



Aircraft Checklist

MFU - Pilotenclub - LOAV



3fly.at

OE-KBS

PIPER PA28-181

MTOM = 1157 kg / 2550 lb

A/C-Size: W: 10.7 m H: 2.3 m L: 7.2 m

FPL (EXAMPLE)

7	A/C ID	OE-KBS
8	Flight Rules	V,I,Y,Z
	Type of Flight	G
9	Type of A/C	P28A
	Wake Turb. Cat.	L
10	Equipment	BDFGLORY/S
13	Departure A/D	LOAV
	Departure Time	0830
15	Speed	N0110
	Flight Level	VFR
	Route	RADLY
16	Destination A/D	LJPZ
	Total EET	0200
	Alternate A/D	LOWG
18	Other Info	EET/RADLY0045
	PBN/B2C2D2O2S2	NAV/SBAS
19	Endurance	0500
	Persons on Bord	1-4
	Emerg. Equipm.	ELT
	A/C Colour	GRAY/RED
	Name PIC	NAME/TEL

OPERATOR

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FUEL

Fuel Super Plus98 ETBE


Fuel (alt.)* AVGAS 100LL

Max. Fuel 189 l / 50 gal

Unusable Fuel 7.6 l / 2 gal

*) If alternative Fuel used → Entry in A/C LOG

OIL

Shell Aero  15W-50

Minimum 4 Qts 3.8 l

Maximum 8 Qts 7.6 l

TIRE

Front Tire 18 psi / 1.24 bar

Main Tires 24 psi / 1.65 bar




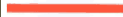


SPEED


V_{S0} (Stall- Flaps max) 49 KIAS

V_G (best glide/Flaps up) 76 KIAS

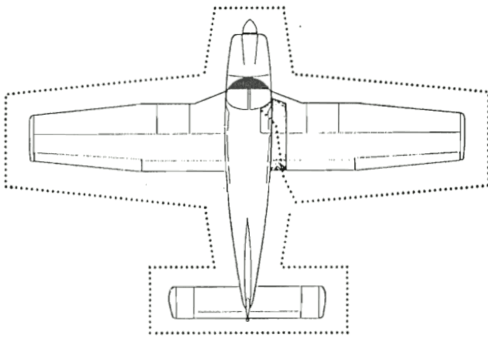
Max. Demo. X-Wind 17 knots

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 - (KBS 2022 V2.0)

PREFLIGHT**OUTSIDE**

1 Fuel Tank Sumps	2 x DRAIN
2 Eng. Fuel Strainer	DRAIN
3 Pitot Cover	REMOVE

CABIN

4 Req. Documents	ON BOARD
5 Avionics Master	CHECK / OFF
6 Ignition	OFF
Master BAT	ON
Fuel Quantity	CHECK
Nav Lights	CHECK IF REQ
Landing Light	CHECK
ACL	CHECK
Pitot Heat	CHECK
Panel Light	CHECK
Stall Warning	CHECK
Master BAT	OFF

OUTSIDE CONT.

16 Exterior / Damage	CHECK
17 Control Surfaces	CHECK
18 Hinges	CHECK
19 Wings (Ice, Snow)	CHECK
20 Fuel Tank Quantity	CHECK
21 Fuel Vents (Open)	CHECK
22 Main Gear Struts	CHECK
23 Tires	CHECK
24 Brake Blocks	CHECK
25 Pitot Head	CHECK
26 Windshield	CLEAN
27 Propeller / Spinner	CHECK
28 Fuel & Oil (Leaks)	CHECK
29 Oil-Level (4-6 Qts)	CHECK
30 Oil-Dipstick	SECURE
31 Cowling	SECURE
32 Inspection Covers	SECURE
33 Nose Wheel Tire	CHECK
34 Nose Gear Strut	CHECK
35 Air Inlets	CLEAR
36 Alternator Belt Tension	CHECK
37 Tow Bar	STOW
38 Baggage	SECURE
39 Baggage Door	CLOSE
40 Prim. Flight Contr.	PROPER OP

