



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

MFU Flugbetrieb GmbH

A-2542 Kottlingbrunn
 Flugplatz 1, Top 1
 UID ATU37004807
 +43 2252 77340

OPERATOR

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

Tower LOAV	+43 1 700729201
Maint. LOAV	+43 2252 790894
AIS	+43 51703 3211
MET	+43 51703 3443

CONTACT

Fuel	AVGAS 100LL
Maximum Fuel	56 USG
Unusable Fuel	3 USG

FUEL

Shell Aero	15W-50
Minimum	5 quarts
Maximum	8 quarts

OIL

Front Tire	45 psi
Main Tires	42 psi

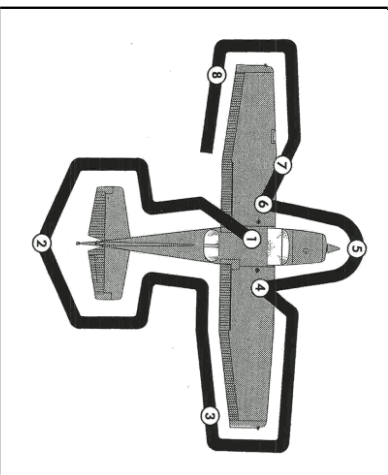
TIRE

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

SPEED

Clear to Land	Green
Return to Landing	Green
Continue Circling	Red
A/D unsafe, don't Land	Red
Request this A/D, increase to Apron - Wait for Clearance	White
Do not Land	White

COM FAIL

PREFLIGHT

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

BATTERY▼ **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
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


▼ **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

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

This document does not replace POH/AFM - (DCL 2022 V2.6)

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

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

5 NOSE

42 Fuel Strainer	3x DRAIN
43 Oil Level	CHECK
44 Dipstick/Filler Cap	SECURE
45 Engine 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

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
Fuel Pump	ON
Mixture	3-5 SEC RICH
Mixture	IDLE CUTOFF
Fuel Pump	OFF
Prop Area	CLEAR
Ignition	START
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
	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
19	Fuel Pump	ON
20	Mixture	3-5 SEC RICH
21	Mixture	IDLE CUTOFF
22	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	1500 rpm
29	Amps M BATT	CHARGE
30	AMPS BATT S	CHARGE
31	Low Volts Annunc.	CHECK OFF
32	Master ALT	OFF
33	Ldg & Taxi Lights	ON
34	Throttle	IDLE
35	Master ALT / BAT	ON
36	Throttle	1500 rpm
37	Amps M BATT	CHARGE
38	Low Volts Annunc.	CHECK OFF
39	Nav Lights	AS REQ
40	Avionics BUS 1 & 2	ON
41	Landing Light	OFF
42	Taxi Light	OFF

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	
	Total Feet	Gnd Roll Clear 50 Foot Obst	Total Feet	Gnd Roll Clear 50 Foot Obst	Total Feet	Gnd Roll Clear 50 Foot Obst	Total Feet	Gnd Roll Clear 50 Foot Obst	Total Feet	Gnd Roll 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.

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
2000	2550	83	117	77	118	72	117	37,5
	2500	78	115	73	115	68	115	35,6
	2400	69	111	64	110	60	109	32,2
	2300	61	105	57	104	53	102	29,2
	2200	53	99	50	97	47	95	26,2
4000	2100	47	92	44	90	42	89	23,9
	2600	83	120	77	120	72	119	37,1
	2550	79	118	73	117	68	117	35,6
	2500	74	115	69	115	64	114	33,7
	2400	65	110	61	109	57	107	30,7
6000	2300	58	104	54	102	51	101	27,7
	2200	51	98	48	96	45	94	25,4
	2100	45	91	42	89	40	87	23,1
	2650	83	122	77	122	72	121	37,1
	2600	78	120	73	119	68	118	35,6
2500	2500	70	115	65	114	60	112	32,2
	2400	62	109	57	108	54	106	29,2
	2300	54	103	51	101	48	99	26,5
2200	48	96	45	94	43	92	24,3	

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
24	VAC Indicator	CHECK
25	Engine Indicators	CHECK

26	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

Throttle	FULL FWD
Flaps	20°
Climb Speed	60 KIAS
Flaps	10°
400 ft AGL - Safe Spd.	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 Obst. cleared)	IDLE
6 Touchdown	MAIN WHEELS
7 Brakes	HEAVILY
8 Flaps	UP
Throttle	FULL FWD
Flaps	20°
Climb Speed	60 KIAS
Flaps	10°
400 ft AGL - Safe Spd.	CHECK
Speed	65 KIAS
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	IDLE
4 Flightplan	CLOSE
5 Avionics Master	OFF
6 Electr. Equipment	OFF
7 Mixture	IDLE CUTOFF
8 Magnetos	OFF
9 Beacon	OFF
10 Master ALT/BAT	OFF
11 STBY Batt	OFF
12 Flight Logger	SLIDE CARD
13 Control Wheel Lock	INSTALL
14 Fuel Selector	LEFT/RIGHT