PS-POH-1-1-01

Piper Sport

Pilot's Operating Handbook



PiperSport aircraft is designed and manufactured by



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SECTION 2 LIMITATIONS

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Minimum instruments and equipment list for Day VFR flights:

- Airspeed indicator
- Altimeter
- Compass (is not required by ASTM F 2245)
- · Fuel quantity indicator
- Tachometer (RPM)
- Engine instruments as required by the engine manufacturer :
 - Oil temperature indicator
 - Oil pressure indicator
 - Cylinder head temperature indicator
- Safety harness for every used seat

WARNING IFR FLIGHTS AND INTENTIONAL FLIGHTS UNDER ICING CONDITIONS ARE PROHIBITED!

WARNING

EMERGENCY PARACHUTE APPROVED FOR UP TO MTOW 1,350 LBS AND MAX. VELOCITY 120 KNOTS!

WARNING

MINIMUM 1.58 US GAL (6 LITRES) OF FUEL QUANTITY ALLOWS APPROXIMATELY 15 MINUTES OF SAFE OPERATION!

CAUTION

Install air intake shields in front of water and oil cooler, if ambient air temperature is 32°F (0°C) or lower.

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If BRS rescue system is installed:



 located on the both sides of fuselage between canopy and rear window

- located in place rocket egress

DANGER Rocket Deployed Parachute Egress Area STAY CLEAR Emergency information at: www.BRSparachules.com or call (651)457-7491 – after hours & weekends call (763)226-6110

CAUTION The owner (operator) of this airplane is responsible for the readability of placards during the aircraft service life.

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SECTION 4 NORMAL PROCEDURES

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WARNING

Physically check the fuel level before each takeoff to make sure you have sufficient fuel for the planned flight.

WARNING

In case of long-term parking it is recommended to turn the engine several times (Ignition OFF!) by turning the propeller. Always handle by palm the blade area i.e. do not grasp only the blade edge. It will facilitate engine starting.

4.2 Engine starting

2. Canopy

4.2.1 Before engine starting

1. Control system	 free & correct movement
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- clean, closed and locked
- 3. Safety harness tighten
- 4. Brakes fully applied

4.2.2 Engine starting

NOTE: Start the engine according to procedure in Rotax Operator's manual.

1.	Throttle	- j	dle	
2.	Choke - cold engine - warm engine		ON (fully pulled OFF	and hold)
3.	Fuel selector		turn on (left or ri with fuel tanks fi	ight fuel tank in accordance illing)
4.	Master switch	- 1	switch ON	
5.	Fuel pump	- 1	switch ON	
6.	Propeller area	- 1	clear	
7.	Ignition switch	- 1	hold activated to	start the engine
8.	After engine starting	- 1	Instrument	- switch ON
		- 1	Fuel pump	- switch OFF
		- 4	Avionics	- switch ON
		- 1	other switches	- switch ON as necessary
9.	Choke	- 1	gradually releas	e during engine warming up
10	. Throttle	-	maintain max. 2	2,500 [rpm] for warming up

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SECTION 4 NORMAL PROCEDURES PS-POH-1-1-01

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4.3 Taxiing

Apply power and brakes as needed. Apply brakes to control movement on ground. Taxi carefully when wind velocity exceeds 20 [knot]. Hold the control stick in neutral position.

4.4 Normal Takeoff

4.4.1 Before takeoff

2. Trim

1.	Altimeter

4. Cockpit canopy

- set neutral position
- 3. Control system check free movement
 - closed and locked

set

- tighten

Recommendation: - manually check by pushing the canopy upwards.

- 5. Safety harness
- 6. Fuel selector turn ON (left or right fuel tank)
- 7. Ignition switch
- 8. Wing flaps
- switched ON (both magnetos)
 extend as necessary
- CALCHIG US IN

4.4.2 Takeoff

1.	Brakes	 apply to stop wheel rotation
2.	Takeoff power	- throttle fully forward
		(max. 5,800 [rpm] for max. 5 [min])
3.	Engine speed	- check rpm
4.	Engine gauges	- within limits
5.	Brakes	- release
6.	Elevator	 control stick pull
7.	Nose wheel unstick	- 32 [knot] (37 [mph])
8.	Airplane lift-off	- 42 [knot] (48 [mph])
9.	Climb	 after reaching airspeed

10. Wing flaps

 retract at safe altitude (max. airspeed for flaps using is 75 [knot], 86 [mph])

65 [knot] (75 [mph])

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7.7 Landing gear

AIRPLANE AND SYSTEMS

SECTION 7 DESCRIPTION OF

Aircraft is equipped with tricycle landing gear.

Main landing gear uses two fiberglass spring elements. Each main gear wheel is equipped with an independent, hydraulically operated, disc type brakes. Nose wheel is free castering. Steering is accomplished by differential application of individual main gear brakes.

7.8 Baggage compartment

The rear baggage compartment is located behind seats. It may accommodate up to 40 [lb] (18 [kg]). This space is divided to two sections:

- A baggage compartment lowered part of the baggage compartment, close to seats and
- B baggage compartment raised part of the baggage compartment, further from seats.

Baggage compartment is fitted with four tie-down straps for baggage fixation.

Load heavy items in compartment A. and lighter items in compartment B.

