

Airspeeds for Normal Operations

TAKEOFF

V_X Flaps UP 65-68 KIAS
 V_Y Flaps UP 74-80 KIAS
 Short Field, Flaps 20°, 50 ft 58 KIAS
 Cruise - Climb Flaps UP 85-95 KIAS

LANDING

Flaps UP 70-80 KIAS
 Flaps FULL 60-70 KIAS
 Short Field Flaps FULL 60 KIAS
 Max. demo X-Wind 15 knots
 V_{FE} Flaps UP-10° 140 KIAS
 V_{FE} Flaps 10°-20° 120 KIAS
 V_{FE} Flaps 20°-FULL 100 KIAS

CRUISE

V_A Maneuvering 91-110 KIAS
 V_{NO} Max turbul. Air 140 KIAS
 V_{NE} Max Airspeed 175 KIAS
 Max. Window open speed 175 KIAS

Airspeeds for Emergency Operations

V_A Maneuvering 91-110 KIAS
 Best Glide Flaps UP 76 KIAS
 Eng. Failure aft. T/O Flaps 10°-Full 70 KIAS
 Eng. Failure aft. T/O Flaps UP 75 KIAS



3fly.at

Aircraft Checklist

MFU - Pilotenclub - LOAV



OE-KCS

CESSNA 182T

MTOM = 1406 kg / 3100 lb

A/C-Size: W: 11.0 m H: 2.9m L: 8.8 m

FPL (EXAMPLE)

7	A/C ID	OE-KCS
8	Flight Rules	V,I,Y,Z
	Type of Flight	G
9	Type of A/C	C182
	Wake Turbul. Cat.	L
10	Equipment	BDFGLORY/H
13	Departure A/D	LOAV
	Departure Time	0830
15	Speed	N0135
	Flight Level	VFR
	Route	RADLY
16	Destination A/D	LJPZ
	Total EET	0200
	Alternate A/D	LOWG
18	Other Info	EET/RADLY0030
	PBN/B2C2D2O2S2	NAV/SBAS
19	Endurance	0500
	Persons on Bord	1-4
	Emerg. Equipm.	ELT
	A/C Colour	WHITE/RED
	Name PIC	NAME/TEL

OPERATOR

MFU Pilotenclub

A-2542 Kottlingbrunn

Flugplatz 1, Top 1

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FUEL

Fuel AVGAS 100LL
 Maximum Fuel 92 USG
 Unusable Fuel 5 USG

OIL

Shell Aero  15W-50
 Minimum 5 quarts
 Maximum 9 quarts






















TIRE

Front Tire 49 psi
 Main Tires 42 psi

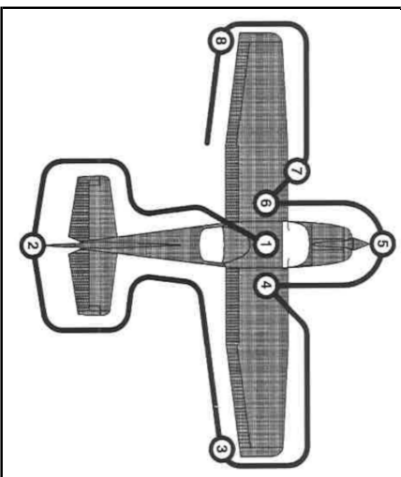
SPEED

V_{S0} (Stall- Flaps max) 41 KIAS
 V_{S1} (Stall- Flaps 0) 51 KIAS
 V_G (best glide/Flaps 0) 76 KIAS
 Max. Demo. X-Wind 15 kts

COM FAIL

 Clear to Land
 Return to Landing
 Continue Circling
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PREFLIGHT



A	Aft Fan Noise	CHECK
B	Avionic BUS 2	Off
A	Pitot Heat	ON / CHECK
T	Pitot Heat	OFF
T	Stall Warning System	CHECK
E	Low Volts Annunc.	SHOWN
R	Master ALT/BAT	OFF
26	Trim Elevator & Rudder	TAKEOFF
27	Fuel Selector	BOTH
28	Alt. Static Air	PUSH OFF
29	Fire Extinguisher	CHECK
30	Seats	ADJUST

1 CABIN

1	Pitot Cover	REMOVE / CHECK
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 L / R	CHECK
	Low Fuel L / R Annunc.	NOT SHOWN
	Oil Pressure Annunc.	CHECK
	Low Vac. Annunc.	SHOWN
	Avionic BUS 1	ON
	Fwd Fan Noise	CHECK
	Avionic BUS 1	OFF
	Avionic BUS 2	ON

