



Aircraft Checklist

MFU - Pilotenclub - LOAV



3fly.at

OE-DCL

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	OE-DCL
8	Flight Rules	V,I,Y,Z
	Type of Flight	G
9	Type of A/C	C172
	Wake Turbul. Cat.	L
10	Equipment	BDFGLORY/H
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

OPERATOR

MFU Flugvermietung GmbH

A-2542 Kottingbrunn

Flugplatz 1, Top 1

UID ATU80021129

+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

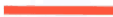
TIRE

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	15/20 kts

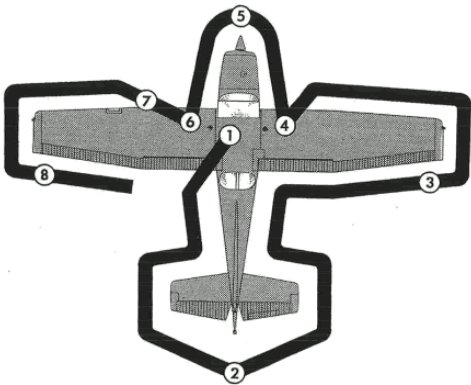
COM FAIL

	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"

This document does not replace POH/AFM - (DCL 2023 V2.7)

PREFLIGHT



1 CABIN

1	Pitot Cover	REMOVE
2	POH	ON BOARD
3	G1000 Ref. Book	ON BOARD
4	Mass & Balance	IN LIMITS
5	Parking Brake	SET
6	Control Wheel Lock	REMOVE
7	Magnetos	OFF
8	Avionics BUS 1 & 2	OFF
BATTERY	Master ALT/BAT	ON
	PFD	VERIFY ON
	Fuel Quantity	CHECK
	Low Fuel L / R Annunc.	CHECK
	Oil Pressure Annunc.	CHECK
	Low Vac. Annunc.	CHECK
	Avionic BUS 1	ON
	Fwd Fan Noise	CHECK
	Avionic BUS 1	OFF
	Avionic BUS 2	ON

BATTERY	Aft Fan Noise	CHECK
	Avionic BUS 2	Off
	Pitot Heat	ON / CHECK
	Pitot Heat	OFF
	Low Volts Annunc.	CHECK
	Master ALT/BAT	OFF
25	Trim	TAKEOFF
26	Fuel Selector	BOTH
27	Alt. Static Air	PUSH OFF
28	Fire Extinguisher	CHECK

2 EMPENNAGE

29	Baggage Door	CHECK
30	Tail Tiedown	DISCON
31	Ctrl. Surfaces	CHECK
32	Elevator Trim Tab	CHECK
33	Antennas	CHECK

3 RIGHT WING - Trailing Edge

34	Flaps	CHECK
35	Aileron	CHECK

4 RIGHT WING

36	Wing Tiedown	DISCON
37	Main Wheel Tire	CHECK
38	Fuel Tank 	DRAIN 5x
39	Fuel Quantity	CHECK
40	Fuel Filler Cap	SECURE
41	Filler Cap Vent	CLEAR

5 NOSE		
42	Fuel Strainer	3x DRAIN
43	Oil Level	CHECK
44	Dipstick/Filler Cap	SECURE
45	Engine Air Inlets	CHECK
46	Prop & Spinner	CHECK
47	Air Filter	CHECK
48	Wheel Strut /Tire	CHECK
49	Static Source Port	CLEAR



6 LEFT WING		
50	Fuel Quantity	CHECK
51	Fuel Filler Cap	SECURE
52	Filler Cap Vent	CLEAR
53	Fuel Tank	DRAIN 5x
54	Main Wheel Tire	CHECK



7 LEFT WING - Leading Edge		
55	Fuel Tank Vent	CHECK
56	Stall Warning	CHECK
57	Wing Tiedown	DISCON
58	LDG & Taxi Light	CHECK



8 LEFT WING - Trailing Edge		
59	Aileron	CHECK
60	Flaps	CHECK

BEFORE 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	Avionic BUS 1 & 2	OFF
8	Fuel Selector	BOTH
9	Fuel Shutoff Valve	ON

