

## Before engine start

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<b>Preflight inspection</b>	Complete
<b>Pitot tube cover</b>	Removed
<b>Passenger briefing</b>	Complete
<b>Rudder pedals</b>	Adjust
<b>Seat &amp; shoulder belts</b>	Adjust and secure
<b>Cabin doors</b>	As desired
<b>Parking brake</b>	On
<b>Circuit breakers</b>	Check in
<b>Electrical switches</b>	Off
<b>AVN master switch</b>	Off
<i>Avionics master switch must be off during engine start to prevent possible damage to avionics.</i>	
<b>Fuel shutoff valve</b>	Check full in

## Starting engine

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<b>Mixture</b>	Rich
<b>Carb heat</b>	Off
<b>AVN master switch</b>	Off
<b>Master switch (alt &amp; bat)</b>	On
<b>Engine Indicating System</b>	No red Xs
<b>Volts</b>	Check ENG page
<b>Amps</b>	Verify discharge
<b>Strobe lights</b>	On
<b>Prime</b>	Pump throttle
Cold: 3-6 pumps, warm: 1 pump	
<b>Throttle</b>	Set
Cold: 1/4" open, warm: closed	

<b>Prop area</b>	Clear
<b>Starter</b>	Start
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<b>Throttle</b>	Idle
<b>Oil pressure</b>	Yellow band in 10 seconds
<b>AVN master switch</b>	On
<b>Nav lights</b>	On
<b>Parking brake</b>	Off
<b>Brakes</b>	Check
	ARB ATIS 134.55 ARB ground 121.6
<b>Taxi</b>	ARB tower 120.3 YIP tower 127.45

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<b>Mixture</b>	Lean for taxi
<b>Amps</b>	Verify charge
<b>Flight instruments</b>	Monitor while taxiing

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## Parking

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<b>Parking brake</b>	On
<b>Throttle</b>	Idle
<b>Electrical switches</b>	Off (except strobe)
<b>AVN master switch</b>	Off
<b>Mixture</b>	Idle cutoff
<b>Magnetos</b>	Off
<b>Strobe lights</b>	Off
<b>Engine &amp; flight hours</b>	Record
<b>Master switch</b>	Off
<b>Flaps</b>	Extend in windy conditions
<b>Pitot tube cover</b>	Attach
<b>Control locks &amp; tie-downs</b>	As needed

## Before takeoff

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<b>Parking brake</b>	On
<b>Rudder pedals &amp; seat belts</b>	Adjusted and secure
<b>Flight controls</b>	Check
<b>Flight instruments &amp; EIS</b>	No red X's
<b>Altimeter</b>	Set
<b>Fuel quantity</b>	Check
Warning: takeoff is prohibited with less than 1/4 tank of fuel.	
<b>Mixture</b>	Rich
<b>Trim</b>	Set slightly nose-down
<b>Oil temp &amp; pressure</b>	75° & green arc
<b>Throttle</b>	1700 RPM
<b>Carb heat</b>	Check
RPM drop, carb temp increase	
<b>Mags</b>	Check
< 150 drop per mag, < 50 differential	
<b>Oil temp &amp; pressure</b>	Green
<b>Amps &amp; volts</b>	Check
<b>Annunciators</b>	Verify none
<b>Throttle</b>	Check idle / friction lock
<b>Com frequencies</b>	Set
<b>GPS flight plan</b>	As desired
<b>Altitude &amp; heading bugs</b>	As desired
<b>Transponder</b>	Set
<b>Flaps</b>	10°
<b>Cabin doors</b>	Latched, cross-checked
<b>All lights</b>	On
<b>Parking brake</b>	Off

## Takeoff / climb

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<b>Directional control</b>	Maintain
Differential braking until rudder is effective	
<b>Flaps</b>	Retract at safe altitude
<b>EIS</b>	Monitor

## Cruise

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<b>Throttle</b>	2400 - 2750 RPM
<b>Mixture</b>	Lean if below 75% BHP
<b>All lights</b>	Remain on

## Descent

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<b>Throttle</b>	As desired (2750 RPM max)
<b>Mixture</b>	Adjust as necessary
<b>Altimeter</b>	Set
<b>Carb heat</b>	Required when in yellow band

## Before landing

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<b>Rudder pedals &amp; seat belts</b>	Adjusted and secure
<b>Mixture</b>	Rich
<b>Carb heat</b>	On

## After landing

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<b>Carb heat</b>	Off
<b>Flaps</b>	Retracted
<b>Transponder</b>	Standby