Baggage may also be loaded into the baggage compartment inside each wing up to 44 [*Ib*] (20 [*kg*]), in each wing locker.

Make sure that baggage does not exceed maximum allowable weight, and that the aircraft C.G. is within limits with loaded baggage.

CAUTION

All baggage must be properly secured.

7.9 Seats and safety harnesses

Side-by-side seating. Seat cushions are removable for easy cleaning and drying. Four point safety belts provided to each seat. Additional seat upholstery to raise the small pilot or move him forward is optional.

NOTE

Prior to each flight, ensure that the seat belts are firmly secured to the airframe and that the belts are not damaged. Adjust the buckle to a central position on the body.

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7.10 Canopy

DESCRIPTION OF AIRPLANE AND SYSTEMS

SECTION 7

Access to the cabin is from both sides. Make sure that the canopy is latched and mechanism is securely locked into position on both sides before operating the aircraft.

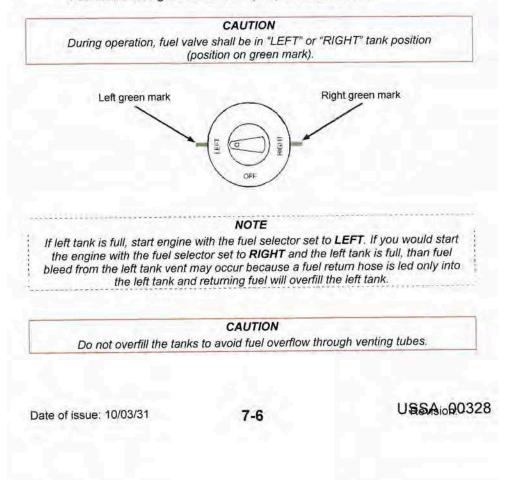
7.11 Fuel system

Each tank is equipped with a vent outlet, finger screen filter and float sensor. Drain valve located in the lowest point of the each tank and on the bottom edge of the bulkhead, on the gascollator.

Fuel selector valve is on the central console in the cockpit.

The electric fuel pump is located on bulkhead and it is used for fuel line filling before engine starting.

Fuel return hose goes from the fuel pump into the left tank.



SECTION 9 SUPPLEMENTS

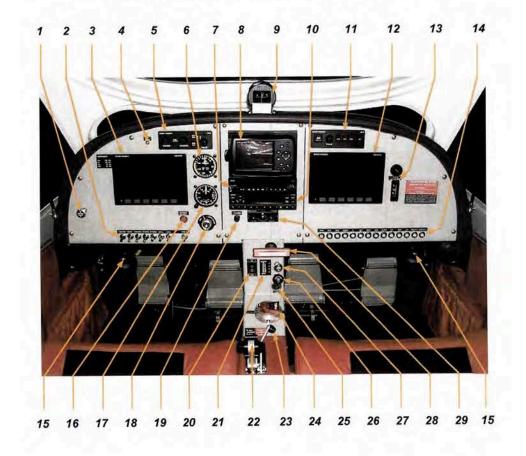
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7. DESCRIPTION OF AIRPLANE AND SYSTEMS

7.4 Instrument panel

Instrument panel layout of PiperSport aircraft S/N: P1001001



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1	Parking brake	16	Autopilot disconnection button
2	Switches / Circuit breakers*	17	Backup Altimeter
3	Dynon EFIS	18	Ignition switch
4	EMS warning light	19	Dynon Alerts volume control
5	Dynon HS34 HSI expansion module	20	Flaps control switch
6	Backup Airspeed indicator	21	Flaps position indicator
7	Transceiver	22	Throttle
8	Garmin GPS	23	Choke
9	Compass	24	Fuel selector valve
10	Transponder	25	Socket 12V
11	Dynon AP74 autopilot control unit	26	Carburetor preheating
12	Dynon EMS	27	Cabin heating
13	ELT control unit and buzzer	28	BRS release handle
14	Circuit breakers	29	PS Intercom
15	PTT / elevator trim / aileron trim buttons		

Description of instrumentation and controls in the cockpit

* Switches and circuit breakers detailed description is in this Supplement, page 10 of 14.

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SECTION 9 SUPPLEMENTS PS-POH-1-1-01

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Instruments and Avionics

- Dynon D100 EFIS
- Dynon D120 EMS
- Backup Airspeed indicator
- Backup Altimeter
- Magnetic compass
- Garmin SL30 transceiver
- PS Engineering PM3000 intercom
- Garmin GTX328 transponder
- King AK451 ELT
- AirGizmos, Garmin 495 GPS
- Dynon HS34 HSI expansion module
- Dynon AP74 autopilot control unit
- Electric autopilot servos
- Antennas

NOTE

For instrument and avionics operating instructions refer to the documentation supplied with the instruments and avionics.

Miscellaneous equipment

- G -205 trim control and PTT on the control sticks
- Trims and flaps electrically actuated
- Kuntzleman wing tip strobe/nav. lights
- Landing light in cowl
- Adjustable pedals
- Dual hydraulic brakes
- · Parking brake
- Wheel fairings tricycle
- Cabin heating
- Carburetor preheating
- Leather upholstery
- Paint
- BRS LSA softpack parachute

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