BEF. ENGINE START

1	Outside Check	COMPL
2	Tow Bar, Chocks	REMOVED
3	Cabin Door	CLOSE / LOCK
4	Seat Belts	FASTENED
5	Avionic Master	CHECK / OFF
6	Circuit Breakers	CHECK / IN
7	Carburetor Heat	CHECK / OFF
8	Fuel Selector	DESIR. TANK
9	Alternate Static	CLOSED
10	Pitot Static Lines	DRAIN

18	Throttle 1000 rpm	ADJUST
19	Oil Pressure	CHECK
20	Warm Up at	800-1200 rpm
21	Nav Lights	ON IF REQ

FLOODED ENGINE START


1	Throttle	FULL FWD
2	Master ALT/BAT	ON
3	Fuel Pump	OFF
4	ACL	ON
5	Mixture	IDLE CUT-OFF
6	Prop Area	CLEAR
7	Starter	ENGAGE
8	Mixture	FULL RICH
9	Throttle	RETARD
10	Oil Pressure	CHECK
11	Warm Up at	800-1200 rpm
12	Nav Lights	ON IF REQ

ENGINE START

1	Parkng Brake	SET
2	Master ALT/BAT	ON
3	Verify Pump A	AUDIBLE
4	Fuel Pressure	VERIFY
5	Verify Pump B	AUDIBLE
6	Fuel Pressure	VERIFY
7	Fuel Pumps	VERIFY OFF
8	ACL	ON
9	Mixture	FULL RICH
COLD	Prime	3-6 STROKES
	Throttle	OPEN 7 mm
HOT	Prime	1 STROKE
	Throttle	OPEN 13 mm
14	Primer	LOCKED
15	Fuel Pump A or B	ON
16	Prop Area	CLEAR
17	Starter	ENGAGE

ENGINE START - Ext. Power

1	Master ALT/BAT	OFF
2	All Electr. Equipm.	OFF
3	Piper Ext. Power	INSERT
4	Engine Start	PROCEED
5	Throttle	LOWEST RPM
6	Piper Ext. Power	DISCONNECT
7	Master ALT/BAT	ON
8	Oil Pressure	CHECK
9	ACL	ON
10	Ammeter	CHECK
11	Nav Lights	ON IF REQ

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BEFORE TAXI

1	Avionic Master	ON
2	Annunc. Panel	PRESS
3	Landing Light	AS REQ
4	GPS Selftest	CHECK
5	GPS after Selftest	ENTER
6	Flight Instruments	SET
7	Transponder	SET / SBY
8	G5 PFT Indication	OFF
9	Taxi Area	CLEAR
10	Parking Brake	RELEASE
TAXI	Throttle apply	SLOWLY
	Brakes	CHECK
	Steering	CHECK
	Turn & Bank Ind.	CHECK


BEFORE TAKEOFF

1	Parking Brake	SET
2	Fuel Selector	RIGHT TANK
RUN UP	Throttle	2000 rpm
	Oil Pressure	CHECK
	Oil Temp	CHECK
	Magnetos B-R-B-L-B	175 / 50 rpm
	Carburetor Heat	CHECK
	Fuel Pump	CHECK / OFF
	Fuel Pressure	CHECK
Throttle - IDLE	CHECK	
Throttle	1000 rpm	
12	Flight Instruments	CHECK / SET
13	Radios / Nav / GPS	SET
14	CDI Source	SELECT

15	Autopilot	ENGAGE
16	Flight Controls	OVERRIDE
17	A/P Trim Disconnect	PRESS
18	Flight Director	OFF
19	Trim Tab	SET T/O
20	Primer	LOCKED
21	Landing Light	AS REQ
22	Pitot Heat	AS REQ
23	Mixture	FULL RICH
24	Carburetor Heat	CHECK / OFF
25	Fuel Pump A or B	ON
26	Flaps (10°/25°/40°)	CHECK
27	Flaps	AS REQ
28	Door	LATCHED
29	Seatbel./Harness	FASTEN/ADJ.
30	Departure Briefing	COMPL
31	T/O Briefing	COMPL
32	Approach Sector	CLEAR
33	Trim Tab	SET T/O
34	Rudder Trim	NEUTRAL
35	Parking Brake	RELEASE

