Aircraft Checklist

MFU - Pilotenclub - LOAV

3fly.at

D-EEKE

Beech Bonanza F33A (CE-1145)

MTOM = 1542 kg / 3400 lb

A/C-Size: W: 10.3 m H: 2.5 m L: 8.2 m

OPERATOR

MFU Flugvermietung GmbH
A-2542 Kottingbrunn
Flugplatz 1, Top 1
UID ATU80021129
+43 2252 77340

FPL (EXAMPLE)		
7	A/C ID	D-EEKE
8	Flight Rules	V,I,Y,Z
	Type of Flight	G
9	Type of A/C	BE33
	Wake Turbul. Cat.	L
10	Equipment	BDFGLORY/S
13	Departure A/D	LOAV
	Departure Time	0830
15	Speed	N0155
	Flight Level	090
	Route	SNU GRZ
16	Destination A/D	LJMB
	Total EET	0045
	Alternate A/D	LOWG
18	Other Info	EET/GOLVA0035
	PBN/B2C2D2O2S2	NAV/SBAS
19	Endurance	05:00
	Persons on Bord	2
	Emerg. Equipm.	ELT/PLB
	A/C Colour	WHITE/BROWN
	Name PIC	NAME

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	302 L / 80 gal
Usable Fuel	280 L / 74 gal

OIL

Shell Aero ☞	15W50
Minimum	9 quarts
Minimum	12 quarts

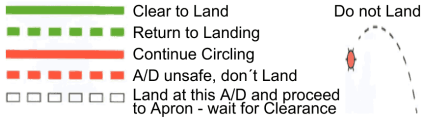
TIRE

Front Tire	40 psi / 2.8 bar
Main Tires	33-40 psi / 2.3-2.8 bar

SPEED

V_S (Stall- Flaps up)	63 KIAS
V_{S0} (Stall- Flaps Full)	51 KIAS
V_G (Flaps up)	105 KIAS
Max. Demo. X-Wind	17 knots

COM FAIL



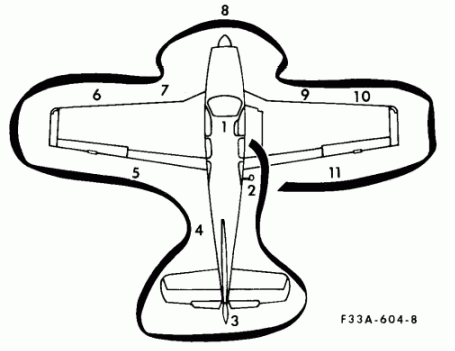
☞ **Consult POH/AFM for "Warnings, Cautions and additional Information"**

This document does not replace POH/AFM - (DEEKE 2026 V1.6)

PREFLIGHT INT. & EXT.

1	Aircraft Papers	ON BOARD
2	Pitot & Static Vent Cover	REMOVE
3	Foreign Objects	CLEAR
4	Control Column	UNLOCKED
5	Cowl Flaps	OPEN
6	Circuit Breakers	ALL IN
7	Magnetos	OFF
8	Keys	REMOVED
9	Mixture	IDLE CUTOFF
10	Avionic Master + Electrics	OFF
BATTERY	Master Switch	ON
	Ldg. Gear Lights	3 GREEN
	Fuel Qty. Not Yellow	CHECK
	Fuel Tank Selector	FULLER TANK
	External Lights	CHECK
	Pitot Heat	CHECK
	Parking Brake	SET
	Stall Warning	CHECK
	Pitot and Lights	OFF
	Master Switch	OFF

EXTERIOR CHECK



1. & 2. Right Fuselage

21	Baggage Door	SECURE
22	Static Press. Vent	CLEAR
23	ELT	ARMED

3. & 4. Empennage

24	Control Surfaces	CHECK
25	Tie Down	REMOVED
26	Postition Light	CHECK
27	Cabin Air Intake	CHECK
28	Static Press. Vent	CLEAR
29	All Antennas	CHECK

5. & 6. Left Wing

30	Flaps	CHECK
31	Aileron	CHECK
32	Wing Tip	CHECK
33	Position Light	CHECK
34	Fuel Tank Quantity	CHECK
35	Filler Cap	SECURE
36	Cabin Air Intake	CHECK
37	Tie Down & Chocks	REMOVE

7. Left Landing Gear

38	Wheel Well Door	CHECK
39	Tire & Strut	CHECK
40	Fuel Sump	DRAIN
41	Fuel Sel. Valve Sump	DRAIN

8. Nose Section	
42 Left Cowl Flap	CHECK
43 Engine Oil 9-11 Qts.	CHECK
44 Oil Cap & Dipstick	SECURE
45 Propeller	VIS. INSP.
46 Wheel Well Door	CHECK
47 Tire and Strut	CHECK
48 Induction Air Intake	CLEAR
49 Landing Lights	CHECK
50 Engine Gen. Condition	CHECK
51 Right Cowl	SECURE
52 Right Cowl Flap	CHECK
53 Chocks	REMOVE
54 Nose Cover	SECURE

▼

9. Right Landing Gear	
55 Wheel Well Door	CHECK
56 Tire & Strut	CHECK
57 Fuel Vent	CHECK
58 Fuel Sump	DRAIN

▼

10. & 11. Right Wing	
59 Cabin Air Intake	CHECK
60 Tie Down & Chocks	REMOVE
61 Fuel Tank Quantity	CHECK
62 Filler Cap	SECURE
63 Position Light	CHECK
64 Wing Tip	CHECK
65 Aileron	CHECK
66 Flap	CHECK

BEFORE ENGINE START	
1 Preflight Check	COMPL
2 Seat & Seatbelts	ADJUST
3 Parking Brake	SET
4 All Electrics	OFF
5 Circuit Breakers	CHECK IN
6 Flap Selector	UP
7 Landing Gear Handle	DOWN
8 Cowl Flaps	OPEN
9 Selector Valve	FULLER TANK
10 All Lights	OFF
11 Emergency Gear Hdl.	STOWED
12 Alternate Static	CLOSED
13 Prop Anti Ice	OFF
14 Battery Switch	ON
15 Fuel Quantity	CHECK*
16 Warning Lights Switch	TEST
17 Gear Lights / Annunc.	CHECK
18 Rudder Pedals / Seat	ADJUSTED
19 Passengers	BRIEFED
20 Seat Belts	FASTENED
21 Fuel Selector Fuller Tank	CHECK*
22 Beacon	ON
23 Propeller Area	CLEAR

* No TakeOff if gages indicate yellow arc
* No TakeOff with less than 13 Gals. in eachTank

ENGINE START

COLD Engine	Throttle	FULL OPEN
	Propeller	HIGH RPM
	Mixture	FULL RICH
	Fuel Pump	ON
	Fuel Flow	STABILIZED
	Fuel Pump	OFF
	Throttle 1cm Open	4 TURNS IN
	Start Switch	START
	Prop. 1000-1200rpm	SET
HOT Engine	Throttle	FULL OPEN
	Propeller	HIGH RPM
	Mixture	FULL LEAN
	Fuel Pump 30-60 Sec.	ON
	Mixture	RICH
	Fuel Flow	STABILIZED
	Fuel Pump	OFF
	Throttle 1cm Open	4 TURNS IN
	Start Switch	START
	Prop. 1000-1200rpm	SET
20	Oil Pressure	IN GREEN
21	Generator Switch	ON
22	Amperemeter	LOADING
23	Engine Indicators	CHECK
24	Avionic Master	ON
25	Annunciator Panel	TEST
26	Autopilot Test	CHECKED

ENGINE START EXT. POWER

1	Alternator & Avionics	OFF
2	Battery Switch	ON
3	Aux. Power Unit	CONNECT
4	Aux. Power Unit 28 Volts	SET
5	Aux. Power Unit	ON
6	Normal Engine Start	PERFORM
7	Aux. Power Unit	OFF
8	Aux. Power Unit	DISCONNECT
9	Alternator Switch	ON

FLOODED ENGINE START

1	Mixture	IDLE-CUTOFF
2	Throttle	FULL FWD
3	Start Switch	START
4	Throttle when fires	IDLE
5	Mixture	FULL RICH

BEFORE TAXI

1	Altimeters	SET
2	COM/NAV/GPS	SET
3	Flaps All Positions	CHECK
4	Flaps	UP
5	XPDR Code / Mode	CHECKED
6	Lights	AS REQU.
7	Parking Brake	RELEASE
TAXI	Steering Left / Right	CHECK
	Brakes	CHECK
	Flight Instruments	CHECK

BEFORE TAKEOFF

1	Parking Brake	SET
2	Taxi Light	OFF
3	Seat Belts/Harness	FASTEN
4	Engine Instruments	IN-GREEN
5	Fuel Selector	FULLER TANK
6	Cowl Flaps	OPEN
7	Mixture	FULL-RICH
8	Propeller	HIGH RPM
9	Circuit Breakers	CHECKED
A/P	Autopilot	ON
A/P	Flight Controls	OVERRIDE
A/P	A/P Disc.+Horn	PRESS&VFY
13	Doors & Windows	SECURE
	Throttle	1700 rpm
	Prop 1x Pull-Drop	300-400rpm
	Ignition R-B-L-B	Switch
	Drop max. 150rpm	Check
	Diff. L/R max. 50rpm	Check
	Ignition Switch Both	CONFIRM
	Circuit Breakers	CHECKED
	Throttle Idle 500-700rpm	SET
	Throttle 1000rpm	SET
23	Elevator Trim	0° - 3°
24	Flaps	UP
25	Flight Controls	CHECK
26	Propeller	HIGH RPM
27	Fuel Pump Off	CHECK
28	Pitot Heat	AS REQ.
29	XPDR Code/Mode	CHECK
30	Parking Brake	Release

LINE UP / TAKEOFF

1	Before T/O Check	COMPL
2	Approach Sector	CLEAR
3	Runway Heading	CONFIRM
4	Prop	FULL FWD
5	Throttle ☞	FULL FWD
6	Rotate V_X	**71-77 KIAS**
7	Positive ROC Brakes	APPLY
8	Gear	UP
9	Increase Speed	**96 KIAS**

CLIMB / CRUISE CLIMB

1	Climb Power 25” MP	2500 rpm
2	Gear / Flaps	UP
3	Cowl Flaps	OPEN
4	Mixture ☞	BY ALTITUDE
5	Cruise Climb	**107 KIAS**
6	400ft AGL Safe Alt	CHECK
7	Flaps	UP
8	Trim	AS REQ
9	Landing Light	OFF
10	Fuel Press.	CHECK
11	Mixture	SET EGT

CRUISE

1	Cruise Power Set	AS DESIRED
2	Mixture Lean ☞	SET
3	Cowl Flaps	CLOSE
4	Altimeters	SET

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DESCENT

1	Altimeters Compare	SET QNH
2	Cowl Flaps	CLOSED
3	Power	AS REQ.
4	Mixture Enrich	AS REQ.
5	Fuel Quantity Balance	CHECK
6	Descent Planning	COMPLETE

LANDING APPROACH

1	Fuel Selector	FULLER TANK
2	Landing Light	ON
3	Mixture Control	FULL RICH
4	Altimeters Set QNH	Compare
5	Gear Down	**<154 KIAS**
6	Gear Locked	3 GREENS
7	Flaps 15°	**<154 KIAS**
8	Trim	AS REQ

LANDING

1	Gear Down 3 Greens	CHECKED
2	Flaps	AS REQU.
3	Prop	FULL FWD
4	Airspeed on Final	**80 KIAS**
5	Airspeed (15°/Full)	75/70 KIAS
GO AROUND	Prop	FULL FWD
	Throttle	FULL FWD
	Airspeed	**70 KIAS**
	Positive ROC	CHECKED
	Flaps	SET 15°
	Landing Gear	UP
	Airspeed	**96 KIAS**
	Flaps	UP

AFTER LANDING

1	Flaps	UP
2	Trim Tab	SET 0°
3	Cowl Flaps	OPEN
4	Pitot Heat	OFF
5	Prop Anti Ice	OFF
6	Landing Light, Strobe	OFF
7	Taxi Light	ON
8	Transponder	SBY

SHUT DOWN

1	Parking Brake	SET
2	ELT	CHECK
3	Flight Plan	CLOSED
4	Avionic Master	OFF
5	Lights excl. Beacon	OFF
6	Mixture	IDLE CUTOFF
7	Generator Switch	OFF
8	Magnetos	OFF
9	Beacon	OFF
10	Battery Switch	OFF
11	Flight Logger	SLIDE CARD
12	Control Lock	INSTALL

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CRUISE POWER SETTINGS

75% MAX CONTINUOUS POWER (OR FULL THROTTLE)
2500 RPM - 3200 POUNDS

	STANDARD DAY (ISA)							
PA	OAT		ENG SPD	MAP	FUEL FLOW		TAS	CAS
FEET	ºF	ºC	RPM	IN. HG	PPH	GPH	KTS	KTS
SL	63	17	2500	24.6	91.4	15.2	163	163
1000	60	16	2500	24.3	91.4	15.2	164	162
2000	55	14	2500	24.1	91.4	15.2	166	161
3000	53	12	2500	23.8	91.4	15.2	167	160
4000	49	10	2500	23.5	91.4	15.2	169	159
5000	45	8	2500	23.2	91.4	15.2	170	158
6000	43	6	2500	23.0	91.4	15.2	172	157
7000	39	4	2500	22.6	89.7	15.0	172	155
8000	35	2	2500	21.7	86.5	14.4	170	151
9000	32	0	2500	20.6	83.7	14.0	169	148
10000	28	-2	2500	20.0	81.0	13.5	168	145
11000	24	-4	2500	19.2	78.3	13.1	167	142
12000	21	-6	2500	18.3	75.7	12.6	165	138
13000	17	-8	2500	17.6	73.0	12.2	164	135
14000	13	-10	2500	16.5	70.6	11.8	162	131
15000	10	-12	2500	16.1	68.2	11.4	160	127
16000	8	-14	2500	15.4	65.9	11.0	158	124

Full throttle manifold pressure settings are approximate

Shaded area represents operation with full throttle

CRUISE POWER SETTINGS

65% MAX CONTINUOUS POWER (OR FULL THROTTLE)
2300 RPM - 3200 POUNDS

	STANDARD DAY (ISA)							
PA	OAT		ENG SPD	MAP	FUEL FLOW		TAS	CAS
FEET	ºF	ºC	RPM	IN. HG	PPH	GPH	KTS	KTS
SL	63	17	2300	23.9	80.0	13.3	154	153
1000	60	16	2300	23.6	80.0	13.3	155	153
2000	55	14	2300	23.4	80.0	13.3	156	152
3000	53	12	2300	23.1	80.0	13.3	157	151
4000	49	10	2300	22.9	80.0	13.3	159	150
5000	45	8	2300	22.6	80.0	13.3	160	146
6000	43	6	2300	22.4	80.0	13.3	161	147
7000	39	4	2300	22.1	80.0	13.3	162	146
8000	35	2	2300	21.7	80.0	13.3	163	144
9000	32	0	2300	20.9	76.4	12.7	161	141
10000	28	-2	2300	20.0	73.6	12.3	160	136
11000	24	-4	2300	19.2	71.4	11.9	158	134
12000	21	-6	2300	18.4	69.0	11.5	157	131
13000	17	-8	2300	17.6	66.6	11.1	156	127
14000	13	-10	2300	16.8	64.4	10.7	152	123
15000	10	-12	2300	16.1	62.1	10.4	150	119
16000	8	-14	2300	15.4	60.0	10.0	147	115

Full throttle manifold pressure settings are approximate

Shaded area represents operation with full throttle

CRUISE POWER SETTINGS

55% MAX CONTINUOUS POWER (OR FULL THROTTLE)
2100 RPM - 3200 POUNDS

	STANDARD DAY (ISA)							
PA	OAT		ENG SPD	MAP	FUEL FLOW		TAS	CAS
FEET	°F	°C	RPM	IN. HG	PPH	GPH	KTS	KTS
SL	63	17	2100	23.6	68.8	11.5	143	143
1000	60	16	2100	23.3	68.8	11.5	144	142
2000	55	14	2100	23.1	68.8	11.5	145	141
3000	53	12	2100	22.9	68.8	11.5	146	140
4000	49	10	2100	22.6	68.8	11.5	147	138
5000	45	8	2100	22.4	68.8	11.5	148	137
6000	43	6	2100	22.1	68.8	11.5	148	136
7000	39	4	2100	21.9	68.8	11.5	149	135
8000	35	2	2100	21.6	68.8	11.5	150	133
9000	32	0	2100	21.0	67.3	11.2	149	131
10000	28	-2	2100	20.2	65.8	11.0	148	126
11000	24	-4	2100	19.3	64.0	10.7	147	124
12000	21	-6	2100	18.5	62.1	10.4	145	121
13000	17	-8	2100	17.7	60.2	10.0	142	117
14000	13	-10	2100	16.8	57.8	9.7	139	112
15000	-	-	-	-	-	-	-	-
16000	-	-	-	-	-	-	-	-

Full throttle manifold pressure settings are approximate

Shaded area represents operation with full throttle

Airspeeds for Normal Operations

TAKEOFF	
V_X Flaps UP	77 KIAS
V_Y Flaps UP	96 KIAS
Cruise - Climb Flaps UP	107 KIAS
LANDING	
Flaps UP	80 KIAS
Flaps 15°	75 KIAS
Flaps 30°	70 KIAS
Max. demo X-Wind	17 knots
V_{FE} Flaps 15°	154 KIAS
V_{FE} Flaps 30°	123 KIAS
Max. Gear Extend Spd. V_{LO}, V_{LE}	154 KIAS
CRUISE	
V_A Maneuvering	134 KIAS
V_{NO} Max turbul. Air	167 KIAS
V_{NE} Max Airspeed	196 KIAS

Airspeeds for Emergency Operations

Emergency Descent	154 KIAS
Best Glide Flaps UP	105 KIAS
Landing w/o Engine	83 KIAS
Eng. Failure before T/O	IDLE/BRAKE
Eng. Failure aft. T/O Nose Down	105 KIAS