ENGINE START		
1	Throttle	6 mm OPEN
2	Mixture	IDLE CUTOFF
3	STBY Batt	TEST 10 SEC
4	Green Test Lamp	VERIFY ON
5	STBY Batt	ARM
6	Eng. Indic. System	CHECK
7	No Red X Eng. Ind.	VERIFY
8	Bus E: min. 24 Volts	CHECK
9	M Bus: <1.5 Volts	CHECK
10	BATT S Amps	DISCHARGE
11	STBY BATT Annunc.	CHECK
12	Master ALT / BAT	ON
13	Beacon	ON
COLD ONLY	Fuel Pump	ON
	Mixture	3-5 SEC RICH
	Mixture	IDLE CUTOFF
	Fuel Pump	OFF
18	Prop Area	CLEAR
19	Ignition	START
20	Mixture w. fires smoothly	RICH

21	Oil Press. < 30 sec	IN GREEN
22	Amps M BATT	CHARGE
23	Amps BATT S	CHARGE
24	Low Volts Annunc.	CHECK OFF
25	Nav Lights	AS REQ
26	Avionics BUS 1 & 2	ON
27	G1000 Nav Data	CHECK
TAXI	Chocks Removed	CHECK
	Brakes L & R	CHECK
	Flight Instruments	CHECK

FLOODED ENGINE START		
1	Fuel Pump	OFF
2	Mixture	IDLE-CUTOFF
3	Throttle	1/2 - FULL
4	Ignition	START
5	Mixture w. Fires Smoothly	RICH
6	Throttle	1000 rpm

ENGINE START - Ext. Power		
1	Throttle	6 mm OPEN
2	Mixture	IDLE CUTOFF
3	STBY Batt	TEST 10 SEC
4	Green Test Lamp	VERIFY ON
5	STBY Batt	ARM
6	Eng. Indic. System	CHECK
7	No Red X Eng. Ind.	VERIFY
8	Bus E: min. 24 Volts	CHECK
9	M Bus: <1.5 Volts	CHECK
10	BATT S Amps	DISCHARGE
11	STBY BATT Annunc.	CHECK

12	Avionic Bus 1 & 2	OFF
13	Master ALT / BAT	OFF
14	Prop Area	CLEAR
15	External Power	CONNECT
16	Master ALT / BAT	ON
17	Beacon	ON
18	M BUS Volts approx. 28V	CHECK
COLD ONLY	Fuel Pump	ON
	Mixture	3-5 SEC RICH
	Mixture	IDLE CUTOFF
	Fuel Pump	OFF
23	Ignition	START
24	Mixture w. fires smoothly	RICH
25	Oil Press. < 30 sec	IN GREEN
26	Throttle	IDLE
27	External Power	DISCONNECT
28	Throttle 5-10 Minutes	1500 rpm
29	Amps M BATT	CHARGE
30	Amps BATT S	CHARGE
31	Low Volts Annunc.	CHECK OFF
INT. POWER CHECK	Master ALT	OFF
	Ldg & Taxi Lights	ON
	Throttle	IDLE
	Master ALT / BAT	ON
	Throttle	1500 rpm
	Amps M BATT	CHARGE
	Low Volts Annunc.	CHECK OFF
39	Nav Lights	AS REQ
40	Avionics BUS 1 & 2	ON
41	Landing Light	OFF
42	Taxi Light	OFF

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	Flight Instruments	CHECK
7	PFD Baro	SET
8	STBY Altimeter	SET
9	ALT SEL	SET
10	STBY Flight Instr.	CHECK
11	Fuel Quantity	CHECK
12	Mixture	RICH
13	Fuel Selector	BOTH
14	Autopilot	ENGAGE
15	Flight Controls 	OVERRIDE
16	A/P Trim Disc. (red)	PRESS
17	Flight Director	OFF
18	Elevator Trim	T/O