LINE UP / TAKEOFF

1	Runway Heading	CONFIRM
2	Transponder	ALT
3	Engine Gauges	CHECK
4	Landing Light	AS REQ
5	Flaps	AS REQ
6	Throttle	FULL FWD
7	Rotate	52-65 KIAS

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SHORT FIELD T/O

1 Flaps	25°
2 Rotate	41-49 KIAS
3 After brk Ground	45-54 KIAS
4 Accelerate to	64 KIAS
5 After pass. Obst	FLAPS 10°
6 Flaps retr. slowly	UP
7 Accelerate to	76 KIAS


SOFT FIELD T/O

1 Flaps	25°
2 Rotate	41-49 KIAS
3 After T/O acceler.	45-54 KIAS
4 Accelerate to	76 KIAS
5 Flaps retr slowly	UP

CLIMB

1 Flaps (500 ft AGL)	UP
2 Climb Speed	76 KIAS
3 Landing Light	OFF
4 Engine Gauges	CHECK
5 Trim	AS REQ
6 V _Y Flaps up	76 KIAS
7 V _X Flaps up	64 KIAS
8 En Route Climb	87 KIAS
9 Mixture	AS REQ
10 Oil Temperature	CHECK

CRUISE


1 Cruise Power 	AS REQ
2 Trim	ADJUST
3 Mixture	ADJUST
4 Fuel Pump	OFF
5 Fuel Sel. 30 min	SWITCH
6 Fuel - Right Tank	MIN ¼ FULL

NORMAL DESCENT

1 Throttle (if Req.)	2500 rpm
2 Airspeed	122 KIAS
3 Mixture	RICH
4 Fuel Pump	ON
5 Carburetor Heat	ON IF REQ
6 Fuel Selector	RIGHT TANK
7 Appr. Briefing	COMPL


POWER OFF DESCENT

1 Carburetor Heat	ON IF REQ
2 Throttle	CLOSE
3 Airspeed	AS REQ
4 Mixture	AS REQ
5 Fuel Pump	ON
6 Fuel Selector	RIGHT TANK
7 Power verify with Throttle every 30 sec	

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LANDING

1	Fuel Selector	RIGHT TANK
2	Seat Backs	ERECT
3	Belts & Harness	ADJUST
4	Landing Light	AS REQ
5	Mixture	RICH
6	A/P below 800 ft AGL	OFF
7	Carburetor Heat 	ON IF REQ
8	Approach Speed Max.	102 KIAS
9	Flaps	SET
10	Normal Approach	75 KIAS
11	Flaps Final	40°
12	Final APP Spd	66 KIAS
GO AROUND	Throttle	FULL FWD
	Carburetor Heat	OFF
	Flaps (retr. slowly)	10°
	Best Angle	65-68 KIAS
	Clear of Obstacles	FLAPS UP

SHUT DOWN

1	Parking Brake	SET IF REQ
2	Flight Plan	CLOSE
3	Avionic Master	OFF
4	NAV Light	OFF
5	Landing Light	OFF
6	Panel Light	OFF
7	Fuel Pump	OFF
8	Throttle	FULL AFT
9	Mixture	IDLE CUT/OFF
10	ACL	OFF
11	Magnetos	OFF
12	Master ALT/BAT	OFF
13	Flaps	CHECK UP
14	Flight Logger	SLIDE CARD

