

Airspeeds for Normal Operations

TAKEOFF

V_x Flaps UP 62 KIAS
 V_y Flaps UP 74 KIAS
 Short Field, Flaps 10°, 50 ft 57 KIAS
 Cruise - Climb Flaps UP 75-85 KIAS

LANDING

Flaps UP 65-75 KIAS
 Flaps FULL 60-70 KIAS
 Short Field Flaps FULL 61 KIAS
 Max. demo X-Wind, Flaps UP - 10° 20 knots
 Max. demo X-Wind, Flaps FULL 15 knots
 V_{FE} Flaps 10° 110 KIAS
 V_{FE} Flaps 10°-FULL 85 KIAS

CRUISE

V_A Maneuvering 90-105 KIAS
 V_{NO} Max turbul. Air 129 KIAS
 V_{NE} Max Airspeed 163 KIAS
 Max. Window open speed 163 KIAS

Airspeeds for Emergency Operations

V_A Maneuvering 90-105 KIAS
 Best Glide Flaps UP 68 KIAS
 Eng. Failure aft. T/O Flaps 10°-FULL 65 KIAS
 Eng. Failure aft. T/O Flaps UP 70 KIAS



3fly.at

D-EUTC

CESSNA 172S

MTOM = 1157 kg / 2550 lb

A/C-Size: W: 11.0 m H: 2.7m L: 8.3 m

FPL (EXAMPLE)

7	A/C ID	D-EUTC
8	Flight Rules	V,I,Y,Z
	Type of Flight	G
9	Type of A/C	C172
	Wake Turbul. Cat.	L
10	Equipment	BDFGLORY/S
13	Departure A/D	LOAV
	Departure Time	0830
15	Speed	N0115
	Flight Level	VFR
	Route	RADLY
16	Destination A/D	LJPZ
	Total EET	0200
	Alternate A/D	LOWG
18	Other Info	EET/RADLY0040
	PBN/B2C2D2O2S2	NAV/SBAS
19	Endurance	0400
	Persons on Board	1-4
	Emerg. Equipm.	ELT
	A/C Colour	WHITE
	Name PIC	NAME/TEL

OPERATOR

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FUEL

Fuel AVGAS 100LL

Maximum Fuel 56 USG

Unusable Fuel 3 USG

OIL

Shell Aero 15W-50

Minimum 5 quarts

Maximum 8 quarts

TIRE

Front Tire 45 psi

Main Tires 42 psi

SPEED

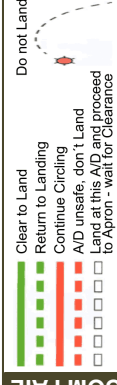
V_{S0} (Stall- Flaps max) 40 KIAS

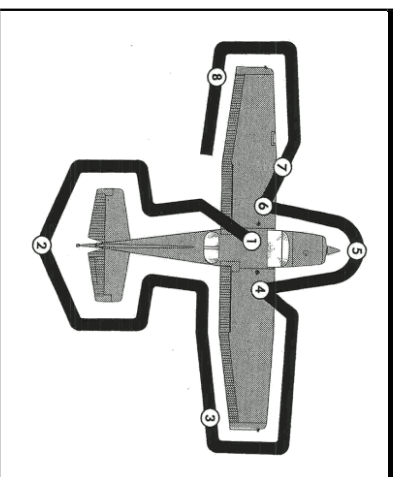
V_{S1} (Stall- Flaps 0) 48 KIAS

V_G (best glide/Flaps0) 68 KIAS

Max. Demo. X-Wind 20 knots

COM FAIL



PREFLIGHT

1 CABIN	
1 Pitot Cover	REMOVE
2 POH	ACCESSIBLE
3 Mass & Balance	IN LIMITS
4 Parking Brake	SET
5 Control Wheel Lock	REMOVE
6 Magnetos	OFF
7 Avionics Master	OFF
BATTERY	
Master ALT1/BAT	ON
Fuel Quantity	CHECK
Avionics Master	ON
Avionics Fan	AUDIBLE
Avionics Master	OFF
Alt. Static Air	OFF
Annunciator Panel	TEST