MAGNETOS	Throttle	1800 rpm
	Ignition R-B-L-B	CHECK
	Drop max 175 rpm	CHECK
	Diff L/R max 50 rpm	CHECK
	Ignition	BOTH
	VAC Indicator	CHECK
	Engine Indicators	CHECK
	Ammeters/Voltmeters	CHECK

27	Annunciators	CHECK
28	Throttle Check	IDLE
29	Throttle	~1000 rpm
30	Friction Lock	ADJUST
31	COM	SET
32	NAV	SET
33	FMS / GPS FPL	AS DESIRED
34	Transponder	SET
35	CDI / NAV Source 	SELECT
36	Cabin PWR 12V	OFF
37	Flaps	UP or 10°
38	Cabin Windows	CLOSE
39	Strobe	ON
40	LDG Light	ON
41	Elevator Trim	T/O
42	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 Spd.	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 Slightly	TAIL LOW
7	Climb Speed	56 KIAS
8	400 ft AGL - Safe Spd.	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
4	FMS/COM/NAV	REVIEW

DESCENT		
1	Throttle	AS DESIRED
2	Mixture	ADJUST
3	Altimeters	SET
4	Altitude Preselect	SET
5	CDI NAV Source	SELECT
6	FMS / GPS	REVIEW
7	Fuel Selector	BOTH
8	Flaps	AS DESIRED

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
7	Cabin PWR 12V	OFF

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
GROUND AROUND	Throttle	FULL FWD
	Flaps	20°
	Climb Speed	60 KIAS
	Flaps	10°
	400 ft AGL - Safe Spd.	CHECK
GO	Speed	65 KIAS
	Flaps	UP

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

SECURING ACFT		
1	Parking Brake	SET
2	Taxi Light	OFF
3	ELT (121.5 MHz)	CHECK
4	Throttle	IDLE
5	Flightplan	CLOSE
6	Avionics Master	OFF
7	Electr. Equipment	OFF
8	Mixture	IDLE CUTOFF
9	Magnetos	OFF
10	Beacon	OFF
11	Master ALT/BAT	OFF
12	STBY Batt	OFF
13	Flight Logger	SLIDE CARD
14	Control Wheel Lock	INSTALL
15	Fuel Selector	LEFT/RIGHT

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

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

SHORT FIELD TAKEOFF DISTANCE AT 2550 POUNDS

CONDITIONS:

Flaps 10°

Full Throttle prior to brake release.

Paved, Level, Dry Runway

Zero Wind

Lift Off: 51 KIAS

Speed at 50 Feet: 56 KIAS

Pressure Altitude Feet	0°C		10°C		20°C		30°C		40°C	
	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst	Gnd Roll Feet	Total Feet To Clear 50 Foot Obst
Sea Level	860	1465	925	1575	995	1690	1070	1810	1150	1945
1000	940	1600	1010	1720	1090	1850	1170	1990	1260	2135
2000	1025	1755	1110	1890	1195	2035	1285	2190	1380	2355
3000	1125	1925	1215	2080	1310	2240	1410	2420	1515	2605
4000	1235	2120	1335	2295	1440	2480	1550	2685	1660	2880
5000	1355	2345	1465	2545	1585	2755	1705	2975	1825	3205
6000	1495	2605	1615	2830	1745	3075	1875	3320	2010	3585
7000	1645	2910	1785	3170	1920	3440	2065	3730	2215	4045
8000	1820	3265	1970	3575	2120	3880	2280	4225	2450	4615

NOTE

- Short field technique as specified in Section 4.
- Prior to takeoff from fields above 3000 feet pressure altitude, the mixture should be leaned to give maximum RPM in a full throttle, static run-up.
- Decrease distances 10% for each 9 knots head wind. For operation with tail winds up to 10 knots, increase distances by 10% for each 2 knots.
- For operation on dry grass runway, increase distances by 15% of the "ground roll" figure.

Airspeeds for Normal Operations**TAKEOFF**

V_X Flaps UP	62 KIAS
V_Y Flaps UP	74 KIAS
Short Field, Flaps 10°, 50 ft	56 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