2 EMPENNAGE

31	Baggage and Door	CHECK
32	Rudder Gust Lock	REMOVE
33	Tail Tiedown	DISCON
34	Ctrl. Surfaces	CHECK
35	Trim Tabs	CHECK
36	Antennas	CHECK

3 RIGHT WING - Trailing Edge

37	Flaps	CHECK
38	Aileron	CHECK

CRUISE PERFORMANCE
PRESSURE ALTITUDE 8000 FEET

CONDITIONS:
3100 Pounds
Recommended Lean Mixture
Cowl Flaps CLOSED

RPM	MP	20°C BELOW STANDARD TEMP -21°C				STANDARD TEMPERATURE -1°C				20°C ABOVE STANDARD TEMP 19°C			
		% MCP	KTAS	GPH	% MCP	KTAS	GPH	% MCP	KTAS	GPH			
2400	21	74	139	12.9	72	139	12.5	69	140	12.1			
	20	69	134	12.1	67	135	11.7	65	135	11.4			
	19	64	130	11.4	62	130	11.0	60	130	10.7			
2300	18	59	125	10.6	57	124	10.3	55	124	10.1			
	21	72	136	12.5	69	137	12.0	67	137	11.7			
	20	67	132	11.7	64	132	11.3	62	132	11.0			
2200	19	62	128	11.0	60	127	10.7	58	127	10.4			
	18	57	122	10.3	55	122	10.1	53	121	9.8			
	21	69	134	12.0	66	134	11.6	64	134	11.3			
2100	20	64	130	11.3	62	130	11.0	60	129	10.7			
	19	60	125	10.7	57	125	10.4	55	124	10.1			
	18	55	120	10.1	53	119	9.8	51	119	9.5			
2000	21	65	131	11.5	63	131	11.2	61	131	10.8			
	20	61	127	10.9	59	126	10.6	57	126	10.3			
	19	57	122	10.3	55	121	10.0	53	121	9.7			
2000	18	52	117	9.7	50	116	9.4	49	115	9.2			
	21	62	128	11.0	60	127	10.7	58	127	10.4			
	20	58	123	10.4	56	123	10.1	54	122	9.9			
	19	54	118	9.9	52	118	9.6	50	117	9.4			

NOTE

- Maximum cruise power is 80% MCP. Power settings above 80% are listed to aid interpolation.
- For best economy, operate at peak EGT.

CRUISE PERFORMANCE PRESSURE ALTITUDE 6000 FEET

CONDITIONS:

3100 Pounds
Recommended Lean Mixture
Cowl Flaps CLOSED

RPM	MP	20°C BELOW STANDARD TEMP -17°C			STANDARD TEMPERATURE 3°C			20°C ABOVE STANDARD TEMP 23°C		
		% MCP	KTAS	GPH	% MCP	KTAS	GPH	% MCP	KTAS	GPH
2400	23	82	142	14.2	79	143	13.6	76	144	13.2
	22	77	138	13.3	74	139	12.8	72	139	12.4
	21	72	135	12.5	69	135	12.1	67	135	11.7
	20	67	130	11.7	65	130	11.4	62	131	11.1
2300	19	62	126	11.0	60	126	10.7	58	125	10.4
	23	79	140	13.6	76	141	13.1	73	141	12.7
	22	74	136	12.8	71	137	12.4	69	137	12.0
	21	69	132	12.1	67	133	11.7	64	133	11.4
2200	20	65	128	11.4	62	128	11.0	60	128	10.7
	19	60	124	10.7	58	123	10.4	56	123	10.1
	23	76	137	13.1	73	138	12.6	70	138	12.3
	22	71	134	12.4	69	134	12.0	66	135	11.6
2100	21	67	130	11.7	64	130	11.3	62	130	11.0
	20	62	126	11.0	60	126	10.7	58	125	10.4
	19	58	121	10.4	56	121	10.1	54	120	9.9
	23	72	135	12.5	69	135	12.1	67	135	11.7
2000	22	68	131	11.8	65	131	11.5	63	131	11.1
	21	63	127	11.2	61	127	10.9	59	127	10.6
	20	59	123	10.6	57	122	10.3	55	122	10.0
	19	55	118	10.0	53	118	9.8	51	117	9.5

NOTE

- Maximum cruise power is 80% MCP. Power settings above 80% are listed to aid interpolation.
- For best economy, operate at peak EGT.

