Total		@ \$	/gl = \$

6.6
91

2-8

LEFT		RIGHT		TACH		HOBBS	
FUEL							
Start	25.0	+ Start	18.0	= Total	43.0	END	6360.0
End	20.0	+ End	15.0	= Total	35.0	START	59.2
USED	5.0			= Total	8.0	Total	.8
Taken IN				= Total		@ \$	/gl = \$

839

2-11 To Kibet
\$40 call
+ transport
+ 749

LEFT		RIGHT		TACH		HOBBS	
FUEL							
Start	18.0	+ Start	18.0	= Total	60	END	
End	8.5	+ End	13	= Total	21.5	START	
USED	22.5			= Total	39.5	Total	
Taken IN				= Total	40.71	@ \$5.66 /gl	= \$233.45

3.96
= 10.1
91

2-11 To Delano

LEFT		RIGHT		TACH		HOBBS	
FUEL							
Start	30.0	+ Start	30	= Total	60	END	
End	15.0	+ End	7.8	= Total	22.8	START	
USED	15			= Total	37.1	Total	
Taken IN				= Total	40.71	@ \$5.66 /gl	= \$230.76

4.0
9.3
10.2

2-11 To Feb.

LEFT		RIGHT		TACH		HOBBS	
FUEL							
Start	30	+ Start	30.0	= Total	60	END	6369.6
End	21.5	+ End	16.0	= Total	37.5	START	
USED	8.5			= Total	22.5	Total	9.6
Taken IN	7.9			= Total	21.2	@ \$	/gl = \$

10.2
91

2-22-25

LEFT		RIGHT		TACH		HOBBS	
FUEL							
Start	30.0	+ Start	28.5	= Total		END	6370.3
End	28.0	+ End	22.0	= Total		START	6369.6
USED	2.0			= Total	8.5	Total	0.7
Taken IN				= Total		@ \$	/gl = \$

2
94
+ wash
8.5 gph

2-28-25
105
Arrival

LEFT		RIGHT		TACH		HOBBS	
FUEL							
Start	30.0	+ Start	18.5	= Total	48.5	END	6371.0
End	25.5	+ End	18.5	= Total	44.0	START	6370.4
USED	4.5			= Total	4.5	Total	0.6
Taken IN				= Total		@ \$	/gl = \$

Landing 18

4/28/25

Abstract - Vacuum Pump

FUEL		LEFT	RIGHT	TACH		HOBBS	
Start		22.0		20.0	428.60	6371.8	879.0
End		20.5		16.0	36.5	6371.0	878.1
USED		2.5	USED	4.0	6.5	0.8	0.9
Taken IN			Taken IN				

DATE

5/1/25

Accident Flight

FUEL		LEFT	RIGHT	TACH		HOBBS	
Start		18.0		16.0	34.0	6371.9	879.2
End				16.5			
USED			USED				
Taken IN			Taken IN				

FUEL		LEFT	RIGHT	TACH		HOBBS	
Start							
End							
USED			USED				
Taken IN			Taken IN				

FUEL		LEFT	RIGHT	TACH		HOBBS	
Start							
End							
USED			USED				
Taken IN			Taken IN				

FUEL		LEFT	RIGHT	TACH		HOBBS	
Start							
End							
USED			USED				
Taken IN			Taken IN				

FUEL		LEFT	RIGHT	TACH		HOBBS	
Start							
End							
USED			USED				
Taken IN			Taken IN				

FUEL		LEFT	RIGHT	TACH		HOBBS	
Start							
End							
USED			USED				
Taken IN			Taken IN				

E
CO

KG00 - KSCK (May 01, 2025) in N52156 (C77R - 177RG Cardinal) IFR
25in/Full 2500 RPM 90KIAS - 65%/Full Lean Mixture @ 5000' - 55% at 500 fpm

Created May 01 2025
Winds May 01 2025

Distance 93NM	Avg Wind 2kt tail (056°/005)	ETD 9:10 AM PDT / 1610Z	ETA 9:51 AM PDT / 1651Z	TOW 2604 lbs	ELW 2565 lbs
Block Fuel 35.0 g	Taxi Fuel 1.2 g	Flight Fuel 7.8 g	Reserve Fuel 8.0 g	Alternate Fuel 5.3 g	Extra Fuel 13.9 g
				Landing 27.2 g	

Route
HNW VOHBO/N0136A040 LIN ORANG

RAIM (5° Mask, With Baro-aid)

