

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 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



D-EUTC

CESSNA 172S

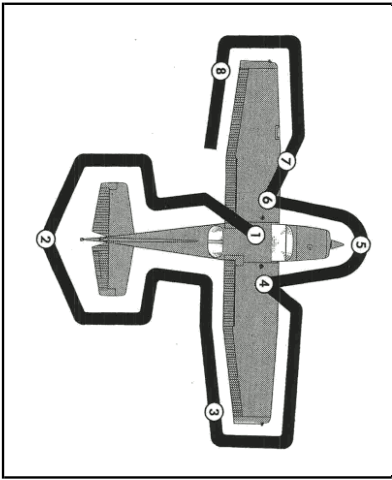
MTOM = 1157 kg / 2550 lb

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
Type of A/C	G172
Wake Turbul. Cat.	L
Equipment	BDFGLORY/S
Departure A/D	LOAV
Departure Time	0830
Speed	N0115
Flight Level	VFR
Route	RADLY
Destination A/D	LJPZ
Total EET	0200
Alternate A/D	LOWG
Other Info	EET/RADLY0040
PBN/B2C2D2O2S2	NAV/SBAS
Endurance	0400
Persons on Bord	1-4
Emerg. Equipm.	ELT
A/C Colour	WHITE
Name PIC	NAME/TEL

OPERATOR		MFU Pilotenclub	
		A-2542 Köttingbrunn	
		Flugplatz 1, Top 1	
		www.mfu-pilotenclub.at	
		+43 2252 77340	
CONTACT		Tower LOAV	+43 1 700729201
		Maint. LOAV	+43 2252 790894
		AIS	+43 51703 3211
		MET	+43 51703 3443
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	15 knots
COM FAIL		Clear to Land Return to Landing Continue Circling A/D unsafe, don't Land Go around this A/C if no clearance Go around - wait for clearance Do not Land	

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	
Master ALT1/BAT	ON	
Fuel Quantity	CHECK	
Avionics Master	ON	
Avionics Fan	AUDIBLE	
Avionics Master	OFF	
Alt. Static Air	PUSH OFF	
Annunciator Panel	TEST	

BATTERY		
Fuel Selector	BOTH	
Fuel Shutoff Valve	ON	
Flaps	EXTEND	
Pitot Heat	ON/CHECK	
Master ALT/BAT	OFF	
Baggage Door	CHECK	

2 EMPENNAGE		
21 Tail Tiedown	DISCON	
22 Ctrl. Surfaces	CHECK	
23 Elevator Trim Tab	CHECK	
24 Antennas	CHECK	

3 RIGHT WING - Trailing Edge		
25 Flaps	CHECK	
26 Aileron	CHECK	

4 RIGHT WING		
27 Wing Tiedown	DISCON	
28 Main Wheel Tire	CHECK	
29 Fuel Tank	5x DRAIN	
30 Fuel Quantity	CHECK	
31 Fuel Filler Cap	SECURE	
32 Filler Cap Vent	CLEAR	

CRUISE PERFORMANCE

CONDITIONS:
2550 Pounds
Recommended Lean Mixture

Druck- höhe ft	1/min	20°C ÜNTER STANDARDTEMP			STANDARD- TEMPERATUR			20°C ÜBER STANDARDTEMP		
		%	KTAS	1/h	%	KTAS	1/h	%	KTAS	1/h
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
4000	2100	47	92	26,2	44	90	25,0	42	89	23,9
	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
6000	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
	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
60 AROUND	Throttle FULL FWD
	Flaps 20°
	Climb Speed 60 KIAS
	Flaps 10°
	400 ft AGL - Safe Speed CHECK
	Speed 65 KIAS
Flaps UP	

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

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

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

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

8 LEFT WING - Trailing Edge	
50	Aileron CHECK
51	Flaps CHECK

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

ENGINE START	
1	Throttle 6-8 mm OPEN
2	Mixture IDLE CUTOFF
3	Master ALT/BAT ON
4	Beacon ON
COLD ONLY	Fuel Pump ON
	Mixture 3-5 SEC RICH
COLD ONLY	Fuel Flow 12-19 Ltr/H
	Mixture IDLE CUTOFF
COLD ONLY	Fuel Pump OFF
	Prop Area CLEAR
10	Ignition START
11	Mixture when fires RICH
12	Oil Press. < 30 sec IN RANGE
13	ACL AS REQ
14	Nav Lights AS REQ
15	Avionics Master ON
16	COM ON
17	A/P Selftest + Horn CHECK
18	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	
7 Fuel Pump	ON	
8 Mixture	3-5-SEC RICH	
9 Fuel Flow	12-19 Lt/H	
10 Mixture	IDLE CUTOFF	
11 Fuel Pump	OFF	
12 Ignition	START	
13 Mixture when fires	RICH	
14 Oil Press. < 30 sec	IN RANGE	
15 Ext. Battery	DISCONN	
16 ACL	AS REQ	
17 Nav Lights	AS REQ	
18 Avionics Master	ON	
19 COM	ON	
20 A/P Selftest + Horn	CHECK	
21 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	
13 Throttle	1800 rpm	
14 Ignition R-B-L-B	CHECK	
15 Drop max 150 rpm	CHECK	
16 Diff L/R max 50 rpm	CHECK	
17 Ignition Both	CONFIRM	
18 VAC Indicator	CHECK	
19 Engine Instruments	CHECK	
20 Ammeter/Voltmeter	CHECK	
21 Annunciators	CHECK	
22 Throttle	1000 rpm	
23 Friction Lock	ADJUST	
24 ACL	AS REQ	
25 COM & Avionics	SET	
26 Autopilot	ENGAGE	
27 Flight Controls	VERRIDE	
28 A/P - Baro	SET QNH	
29 A/P DISC+Horn	PRESS & VFY	

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	

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	

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	