4 RIGHT WING

39	LDG & Taxi/Reco. Light	CHECK
40	Wing Tiedown	DISCON
41	Fuel Tank Vent	CLEAR
42	Main Wheel Tire	CHECK
43	Fuel Tank	DRAIN 5x
44	Fuel Quantity	CHECK LVL.
45	Fuel Filler Cap	SECURE
46	Filler Cap Vent	CLEAR

5 NOSE

47	Static Port Right	CLEAR
48	Fuel Strainer / Drains	2x DRAIN
49	Engine Inlets	CHECK
50	Prop & Spinner	CHECK
51	Air Filter	CHECK
52	Wheel Strut / Tire	CHECK
53	Oil Level	CHECK
54	Dipstick/Filler Cap	SECURE
55	Static Port Left	CLEAR

6 LEFT WING

56	Fuel Quantity	CHECK
57	Fuel Filler Cap	SECURE
58	Filler Cap Vent	CLEAR
59	Fuel Tank	DRAIN 5x
60	Main Wheel Tire	CHECK

7 LEFT WING - Leading Edge


61	Fuel Tank Vent	CLEAR
62	Stall Warning	CHECK
63	Wing Tiedown	DISCON
64	LDG & Taxi/Reco. Light	CHECK

8 LEFT WING - Trailing Edge

65	Aileron	CHECK
66	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	Cowl Flaps	OPEN
9	Fuel Selector Valve	BOTH

ENGINE START	
1 Throttle	6 mm OPEN
2 Propeller	FULL FWD
3 Mixture	IDLE CUTOFF
4 STBY Batt	TEST 10 SEC
5 Green Test Lamp	VERIFY ON
6 STBY Batt	ARM
7 Eng. Indic. System	CHECK
8 No Red X Eng. Ind.	VERIFY
9 Bus E.: min. 24 Volts	CHECK
10 M Bus: < 1.5 Volts	CHECK
11 BATT S Amps	DISCHARGE
12 STBY BATT Annunc.	CHECK/SHOWN
13 Propeller Area	CLEAR
14 Tow Bar	STOWED
15 Master ALT / BAT	ON
16 Beacon	ON
Fuel Pump 	ON
Mixture	3-5-SEC RICH
Mixture	IDLE CUTOFF
Fuel Pump	OFF
Ignition	START
Mixture w. Fires Smoothly	RICH
Oil Press. < 30 sec	IN GREEN
Amps M BATT	CHARGE
Amps BATT S	CHARGE
Low Volts Annunc.	CHECK OFF
Nav Lights	AS REQ
Avionics BUS 1 & 2	ON
Taxi Lights	RECOGNITION
G1000 Nav Data	CHECK
Taxi Leaning Ops.	EXECUTE

ENGINE START Contd.	
Brakes L & R	CHECK
Taxi 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

FUEL VAPOR PROCEDURE	
1 Brakes	SET
2 Mixture	FULL RICH
3 Set Throttle RPM	1800-2000
4 Maintain Power	2 MINUTES
5 Smooth Engine Run	CHECK
6 Set Throttle	IDLE
7 Smooth Engine Run	CHECK
8 Fuel Pump	AS REQU
9 Taxi Leaning Ops.	EXECUTE

ALL TAXI LEANING OPS	
1 Brakes	SET
2 Set Throttle RPM	1200
3 Lean Mixture 	MAX RPM
4 Set Throttle RPM	800-1000
5 Brakes	RELEASE

