



# Aircraft Checklist

MFU - Pilotenclub - LOAV



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 Bord	1-4
	Emerg. Equipm.	ELT
	A/C Colour	WHITE
	Name PIC	NAME/TEL

<b>OPERATOR</b>	<b>MFU Pilotenclub</b>	
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<b>FUEL</b>	Fuel	AVGAS 100LL
	Maximum Fuel	56 USG
	Unusable Fuel	3 USG

<b>OIL</b>	Shell Aero	15W-50
	Minimum	5 quarts
	Maximum	8 quarts

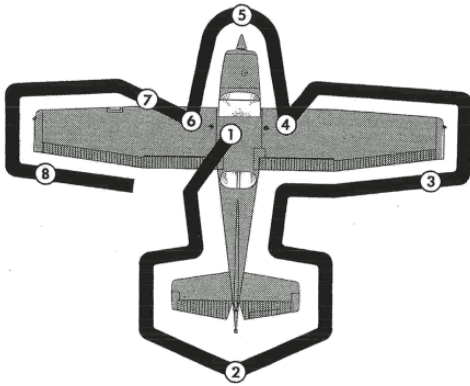
<b>TIRE</b>	Front Tire	45 psi
	Main Tires	42 psi

<b>SPEED</b>	V <sub>S0</sub> (Stall- Flaps max)	40 KIAS
	V <sub>S1</sub> (Stall- Flaps 0)	48 KIAS
	V <sub>G</sub> (best glide/Flaps0)	68 KIAS
	Max. Demo. X-Wind	20 knots

<b>COM FAIL</b>		Clear to Land	
		Return to Landing	
		Continue Circling	
		A/D unsafe, don't Land	
		Land at this A/D and proceed to Apron - wait for Clearance	

Consult POH/AFM for "Warnings, Cautions and additional Information"

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

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

**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

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**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

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
COLD ONLY	Fuel Pump	ON
	Mixture	3-5 SEC RICH
	Fuel Flow	12-19 Ltr/H
	Mixture	IDLE CUTOFF
	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


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**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
<b>COLD ONLY</b>	Fuel Pump	ON
	Mixture	3-5 SEC RICH
	Fuel Flow	12-19 Ltr/H
	Mixture	IDLE CUTOFF
	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	<b>Elevator Trim</b>	<b>T/O</b>
<b>MAGNETOS</b>	Throttle	1800 rpm
	Ignition R-B-L-B	CHECK
	Drop max 150 rpm	CHECK
	Diff L/R max 50 rpm	CHECK
	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	OVERRIDE
28	A/P - Baro	SET QNH
29	A/P DISC+Horn	PRESS & VFY


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

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

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

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

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	<b>57 KIAS</b>
8	400 ft AGL - Safe Speed	CHECK
9	Climb Speed	<b>&gt;60 KIAS</b>
10	Flaps	UP

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

**LANDING**

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

GO AROUND	Throttle	FULL FWD
	Flaps	20°
	Climb Speed	<b>60 KIAS</b>
	Flaps	10°
	400 ft AGL - Safe Speed	CHECK
	Speed	<b>65 KIAS</b>
	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 (Flps Up)	<b>65-75 KIAS</b>
2	Flaps	FULL
3	Airspeed	<b>61 KIAS</b>
4	Trim	ADJUST
5	PWR (after Obst. cleared)	IDLE
6	Touchdown	MAIN WHEELS
7	Brakes	HEAVILY
8	Flaps	UP

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## 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
	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

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## 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