



# OE-KBS

PIPER P28A / GNS 430W

MTOW: 1.157 kg / 2.550 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 Turbul. Cat.	L
10	Equipment	DFGRSYW / 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/B2C2D2O2S1
19	Endurance	0500
	Persons on Bord	1 - 4
	Emerg. Equipm.	ELT
	A/C Colour	GREY / RED
	Name PIC	NAME / TEL

**OPERATOR**

**MFU Pilotenclub**

A-2540 Bad Vöslau, Flugplatz  
www.3fly.at / Tel: +43 2252 77340

**CONTACT**

Tower LOAV +43 1 900729201  
Maintenance LOAV +43 2252 790894  
A I S +43 51703 3211  
M E T +43 51703 3443

**FUEL**

Fuel Super Plus98 ETBE  
Fuel (alternative)\* AVGAS 100LL  
Maximum 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 Ltr  
Maximum 8 Qts 7,6 Ltr

**TIRE**

Front Tire 18 psi / 1,24bar  
Main Tires 24 psi / 1,65bar

**SPEED**

V<sub>SO</sub> (Stall- Flaps max) 49 KIAS  
V<sub>G</sub> (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

Do not Land

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

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	
<b>TAXI</b>	Throttle apply	SLOWLY
	Brakes	CHECK
	Steering	CHECK
	Turn & Bank Ind.	CHECK

BEFORE TAKEOFF		
1 Parking Brake	SET	
<b>RUN UP</b>	Throttle	2.000 rpm
	Oil Pressure	CHECK
	Oil Temp	CHECK
	Magnetos R-B-L-B	175 / 50 rpm
Carburetor Heat	CHECK	
Fuel Pump	CHECK / OFF	
Fuel Pressure	CHECK	
Throttle - IDLE	CHECK	
Throttle	1.000 rpm	
11 Flight Instruments	CHECK / SET	
12 Radios / Nav / GPS	SET	
13 CDI Source	SELECT	
14 Autopilot	ENGAGE	

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15 Flight Controls	OVERRIDE
16 A/P Trim Disconnect	PRESS
17 Flight Director	OFF
18 Trim Tab	SET T/O
19 Primer	LOCKED
20 Landing Light	AS REQ
21 Pitot Heat	AS REQ
22 Mixture	FULL RICH
23 Carburetor Heat	CHECK / OFF
24 Fuel Pump	ON
25 Fuel Selector	RIGHT TANK
26 Flaps (10°/25°/40°)	CHECK
27 Flaps	AS REQU.D.
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 REQU.D.
6 Throttle	FULL FWD
7 Rotate	52 - 65 KIAS

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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

17 Throttle 1.000 rpm	ADJUST
18 Oil Pressure	CHECK
19 Warm Up at	800 - 1200 rpm
20 Nav Lights	ON IF REQ

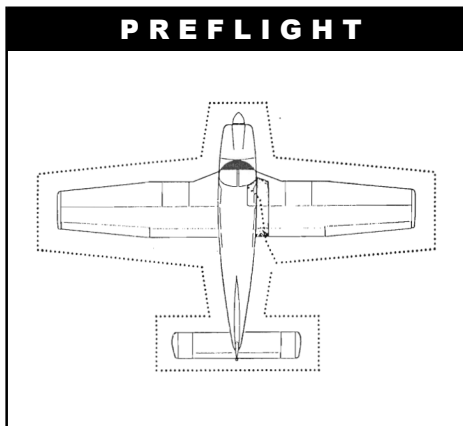
FLOODED ENGINE START	
1 Throttle	FULL FWD
2 Master ALT/BAT	ON
3 Fuel Pump	OFF
4 ACL	ON
5 Mixture	IDLE CUT-OFF
6 Prop Area	CLEAR
7 Starter	ENGAGE
8 Mixture	FULL RICH
9 Throttle	RETARD
10 Oil Pressure	CHECK
11 Warm Up at	800 - 1200 rpm
12 Nav Lights	ON IF REQ

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

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
<b>COLD</b>	- Prime 3 - 6 STROKES
	- Throttle OPEN 7 mm
<b>HOT</b>	- Throttle OPEN 13 mm
13 Primer	LOCKED
14 Fuel Pump	ON
15 Prop Area	CLEAR
16 Starter	ENGAGE

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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	
<b>BATTERY</b>	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