CRUISE PERFORMANCE PRESSURE ALTITUDE 4000 FEET

CONDITIONS:
3100 Pounds
Recommended Lean Mixture
Cowl Flaps CLOSED

RPM	MP	20°C BELOW STANDARD TEMP -13°C			STANDARD TEMPERATURE 7°C			20°C ABOVE STANDARD TEMP 27°C		
		% MCP	KTAS	GPH	% MCP	KTAS	GPH	% MCP	KTAS	GPH
2400	25	---	---	---	---	---	---	---	---	---
	24	84	140	14.6	81	142	14.0	83	146	14.4
	23	79	138	13.7	76	139	13.2	78	143	13.6
	22	74	134	12.9	72	135	12.5	74	139	12.8
	21	70	130	12.1	67	131	11.7	69	135	12.1
	20	65	126	11.4	62	126	11.1	60	131	11.4
2300	25	---	---	---	---	---	---	---	---	---
	24	81	138	14.0	78	140	13.5	80	144	13.8
	23	76	135	13.2	74	137	12.8	75	141	13.1
	22	72	132	12.5	69	133	12.1	71	137	12.4
	21	67	128	11.7	65	128	11.4	67	133	11.7
	20	62	124	11.1	60	124	10.7	62	129	11.1
2200	25	82	139	14.2	79	141	13.7	77	142	13.2
	24	78	136	13.4	75	138	13.0	72	138	12.6
	23	73	133	12.7	71	134	12.3	68	134	11.9
	22	69	130	12.0	66	130	11.7	64	130	11.3
	21	65	126	11.4	62	126	11.0	60	126	10.7
	20	60	122	10.7	58	122	10.4	56	121	10.2

NOTE

- Maximum cruise power is 80% MCP. Power settings above 80% are listed to aid interpolation.
- For best economy, operate at peak EGT.

LANDING	
1	Airspeed (Flaps Up) 70-80 KIAS
2	Flaps: < 140 KIAS UP - 10°
3	Flaps: < 120 KIAS 10° - 20°
4	Flaps: < 100 KIAS 20° - FULL
5	Airspeed (Flaps Full) 60-70 KIAS
6	Trims ADJUST
7	Touchdown MAIN WHEELS
8	Nose Wheel LOWER GENTLY
9	Brakes MINIMUM
	Throttle FULL FWD
	Propeller 2400 RPM
	Flaps 20°
	Climb Speed 55 KIAS
	~400ft AGL - Safe Spd. CHECK
	Speed 70 KIAS
	Flaps Slowly RETRACT
	Cowl Flaps OPEN

SHORT FIELD LANDING	
1	Airspeed Flaps UP 70-80 KIAS
2	Flaps < 100 KIAS FULL
3	Airspeed until Flare 60 KIAS
4	Trim Controls ADJUST
5	PWR after Obst. cleared IDLE
6	Touchdown MAIN WHEELS
7	Brakes HEAVILY
8	Flaps UP
9	Yoke FULL BACK

Throttle	FULL FWD
Propeller	2400 RPM
Flaps	20°
Climb Speed	55 KIAS
~400 ft AGL - Safe Spd.	CHECK
Speed	70 KIAS
Flaps Slowly	RETRACT
Cowl Flaps	OPEN

AFTER LANDING	
1	Flaps UP
2	Cowl Flaps OPEN
3	Pitot Heat OFF
4	Strobes OFF
5	Transponder CHECK GND
6	LDG Light TAXI/RECO

SECURING ACFT	
1	Parking Brake SET
2	ELT (121.5 MHz) CHECK
3	Throttle IDLE
4	Flightplan CLOSE
5	Electr. Equipment OFF
6	Avionics BUS 1 & 2 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

ENGINE START - Ext. Power	
1	Throttle 6 mm OPEN
2	Propeller FULL FWD
3	Mixture IDLE CUTOFF
4	STBY Batt TEST 10 SEC
5	Green Test Lamp VERIFY ON
6	STBY Batt ARM
7	Eng. Indic. System CHECK
8	No Red X Eng. Ind. VERIFY
9	Bus E: min. 24 Volts CHECK
10	M Bus: < 1.5 Volts CHECK
11	BATT S Amps DISCHARGE
12	STBY BATT Annunc. CHECK
13	Avionic Bus 1 & 2 OFF
14	Master ALT / BAT OFF
15	Prop Area CLEAR
16	External Power CONNECT
17	Master ALT / BAT ON
18	Beacon ON
19	M BUS Volts approx. 28V CHECK
	Fuel Pump ON
	Mixture 3-5 SEC RICH
	Mixture IDLE CUTOFF
	Fuel Pump OFF
	Ignition START
	Mixture w. fires smoothly RICH
	Oil Press. < 30 sec IN GREEN
	Throttle IDLE
	External Power DISCONNECT

29	Throttle 5 Minutes	1500 rpm
30	Amps M BATT	CHARGE
31	AMPS BATT S	CHARGE
32	Low Volts Annunc.	CHECK OFF
33	Master ALT	OFF
34	Ldg & Taxi/Reco. Lights	ON
35	Throttle	IDLE
36	Master ALT / BAT	ON
37	Throttle	1500 rpm
38	Amps M BATT ON	CHARGE
39	Low Volts Annunc. ON	CHECK OFF
40	Nav Lights	AS REQ
41	Avionics BUS 1 & 2	ON
42	Taxi Lights	RECOGNITION

