

Piper PA28R-201

BEFORE STARTING ENGINE

1. Preflight/ Passenger Briefing	COMPLETE
2. Seatbelts, Shoulder Harness	SECURE
3. Fuel Selector Valve	FULLEST TANK
4. Avionics Master	OFF
5. Beacon	ON
6. Autopilot	OFF
7. Circuit Breakers	ALL IN

ENGINE START

1. Brakes	SET
2. Propeller	HIGH RPM
3. Throttle	1/2"
4. Master Switch	ON
5. Fuel Pump	ON
6. Mixture	RICH
a. Positive Fuel Flow for 3-4 seconds	
7. Mixture	IDLE/ CUTOFF
8. Fuel Pump	OFF
9. Ignition Switch	START
a. When Engine Fires, Mixture	FULL/RICH
10. Oil Pressure	CHECK
11. Avionics Master	ON
12. Transponder	ON
13. ATIS/Clearance/Taxi	OBTAIN

TAXI CHECK

1. Parking Brake	RELEASE
2. Brakes	TEST
3. DG, Turn & Bank, Attitude Indicator	CHECK

Piper PA28R-201

RUNUP CHECK

1. Brakes	SET
2. Cabin Doors/Windows	CLOSED/LOCKED
3. Flight Controls	FREE/ CORRECT
4. Flight Instruments	CHECK/ SET
5. Stabilator Trim	TAKE OFF
6. Fuel – Selector Valve	FULLEST TANK
7. Mixture	RICH

ENGINE CHECK

1. Throttle	2000 RPM
2. Magnetos – Max 125 Drop, 50 Diff	CHECK
3. Propeller	CYCLE
4. Engine Instruments/Ammeter	CHECK
5. Suction Gauge	CHECK
6. Throttle	IDLE

BEFORE TAKEOFF CHECK

1. Radios	CHECK/SET
2. Autopilot	OFF
3. Mixture	RICH
4. Fuel Selector Valve	FULLEST TANK
5. Fuel Pump	ON
6. Strobe Lights	ON
7. Navigation Lights	ON
8. Flaps (Normal UP/ Short Field – 25)	SET
9. Trim	SET
10. Gear Override Switch (SHORT FIELD)	SET
11. Transponder	“ALT”

Piper PA28R-201

NORMAL TAKEOFF

1.	Flaps	SET
2.	Trim	SET
3.	Accelerate to	65 to 75 KIAS
4.	No Runway Remaining	GEAR UP

SHORT FIELD TAKEOFF

1	Flaps	25 (2 ND NOTCH)
2	Trim	SET
3	Accelerate to	50 to 60 KIAS
4	Climb	55-65 KIAS
5	Positive Rate	GEAR UP
6	Best Angle Climb	78 KIAS (V _x)
7	Flaps	RETRACT
8	Best Rate Climb	90 KIAS (V _y)

CLIMB

1	Flaps	UP
2	Gear	UP
	a. V _y (Gear up)	90 KIAS
	b. V _y (Gear down)	78 KIAS
	c. V _x (Gear up)	78 KIAS
	d. V _x (Gear down)	72 KIAS
3	Power	25 inches/ 2500 RPM
4	En Route Climb	104 KIAS
5	Fuel Pump	OFF

CRUISE CHECK

1	Power	SET
2	Landing Light	OFF
3	Mixture	ADJUST
4	Fuel Pump	OFF

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APPROACH/DESCENT CHECK

1	Instrument Approach Briefing	COMPLETE
2	Weather/ATIS	OBTAINED
3	Flight Instruments	CHECK/SET
4	Landing Light	ON
5	Mixture	RICH
6	Power	ADJUST
7	Fuel Selector	FULLEST TANK
8	Seat Belts	SECURE

PRE-LANDING CHECK

1.	Autopilot	OFF
2.	Fuel Selector	FULLEST TANK
3.	<u>G</u> as – Boost Pump and Fuel Selector	ON
4.	<u>U</u> nder Carriage	GEAR DOWN/LOCKED
5.	<u>M</u> ixture	RICH
6.	<u>P</u> ropeller	HIGH RPM

AFTER LANDING

1.	Flaps	UP
2.	Unnecessary Lights	OFF
3.	Transponder	STANDBY
4.	Taxi Clearance	OBTAIN

SHUTDOWN/SECURING

1.	Parking Break	SET
2.	Avionics Master	OFF
3.	Electrical Equipment	OFF
4.	Mixture	IDLE/CUTOFF
5.	Ignition Switch	OFF
6.	Master Switch	OFF

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ENGINE FAILURE IN FLIGHT

1. Best Glide	79kts
2. Gear Override Switch	ON
3. Ignition	ON/BOTH
4. Fuel Pump	ON
5. Fuel Selector	FULLEST TANK
6. Mixture	FULL RICH
7. Alternate Air	OPEN

Try and Restart

If Power Not Restored LAND WITHOUT ENGINE POWER

Notify – ATC 121.5

Transponder 7700

EMERGENCY LANDING WITHOUT ENGINE POWER

1. Best Glide	79kts
2. Seat Belts	SECURE
3. Ignition	OFF
4. Electrical Switches	OFF
5. Mixture	IDLE/CUTOFF
6. Fuel Selector	OFF
7. Doors	OPEN
8. Flaps	As req.
9. Landing Gear	DESIRED POSITION
10. Master Switch (Landing Assured)	OFF

NOTE: Landing gear cannot be retracted with master OFF

Exit to Rear of Plane

Piper PA28R-201

EMERGENCY DESCENT

1. Throttle	IDLE
2. Propeller	FULL
3. Gear	DOWN
4. Flaps	FULL
5. Notify ATC	121.50

ELECTRICAL FIRE

1. Master Switch	OFF
2. Vents, Cabin Air, Cabin Heat	OFF
3. Fire Extinguisher	ACTIVATE
4. Avionics Master	OFF
5. Electrical Switches	OFF

If Fire is Extinguished

6. Vents, Cabin Heat, Air	OPEN
7. Master Switch	ON
8. Circuit Breakers (don't reset tripped breakers)	
9. Radio Switches	OFF
10. Avionics Master	ON
11. Radio Switches	ONE AT A TIME

ENGINE FIRE IN FLIGHT

1. Fuel Selector	OFF/LEFT
2. Fuel Pump	OFF
3. Throttle	IDLE
4. Mixture	IDLE/CUTOFF
5. Master Switch	OFF
6. Cabin Heat	OFF

Execute EMERGENCY LANDING WITHOUT ENGINE POWER

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Engine	Lycoming IO-360 200 HP @ 2700 RPM
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Oil	Summer – W100	Winter – W80
	Full	8 QTS
	Min Local	6 QTS
	Min X-ctry	7 QTS

Max Gross Weight	2750 LBS
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Fuel	100LL (Blue), 100 (Green)	
	Total Fuel	77 GAL
	Usable Fuel	72 GAL

Electrical System	12 VOLT
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Speeds		
	Best Glide Speed	79 KIAS
	Stall (V _{so})	55 KIAS
	Stall (V _{s1})	60 KIAS
	Rotate (V _r)	55 KIAS
	Gear Down	
	Best Angle (V _x)	72 KIAS
	Best Rate (V _y)	78 KIAS
	Gear Up	
	Best Angle (V _x)	78 KIAS
	Best Rate (V _y)	90 KIAS
	Maneuvering Speed (V _a) 2750 LBS	118 KIAS
	Gear Extension (V _{ge})	129 KIAS
	Flaps Extended (V _{fe})	103 KIAS