

Tiedown Removal	
Tie Down Ropes/Straps	Removed
Horizontal stabilizer Plugs	Removed
Cowling Plugs	Removed
Control Locks (2 wings, 2 elevator)	Removed
Chocks	Removed

Preflight, Cabin	
Documents	AROW
Ignition	Off, Keys Removed
Avionics	Off
Master Switch	On
HOBBS/Tach	Check/Record
Nav Lights, Strobes, Landing Lights	On
Lights	Checked
Lights	Off
Master Switch	Off
Fuel	Left

Preflight Inspection	
Tire/Breaks	Visual Check
Pitot Tube	Clear
Pitot Tube Cover	Moves Freely
Strut	Attached & Secure
Wing Tip	Secure/Lights not loose or broken
Aileron	Secured
Flaps	Secured, move Freely
Antennas	Secure
Baggage Door	Closed, Locked
Horizontal Stabilizer	Secure
Rudder	Secure
Oil	At least 4 quarts
Birds in Engine	Checked/Removed
Nose Wheel	3 finger widths, Secure (Pull Down)
Alternator Belt	Firm
Prop	Checked
Fuel	Quantity, Color, Clean(4 Drains)
Tires	25psi Mains, 20psi Nose, Condition
Tail Braces	Tautness
Birds in Horizontal Holes	Checked/Removed
Fabric	Condition

Before Starting Engine

Preflight	Complete
Passenger Briefing	Complete
Seat Belts	Fastened
Brakes	Test
Avionics	Off
Circuit Breakers	Checked/In
Fuel Selector	Fullest Tank
Alternator	Off

Starting Engine

Prime	As Required (2 strokes, 40degrees)
Carb Heat	Cold
Throttle	1/2 Inch
Mixture	Rich
Master Switch	On
Magneto Switch	Left
Propeller Area	Clear
Ignition Switch	Start
Magnetos	Both
Timer	Start
Throttle	1000 RPM
Oil Pressure	Above 55psi in 30 seconds

Oil Temp	Check
Ammeter	Check/Charging
Avionics	On
Lights	As Required
Flaps	Up
Mixture	Lean for Taxi
ATIS	Current Weather Checked
Radio	Checked/Working

Taxi

Throttle	1200 RPM or less
Compass	Rotates Freely
Airspeed	Zero
Attitude Indicator	Less than 5 degrees in 5 minutes
Altimeter	Within 75'
Heading Indicator	Turns to known headings
VSI	Reads 0, Note difference
Taxi Speed	15MPH or less

Before Takeoff

Parking Brakes	Set
Seats/Seat Belts	Secured/Checked
Doors/Windows	Closed/Locked
Flight Controls	Free & Correct
Flight Instruments	Check & Set
Ammeter	Check for Charging
Trim	Set Takeoff
Primer	In/Locked
Fuel Selector	Fullest Tank, RH Tank only if more than 1/3
Throttle	1800 RPM
Mixture	Best RPM
Magnetors 125 RPM Drop, max 75 RPM diff, max	Check
Suction Gauge	In Green
Engine Instruments	Check
Carb Heat	Check RPM Drop (200 max)
Throttle	Idle then 1000
Transponder	1200, ALT
Clearance	If Required
Time	Noted

Landing	
Fuel	Fullest Tank, RH Tank only if more than 1/3
Mixture	Best RPM
Seat Belts	Fastened
Circuit breakers	Checked/In
Carb Heat	As Required

After Landing	
Flaps	Up
Carb Heat	Cold
Transponder	Standby
Mixture	Lean for Taxi

Shutdown	
Transponder	Off
Avionics	Off
Lights	Off
Throttle	1000 RPM
Alternator	Off
Mixture	Idle Cut-Off
Ignition Switch	Off
Master Switch	Off
Fuel Tank	Off

After Shutdown	
Tie Downs	Secured
Straps	Secured
Chocks	Inplace
Control Locks	Installed
Cowling Plugs	Installed
Horizontal Covers	Installed
Parking Break	Set
Fuel	Check Off
Timer	Off

Engine Failure	
Airspeed	Best Glide (80)
Place to Land	Find
Fuel	Switch Tanks
Mixture	Rich
Throttle	Full
Carb Heat	On
Circuit Breakers	Check
Prime	In/Locked
Master Switch	On
Magnetos	Left
Ignition	Start
Transponder	7700
Radio	Local ATC or 121.5

V Speeds (MPH)	
Vs ₀	47
Vs ₁	51
Vr	60
Vx	70
Vy	84
Va	112
Vfe	95
Vne	149
Best Glide	80
Cruise Climb	90
Approach w/ half flaps	70
Approach w/ full flaps	65

Transponder Codes	
7700	General Emergency
7600	Communications
7500	Hi Jack

Passenger Briefing	
Seat Belts	Usage, when required
Air Vents	Usage
Fire Extinguisher	Location, Usage
Door Usage	Opening and Closing, Pop open on emergency landing
Communications	No talking when you hold up hand
Traffic	Point out if seen
Questions?	Passenger Questions

Light Signals	
<i>In Flight</i>	
Steady Green	Cleared to Land
Flashing Green	Return to Land
Steady Red	Continue Circling
Flashing Red	Airport Unsafe
Alternating Red/Green	Exercise Extreme Caution
Red-Red-Green	Visual Warning System
<i>On Ground</i>	
Flashing White	Return to starting point
Steady Green	Cleared to takeoff
Flashing Green	Cleared to Taxi
Steady Red	Stop
Flashing Red	Taxi Clear of Runway
Alternating Red/Green	Exercise Extreme Caution

Piper PA-22-150
N6076D

Revision 3
2013 / 08 / 11