AFTER LANDING

1	Transponder	STANDBY
2	Pitot Heat	OFF
3	Carburetor Heat	OFF
4	Flaps	RETRACT

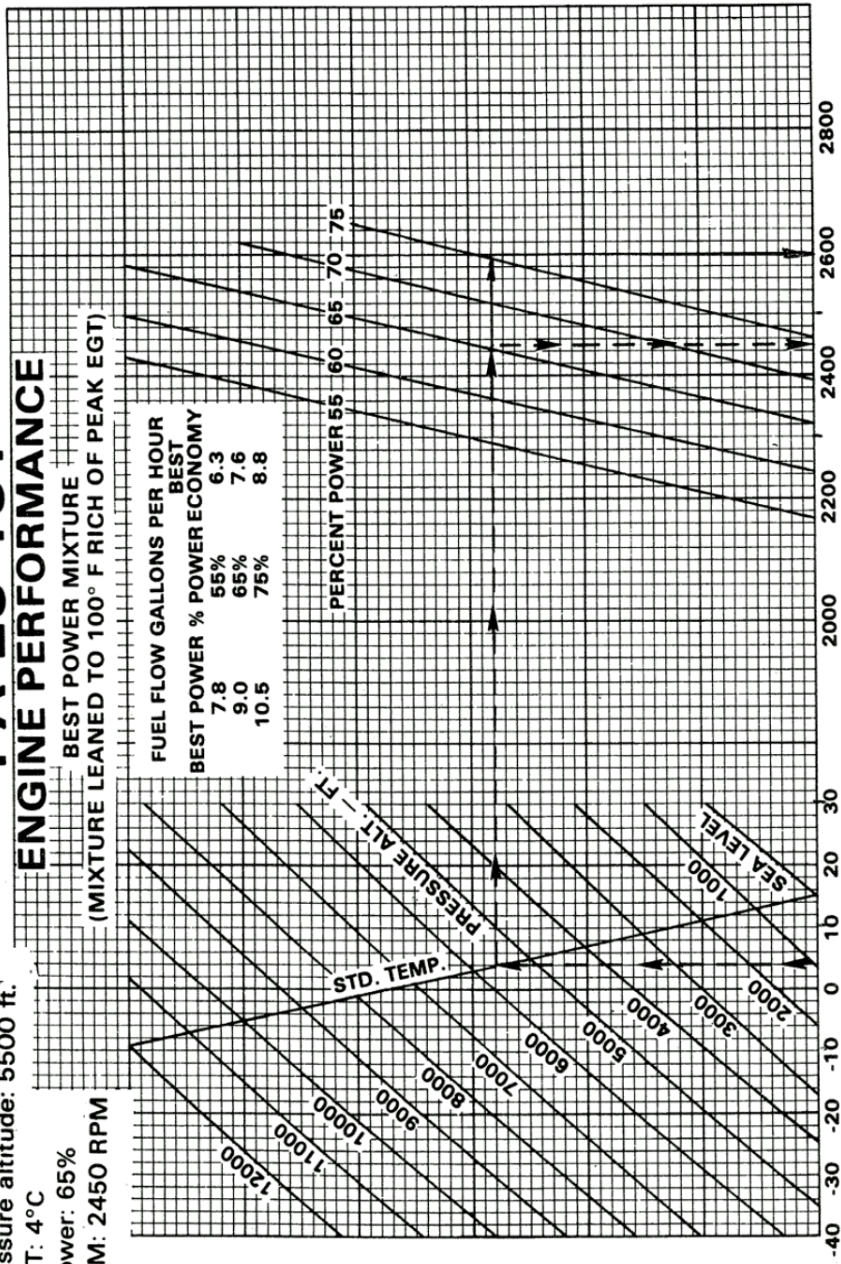
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ENGINE PERFORMANCE

BEST POWER MIXTURE
(MIXTURE LEANED TO 100° F RICH OF PEAK EGT)

Example:
Cruise pressure altitude: 5500 ft.
Cruise OAT: 4°C
Percent power: 65%
Engine RPM: 2450 RPM

FUEL FLOW GALLONS PER HOUR BEST	
55%	6.3
65%	7.6
75%	8.8
BEST POWER % POWER ECONOMY	
7.8	9.0
10.5	75%
	8.8



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Airspeeds for Normal Operations

TAKEOFF

V_R	52-65 KIAS
V_X Flaps UP	64 KIAS
V_Y Flaps UP	76 KIAS
Cruise - Climb Flaps UP	87 KIAS

LANDING

Normal Descent	122 KIAS
Normal Approach Speed	75 KIAS
Final Approach Speed 40° Flaps	66 KIAS
Maximum Flap Speed	102 KIAS
Maximum Demonstrated Cross-Wind	17 KTS

CRUISE

V_A Maneuvering	89-113 KIAS
V_{NO} Max Turbulent Air	125 KIAS
V_{NE} Max Airspeed	154 KIAS

Airspeeds for Emergency Operations

V_A Maneuvering Speed @ 2550 lbs	113 KIAS
V_A Maneuvering Speed @ 1634 lbs	89 KIAS
V_B Turbulent Air Penetration Speed	113 KIAS