CRUISE PERFORMANCE

CONDITIONS:
2550 Pounds
Recommended Lean Mixture

Druck- höhe ft	1/min	20°C ÜNTER STANDARDTEMP		STANDARD- TEMPERATUR		20°C ÜBER STANDARDTEMP					
		%	KTAS	%	KTAS	%	KTAS				
2000	2550	83	117	42,1	77	118	39,8	72	117	37,5	
	2500	78	115	40,2	73	115	37,5	68	115	35,6	
	2400	69	111	36,4	64	110	34,1	60	109	32,2	
	2300	61	105	32,6	57	104	30,7	53	102	29,2	
	2200	53	99	29,2	50	97	27,7	47	95	26,2	
	2100	47	92	26,2	44	90	25,0	42	89	23,9	
	4000	2600	83	120	42,1	77	120	39,4	72	119	37,1
		2550	79	118	40,2	73	117	37,5	68	117	35,6
		2500	74	115	38,3	69	115	36,0	64	114	33,7
		2400	65	110	34,5	61	109	32,2	57	107	30,7
2300		58	104	31,1	54	102	29,2	51	101	27,7	
2200		51	98	28,1	48	96	26,5	45	94	25,4	
2100		45	91	25,0	42	89	24,3	40	87	23,1	
6000		2650	83	122	42,1	77	122	39,4	72	121	37,1
		2600	78	120	40,2	73	119	37,5	68	118	35,6
		2500	70	115	36,4	65	114	34,1	60	112	32,2
	2400	62	109	32,6	57	108	31,1	54	106	29,2	
	2300	54	103	29,6	51	101	28,1	48	99	26,5	
	2200	48	96	26,9	45	94	25,4	43	92	24,3	

LANDING	
1	Airspeed (Flaps Up) 65-75 KIAS
2	Flaps: < 110 KIAS UP - 10°
3	Flaps: < 85 KIAS 10° - FULL
4	Airspeed (Flaps Full) 60-70 KIAS
5	Trim ADJUST
6	Touchdown MAIN WHEELS
7	Nose Wheel LOWER GENTLY
8	Brakes MINIMUM
APPROACH	
1	Throttle FULL FWD
2	Flaps 20°
3	Climb Speed 60 KIAS
4	Flaps 10°
5	400 ft AGL - Safe Speed CHECK
6	Speed 65 KIAS
7	Flaps UP

1	Throttle FULL FWD
2	Flaps 20°
3	Climb Speed 60 KIAS
4	Flaps 10°
5	400 ft AGL - Safe Speed CHECK
6	Speed 65 KIAS
7	Flaps UP

AFTER LANDING	
1	Flaps UP
2	Pitot Heat OFF
3	Strobes OFF
4	Transponder CHECK GND
5	LDG Light OFF

SECURING ACFT	
1	Parking Brake SET
2	ELT (121,5 MHz) CHECK
3	Throttle 1000 rpm
4	Flight Plan CLOSED
5	Avionics Master OFF
6	Electr. Equipment OFF
7	Mixture IDLE CUTOFF
8	Magnetos OFF
9	Beacon OFF
10	Master ALT/BAT OFF
11	Control Wheel Lock INSTALL
12	Fuel Selector LEFT/RIGHT
13	Flight Logger SLIDE CARD

SHORT FIELD LANDING	
1	Airspeed (Flaps Up) 65-75 KIAS
2	Flaps FULL
3	Airspeed 61 KIAS
4	Trim ADJUST
5	PWR (after Obsr. cleared) IDLE
6	Touchdown MAIN WHEELS
7	Brakes HEAVILY
8	Flaps UP

5 NOSE	
35	Fuel Strainer 3x DRAIN
36	Oil Level CHECK
37	Dipstick/Filler Cap SECURE
38	Engine Inlets CHECK
39	Prop & Spinner CHECK
40	Air Filter CHECK
41	Wheel Strut/Tire CHECK
42	Static Source Port CLEAN

6 LEFT WING	
43	Fuel Quantity CHECK
44	Fuel Filler Cap SECURE
45	Filler Cap Vent CLEAR
46	Fuel Tank 5x DRAIN
47	Main Wheel Tire CHECK

7 LEFT WING - Leading Edge	
48	Fuel Tank Vent CHECK
49	Stall Warning CHECK
50	Wing Tiedown DISCON
51	LDG & Taxi Light CHECK

8 LEFT WING - Trailing Edge	
52	Aileron CHECK
53	Flaps CHECK

BEF. ENGINE START	
1	Preflight Inspection COMPL
2	Passenger Briefing COMPL

3	Seats/Seat Belts ADJUST/LOCK
4	Brakes TEST & SET
5	Circuit Breakers CHECK IN
6	Electr. Equipment OFF
7	Avionics Master OFF
8	Fuel Selector BOTH
9	Fuel Shutoff Valve ON
10	Avionics CB CHECK IN

ENGINE START	
1	Throttle 6-8 mm OPEN
2	Mixture IDLE CUTOFF
3	Master ALT/BAT ON
4	Beacon ON
5	Fuel Pump ON
6	Mixture 3-5 SEC RICH
7	Fuel Flow 12-19 Ltr/H
8	Mixture IDLE CUTOFF
9	Fuel Pump OFF
10	Prop Area CLEAR
11	Ignition START
12	Mixture when fires RICH
13	Oil Press. < 30 sec IN RANGE
14	ACL AS REQ
15	Nav Lights AS REQ
16	Avionics Master ON
17	COM ON
18	A/P Selftest + Horn CHECK
19	Flaps UP

FLOODED ENGINE START		
1 Fuel Pump	OFF	
2 Mixture	LEAN	
3 Throttle	1/2 - FULL	
4 Ignition	START	
5 Mixture when fires	RICH	
6 Throttle	1000 rpm	

ENGINE START - Ext. Power		
1 Throttle	6-8 mm OPEN	
2 Mixture	IDLE CUTOFF	
3 Prop Area	CLEAR	
4 Ext. Battery	CONNECT	
5 Master ALT/BAT	ON	
6 Beacon	ON	
Fuel Pump	ON	
Mixture	3-5-SEC RICH	
Fuel Flow	12-19 Ltr/H	
Mixture	IDLE CUTOFF	
Fuel Pump	OFF	
Ignition	START	
Mixture when fires	RICH	
Oil Press. < 30 sec	IN RANGE	
Ext. Battery	DISCONN	
ACL	AS REQ	
Nav Lights	AS REQ	
Avionics Master	ON	
COM	ON	
A/P Selftest + Horn	CHECK	
Flaps	UP	

BEFORE TAKEOFF		
1 Parking Brake	SET	
2 Seat Backs	UPRIGHT	
3 Seats/Seat Belts	SECURE	
4 Cabin Doors	CLOSE LOCK	
5 Flight Controls	FREE & CORR	
6 Throttle Check	IDLE	
7 Throttle	~1000 rpm	
8 Flight Instruments	CHECK	
9 Fuel Quantity	CHECK	
10 Mixture	RICH	
11 Fuel Selector	BOTH	
12 Elevator Trim	T/O	
Throttle	1800 rpm	
Ignition R-B-L-B	CHECK	
Drop max 150 rpm	CHECK	
Diff L/R max 50 rpm	CHECK	
Ignition Both	CONFIRM	
VAC Indicator	CHECK	
Engine Instruments	CHECK	
Annmeter/Voltmeter	CHECK	
Annunciators	CHECK	
Throttle	1000 rpm	
Friction Lock	ADJUST	
ACL	AS REQ	
COM & Avionics	SET	
Autopilot	ENGAGE	
Flight Controls	VERRIDE	
A/P - Baro	SET QNH	
A/P DISC+Horn	PRESS & V/FY	

30 Transponder	SET ALT	
31 Flaps	UP or 10°	
32 LDG Light	ON	
33 Elevator Trim	T/O	
34 Brakes	RELEASE	

LINE UP / TAKEOFF		
1 Flaps	UP or 10°	
2 Throttle	FULL FWD	
3 Mixture	RICH	
4 Rotate	55 KIAS	
5 Climb Speed	70-80 KIAS	
6 400 ft AGL - Safe Speed	CHECK	
7 Flaps	UP	

SHORT FIELD TAKEOFF		
1 Flaps	10°	
2 Brakes	APPLY	
3 Throttle	FULL FWD	
4 Mixture	RICH	
5 Brakes	RELEASE	
6 Elevator	TAIL LOW	
7 Climb Speed	57 KIAS	
8 400 ft AGL - Safe Speed	CHECK	
9 Climb Speed	> 60 KIAS	
10 Flaps	UP	

ENROUTE CLIMB		
1 Climb Speed	70-85 KIAS	
2 Throttle	FULL FWD	
3 Mixture	RICH	

CRUISE		
1 Throttle	AS REQ	
2 Trim	AS REQ	
3 Mixture	LEAN	

DESCENT		
1 Throttle	AS DESIRED	
2 Mixture	ADJUST	
3 Altimeters	SET	
4 Fuel Selector	BOTH	

BEFORE LANDING		
1 Seat Backs	UPRIGHT	
2 Seats/Seat Belts	SECURE	
3 Fuel Selector	BOTH	
4 Mixture	RICH	
5 LDG & Taxi Light	ON	
6 Autopilot	OFF	