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 (PFD)	CHECK
7	PFD Baro	SET
8	STBY Altimeter	SET
9	ALT SEL	SET
10	STBY Flight Instr.	CHECK
11	Fuel Quantity ¹⁸²	CHECK
12	Mixture	RICH
13	Fuel Selector	BOTH
14	Autopilot	ENGAGE
15	Flight Controls ¹⁸²	VERRIDE
16	A/P Trim Disc. (Red)	PRESS
17	Flight Director	OFF
18	Elevator Trim	T/O
19	Rudder Trim	T/O
20	Throttle	1800 rpm
21	Ignition R-B-L-B	CHECK
22	Drop max 175 rpm	CHECK
23	Diff L/R max 50 rpm	CHECK
24	Ignition	BOTH
25	Prop Control	CYCLE
26	Prop Control	FULL FWD
27	VAC Indicator	CHECK
28	Engine Indicators	CHECK

29	Annunziators/Voltmeters	CHECK
30	Annunciators	NOT SHOWN
31	Throttle Check	IDLE
32	Throttle	< 1000 rpm
33	Friction Lock	ADJUST
34	COM	SET
35	NAV	SET
36	FMS / GPS FPL	AS DESIRED
37	Transponder	SET
38	CDI / NAV Source ¹⁸²	SELECT
39	Cabin PWR 12V	OFF
40	Flaps ¹⁸²	UP/10°/20°
41	Cowl Flaps	OPEN
42	Cabin Windows	CLOSE
43	Strobes	ON
44	LDG Light	ON
45	Elevator Trim	T/O
46	Brakes	RELEASE

LINE UP / TAKEOFF		
1	Flaps ¹⁸²	UP/10°/20°
2	Throttle	FULL FWD
3	Propeller	2400 RPM
4	Mixture	RICH
5	Rotate	50-60 KIAS
6	Climb Speed	70-80 KIAS
7	~400 ft AGL - Safe Spd.	CHECK
8	Flaps Slowly	RETRACT

SHORT FIELD TAKEOFF		
1	Flaps	20°
2	Brakes	APPLY
3	Mixture	RICH
4	Throttle	FULL FWD
5	Propeller	2400 RPM
6	Brakes	RELEASE
7	Elevator Slightly	TAIL LOW
8	Climb Spd. Flap 20°	58 KIAS
9	Clear of Obstacles	CHECK
10	Climb Speed	>70 KIAS
11	Flaps Slowly	RETRACT

ENROUTE CLIMB		
1	Climb Speed	85-95 KIAS
2	Throttle	23 INCH
3	Propeller ¹⁸²	2400 RPM
4	Mixture ¹⁸²	15 GPH / RICH
5	Fuel Selector	BOTH
6	Cowl Flaps	OPEN AS REQ

MAX. PERFORMANCE CLIMB		
1	Speed @ Sea Level	80 KIAS
2	Speed @ 10000ft.	74 KIAS
3	Throttle	FULL FWD
4	Propeller ¹⁸²	2400 RPM
5	Mixture ¹⁸²	FULL RICH
6	Fuel Selector	BOTH
7	Cowl Flaps	OPEN

CRUISE		
1	Power ¹⁸²	AS REQU
2	Trim Controls	ADJUST
3	Mixture ¹⁸²	LEAN
4	Cowl Flaps	CLOSE
5	FMS/COM/NAV	REVIEW

DESCENT		
1	Power	AS REQU
2	Mixture	ADJUST
3	Cowl Flaps	CLOSED
4	PFD Baro	SET
5	STBY Altimeter	SET
6	ALT SEL	SET
7	CDI NAV Source	SELECT
8	FMS / GPS ¹⁸²	REVIEW
9	Fuel Selector	BOTH
10	Flaps 10°	< 140 KIAS
11	Flaps 20°	< 120 KIAS
12	Flaps Full	< 100 KIAS
13	Reco. Lights	AS REQ.

BEFORE LANDING		
1	Seat Backs	UPRIGHT
2	Seats/Seat Belts	SECURE
3	Fuel Selector	BOTH
4	Mixture	RICH
5	Propeller	Full FWD
6	Landing Light	ON
7	Autopilot	OFF
8	Cabin PWR 12V	OFF