

PRE-FLIGHT AND LANDING CHECKS

COCKPIT CHECKS

1. Documents - On Board (ARROW)
2. Fire Extinguisher - Secure
3. First Aid Kit - Secure
4. Baggage - Secure
5. Control Wheel Lock - Removed
6. Ignition - Off
7. Avionics - Off
8. Master Switch - On
 - (a) Alternator Warning Light - Check
 - (b) Flaps - Lower
 - (c) Lights - Check Internal and External
9. Master Switch - Off
10. **ELB - Check Test Mode**
11. **External Checks - Complete**

PRE-START CHECKS

1. Cabin Doors - Closed and Latched
2. Seats - Adjusted and Locked
3. Harness - Secure
4. Passenger Brief - Complete
5. Throttle - Free Movement
6. Carb. Heat - Free Movement - Set Cold
7. Mixture - Free Movement - Set Rich
8. Controls - Full and Free Movement
9. Trim - Full and Free Movement
10. Flaps - Up
11. Check Avionics - Off
12. Circuit Breakers - Check
13. Fuel Selector - Both
14. Cabin Vents - Closed
15. Cabin Heat - Closed

ENGINE START CHECKS

1. **Radio Call - