

# Starting - PA32-301T N3832D - Runup

<b>Before Starting Engine</b>	
Safety Belts	ON
Circuit Breakers	IN
Radio Master	OFF
Electrical Equip	OFF
Flaps	UP
Fuel	FULLEST
Brakes	SET
Propellor	FORWARD
Master Switch	<b>ON</b>
Strobes/Beacon	ON
Fuel Pump	ON

<b>Cold Start</b>	
Throttle	1/2 inch
Mixture	RICH 4 seconds (until fuel flow) then IDLE
Prop Area	CLEAR
Starter	ENGAGE
Mixture	RICH on start
Throttle	1000-1200 RPM

<b>Hot Start</b>	
Throttle	1/2 inch
Mixture	IDLE
Prop Area	CLEAR
Starter	ENGAGE
Mixture	RICH on start
Throttle	1000-1200 RPM

<b>Flooded Start</b>	
Fuel Pump	OFF
Throttle	FULL
Mixture	IDLE
Prop Area	CLEAR
Starter	ENGAGE
Mixture	RICH on start
Throttle	1000-1200 RPM

<b>Before Taxi</b>	
Oil Pressure	GREEN
Fuel Pump	<b>OFF</b>
Lean	As Required
Lights	As Required
Radio Master	ON & CHECK
Transponder	STANDBY
Brakes	CHECK

<b>Pre Takeoff - Runup</b>	
Flight Controls & Trim	CHECK
Flight Instruments	CHECK
Fuel	FULLEST
Throttle	2000 RPM
Magnetos	CHECK
	< 175 RPM drop each
	< 50 RPM between
Propellor	CYCLE x3
	• RPM drop
	• Manifold increase
	• Oil pressure drop
Engine Monitor	CHECK
Vacuum	4.8-5.1
Oil Temp	GREEN
Oil Pressure	GREEN
Fuel Pump	ON
Fuel Flow	CHECK
Fuel Pump	OFF
Throttle	1000 RPM
Ammeter	CHECK
Annunciator Lights	PRESS to test

O85 CTAF	122.8
O85 ELEVATION	723 feet
RDD ATIS	124.1
RDD TOWER	119.8
RDD GROUND	121.7

# TAKEOFF

<b>Before Takeoff</b>	
Safety Belts	ON
Doors&Window	LATCH
Auto-pilot	<b>OFF</b>
Flaps	SET
Trim	SET
Lights	ON
Fuel Pump	<b>ON</b>
Transponder	ALTITUDE
Propellor	HIGH RPM
Mixture	RICH

<b>Normal Takeoff</b>	
Throttle	30-36"MP
Rotate	74-80
	(Rotate 58-66 with 25° Flaps)
Climb V <sub>y</sub>	90
<b>At 1000' AGL</b>	
Throttle	< 36"MP
Propellor	<2575RPM
Climb enroute	100+

<b>Top of Climb</b>	
Throttle	SET
Propellor	SET
Landing Light	OFF
Fuel Pump	OFF
Mixture - Set to 100° Rich of Peak EGT	
Gauges	GREEN
Temps	CHECK
Lean	As Required

V <sub>ldmax</sub> - Best Glide	80	V <sub>s</sub> - 62	V <sub>y</sub> - 90
Demonstrated x-wind	17	Glide - 80	V <sub>x</sub> - 76

# LANDING

<b>Descent</b>	
Mixture - Keep above 1350° EGT	
Throttle - Keep above 15"MP	
Landing Light	ON

<b>Before Landing</b>	
Auto-pilot	<b>OFF</b>
Fuel Pump	<b>ON</b>
Gas	FULLEST
Undercarriage/Brakes	CHECK
Mixture	SET
Propellor	SET
Seat belts	ON
Flaps	< 112
Final Approach	79-95

<b>After Landing</b>	
Flaps	UP
Fuel Pump	OFF
Lights	As Req.
Transponder	STBY

<b>Engine Shutdown</b>	
Radio Master	OFF
Lights	OFF
Throttle	IDLE 1-2min
Mixture	CUTOFF
Magnetos	OFF
Master Switch	<b>OFF</b>
Hobbs Meter, Tach	RECORD
Tiedown/chocks	INSTALL