

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

 Consult POH/AFM for "Warnings, Cautions and additional Information"
 This document does not replace POH/AFM - (KBS 2024 V2.1)



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
9	Type of Flight	G
	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






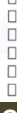


TIRE


Front Tire 18 psi / 1.24 bar
 Main Tires 24 psi / 1.65 bar

SPEED

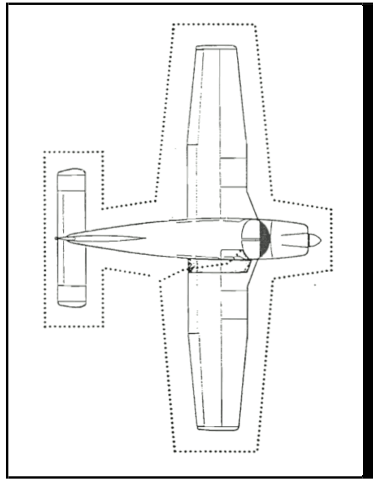
V_{S0} (Stall- Flaps max) 49 KIAS
 V_G (best glide/Flaps up) 76 KIAS
 Max. Demo. X-Wind 17 knots

COM FAIL

 Clear to Land
 Return to Landing
 Continue Circling
 A/D unsafe, don't Land
 No clearance
 Altitude clearance
 Wait for clearance
 Do not Land

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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.

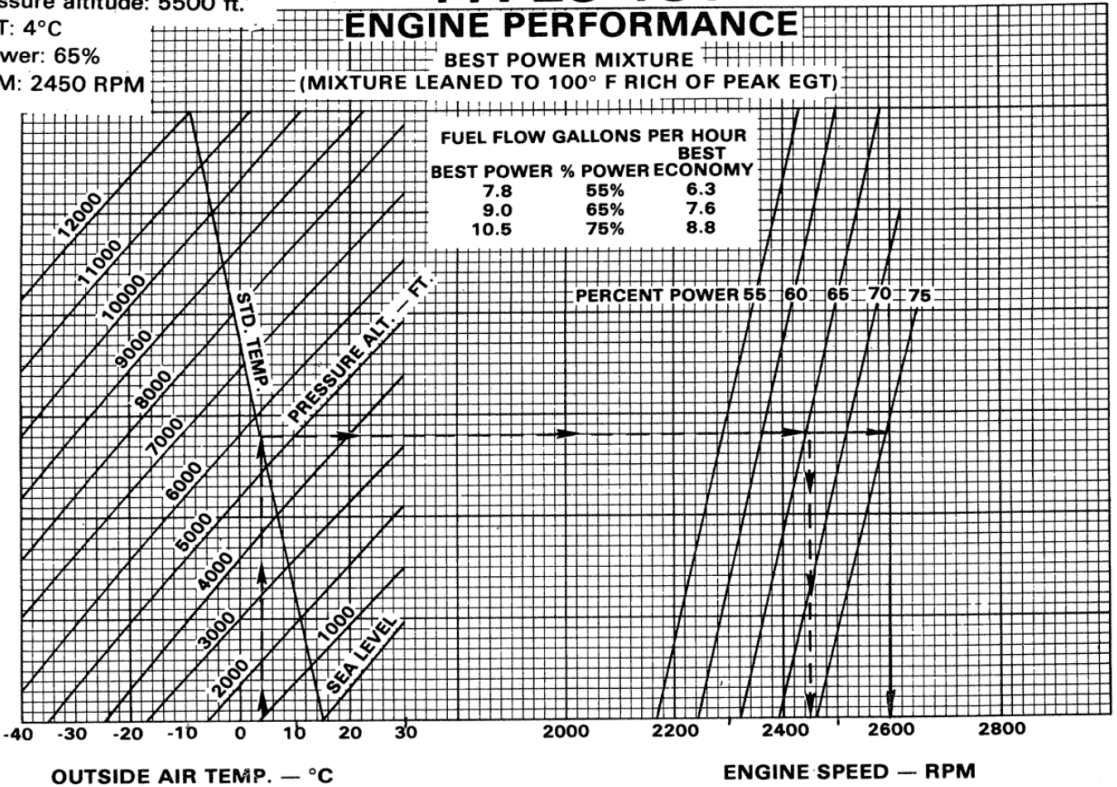
16 Exterior / Damage	CHECK
17 Control Surfaces	CHECK
18 Hinges	CHECK
19 Wings (Ice, Snow)	CHECK
20 Fuel Tank Quantity	CHECK
21 Fuel Vents (Open)	CHECK
22 Main Gear Struts	CHECK
23 Tires	CHECK
24 Brake Blocks	CHECK
25 Pitot Head	CHECK
26 Windshield	CLEAN
27 Propeller / Spinner	CHECK
28 Fuel & Oil (Leaks)	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

PA-28-181

ENGINE PERFORMANCE

Example:

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



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
Throttle	FULL FWD
Carburetor Heat	OFF
Flaps (retr. slowly)	10°
Best Angle	65-68 KIAS
Clear of Obstacles	FLAPS UP

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

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

ENGINE START	
1 Parking 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
10 Prime	3-6 STROKES
11 Throttle	OPEN 7 mm
12 Prime	1 STROKE
13 Throttle	OPEN 13 mm
14 Primer	LOCKED
15 Fuel Pump A or B	ON
16 Prop Area	CLEAR
17 Starter	ENGAGE

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 - 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

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
Throttle apply	SLOWLY
I Brakes	CHECK
A Steering	CHECK
T Turn & Bank Ind.	CHECK

BEFORE TAKEOFF	
1 Parking Brake	SET
2 Fuel Selector	RIGHT TANK
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
Flight Instruments	CHECK / SET
Radios / Nav / GPS	SET
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 Transponder	ALT
34 Trim Tab	SET T/O
35 Rudder Trim	NEUTRAL
36 Parking Brake	RELEASE

LINE UP / TAKEOFF	
1 Runway Heading	CONFIRM
2 Engine Gauges	CHECK
3 Landing Light	AS REQ
4 Flaps	AS REQ
5 Throttle	FULL FWD
6 Rotate	52-65 KIAS

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 ¹³⁵	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	