WAYPOINT	AIRWAY	MAG		ALT	WIND		ISA	SPD KT		DIST NM		FUEL G		ACT	TIME		
		HDG	CRS		CMP	DIR/SPD		TAS	GS	LEG	REM	USED	REM		LEG	REM	ETE
KG00		-	-	3158	-	-	+9	-	-	-	93	1.2	33.8		-	0:41	-
-TOC-	DCT	142	145	5000	T1	064/006	+9	103	104	6	87	2.0	33.1		0:03	0:38	0:03
HNW	DCT	142	145	5000	H0	070/008	+9	138	138	26	61	3.7	31.3		0:12	0:26	0:15
HANGTOWN 115.5																	
VOHBO	DCT	165	168	5000	T3	066/007	+9	138	141	16	45	4.8	30.2		0:06	0:20	0:21
LIN	DCT	194	195	4000	T4	050/004	+9	134	137	26	19	6.5	28.4		0:12	0:08	0:33
LINDEN 114.8																	
-TOD-	DCT	234	233	4000	T2	005/003	+8	137	138	0	19	6.5	28.4		0:00	0:08	0:33
ORANG	DCT	235	233	1000	T2	326/003	+6	130	132	14	5	7.3	27.6		0:06	0:02	0:39
KSCK	DCT	156	154	33	T2	290/004	+2	123	125	5	-	7.8	27.2		0:02	-	0:41

ALTERNATE #1 KMOD / ROUTE: DCT
CRUISE PROFILE: 65%/FULL LEAN MIXTURE @ FL30

KSCK	-	-	0	-	-	+5	-	-	-	36	-	27.2	-	0:17	-
-TOC-	DCT	190	188	3000	H0 294/004	+4	93	93	9	27	3.2	24.0	0:05	0:12	0:05
APPCH	DCT	189	188	3000	T2 338/003	+7	135	137	6	21	3.7	23.5	0:03	0:09	0:08
-TOD-	DCT	068	070	3000	T1 335/003	+	135	136	9	12	4.3	22.9	0:04	0:05	0:12
APPCH	DCT	069	070	1500	T1 304/003	+5	130	131	6	6	4.8	22.4	0:03	0:02	0:15
KMOD	DCT	128	127	99	T4 298/004	+4	120	124	6	-	5.3	21.9	0:02	-	0:17

WINDS ALOFT	1000 FT (ISA: 13°C)	3000 FT (ISA: 9°C)	5000 FT (ISA: 5°C)	7000 FT (ISA: 1°C)	9000 FT (ISA: -3°C)
	(COMP) WIND	ISA	(COMP) WIND	ISA	(COMP) WIND
-TOC-	(T1) 292/001	+8	(T1) 053/004	+8	(H1) 070/008
HNW	(T1) 307/001	+7	(T1) 050/003	+8	(T0) 066/007
VOHBO	(T1) 302/002	+6	(T2) 029/002	+8	(T3) 057/005
LIN	(T0) 300/005	+2	(T2) 334/003	+7	(T4) 027/004
-TOD-	(H3) 300/005	+2	(H0) 334/003	+7	(T3) 026/004
ORANG	(H3) 290/004	+2	(T0) 344/003	+7	(T3) 020/004
	0h42m (+0:01), 6.5 g Avg wind comp: H0	0h41m (-0:01), 6.3 g Avg wind comp: T1	0h41m (0:00), 6.6 g Avg wind comp: T2	0h42m (+0:01), 6.9 g Avg wind comp: T3	0h44m (+0:03), 7.3 g Avg wind comp: T4

FUEL & WEIGHTS

SUMMARY & TIMES

PIC

Robert Lund

Block Fuel

Taxi Fuel

35.0 g

1.2 g

NOTES

Out:

In:

Block time:

Tail	N52156 (C77R)	Flight Fuel	7.8 g	Off:	On:	Flight time:
Profile	25in/Full 2500 RPM 90KIAS - 65%/Full Lean Mixture @ 5000' - 55% at 500 fpm	Reserve Fuel	8.0 g	Start:	Stop:	Hobbs time:
		Min: 8.0 g				
		Alternate Fuel KMOD	5.3 g	Start:	Rem:	Fuel used:
Fuel Flow	9.5 g/hr	Extra Fuel	13.9 g			
Distance	93NM	Additional	0.0 g			
ETD	9:10 AM PDT / 1610Z	Payload	600 lbs	Signature:		
ETE	0h41m	ZFW	2402 lbs			
ETA	9:51 AM PDT / 1651Z	TOW	2604 lbs			
		ELW	2565 lbs			
Route	HNW VOHBO/N0136A04 0 LIN ORANG					
Altitude	5000'					

	AIRPORT	ETA	WX	TWR/CTAF	CLR	GND	ELEV	LONGEST RWY	
DEP	KGOO	-	121.325	122.725	N/A	N/A	3158	07 / 25	4657 ft
DEST	KSCK	9:51 AM PDT / 1651Z	118.25	120.3	N/A	121.9	33	11L / 29R	10249 ft
A/TN 1	KMOD	10:09 AM PDT / 1709Z	127.7	125.3	N/A	121.7	99	10L / 28R	5904 ft

Search Invoices

Batch No.	Invoice No.	Invoice Status	Customer Name	Tail No.	Delivery Date	Invoice Date	Invoice Total	
2557	20200	Processed	Robert Lund	N52156	02/12/2025	02/12/2025	\$129.32	Select
2522	19416	Processed	Robert Lund	N52156	01/03/2025	01/03/2025	\$220.50	Select
	19414	Cancelled	Robert Lund	N52156	01/03/2025	01/03/2025	\$220.50	Select

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