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

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

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

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

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

CLIMB	
1 Flaps (500 ft AGL)	UP
2 Climb Speed	<b>76 KIAS</b>
3 Landing Light	OFF
4 Engine Gauges	CHECK
5 Trim	AS REQ
6 Vy Flaps up	<b>76 KIAS</b>
7 Vx Flaps up	<b>64 KIAS</b>
8 En Route Climb	<b>87 KIAS</b>
9 Mixture	AS REQ
10 Oil Temperature	CHECK

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

## NORMAL AIRSPEEDS

### TAKEOFF

	V <sub>(R)</sub>	52 - 65 KIAS
	V <sub>(X)</sub> Flaps UP	64 KIAS
	V <sub>(Y)</sub> 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 <sub>(A)</sub> Maneuvering	89 - 113 KIAS
V <sub>(NO)</sub> Max Turbulent Air	125 KIAS
V <sub>(NE)</sub> Max Airspeed	154 KIAS

### AIRSPEEDS FOR EMERGENCY

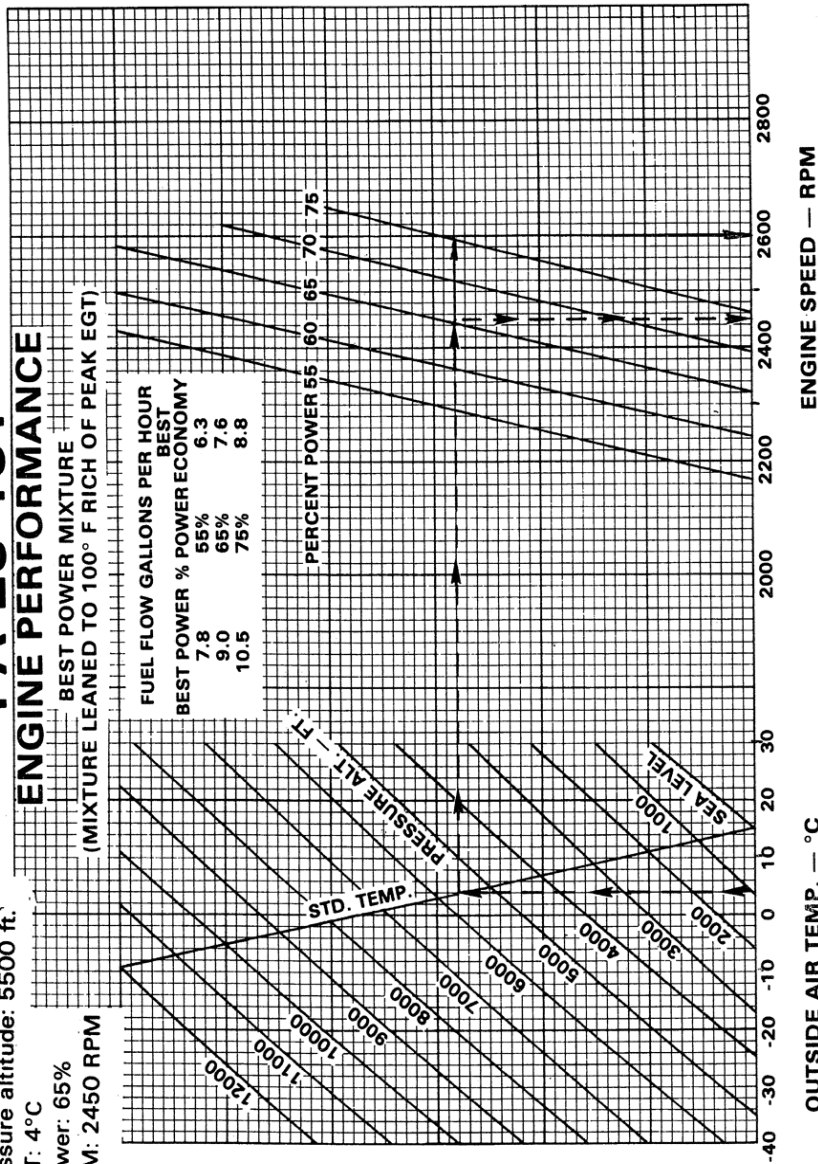
V <sub>(A)</sub> Maneuvering Speed @ 2550 lbs	_____	113 KIAS
V <sub>(A)</sub> Maneuvering Speed @ 1634 lbs	_____	89 KIAS
V <sub>(B)</sub> Turbulent Air Penetration Speed	_____	113 KIAS

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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 800ft AGL	OFF
7 Carburetor Heat	ON IF REQ
8 Approach Speed	<b>102 KIAS MAX</b>
9 Flaps	SET
10 Normal Approach	<b>75 KIAS</b>
11 Flaps Final	40°
12 Final APP Spd	<b>66 KIAS</b>

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

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

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

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