



# 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

### F P L ( E X A M P L E )

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

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### OPERATOR

## MFU Pilotenclub

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### CONTACT

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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

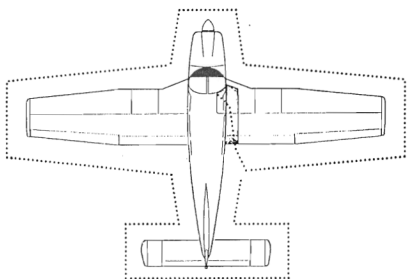
### SPEED

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	

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

**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

**BATTERY****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

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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

**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

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

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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
RUN UP	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
12	Radios / Nav / GPS	SET
13	CDI Source	SELECT
14	Autopilot	ENGAGE

15	Flight Controls	OVERRIDE
16	A/P Trim Disconnect	PRESS
17	Flight Director	OFF
18	<b>Trim Tab</b>	<b>SET T/O</b>
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 REQUD.
28	Door	LATCHED
29	Seatbel. / Harness	FASTEN / ADJ.
30	Departure Briefing	COMPL
31	T/O Briefing	COMPL
32	Approach Sector	CLEAR
33	<b>Trim Tab</b>	<b>SET T/O</b>
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 REQUD.
6	Throttle	FULL FWD
7	Rotate	<b>52 - 65 KIAS</b>

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**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

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**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 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

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

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**AFTER LANDING**

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



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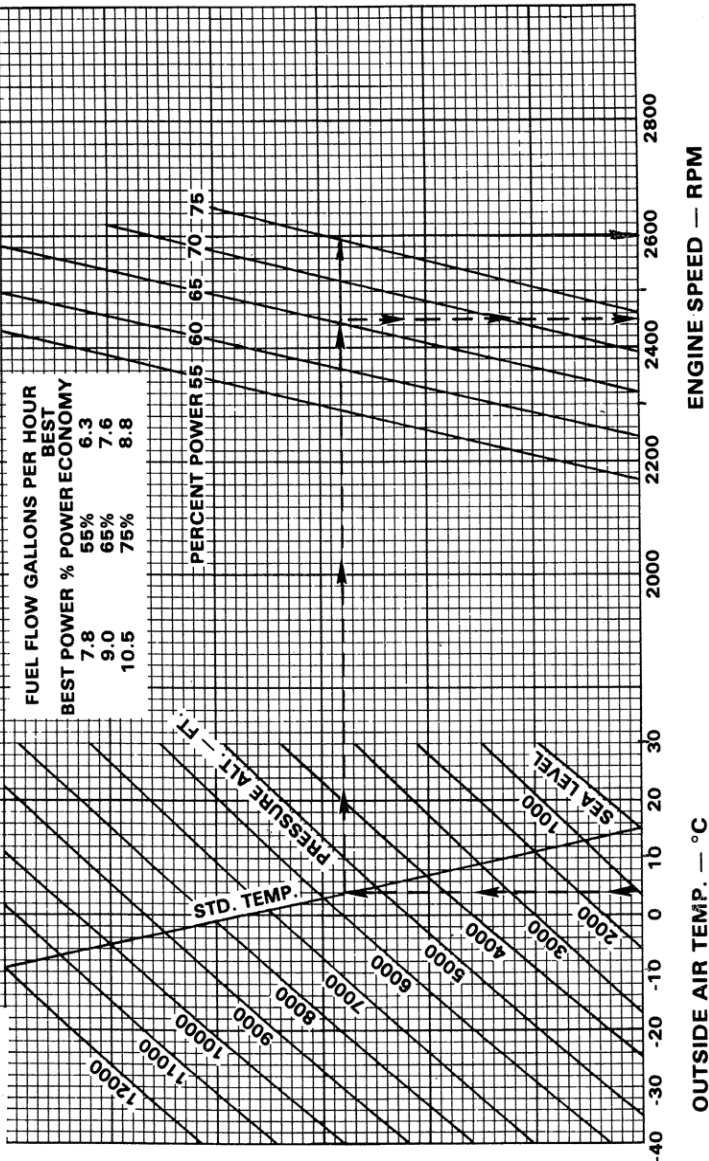
## ENGINE PERFORMANCE

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	
BEST POWER MIXTURE	6.3
55% POWER	7.6
65% POWER	9.0
75% POWER	10.5

PERCENT POWER 55 60 65 70 75



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## 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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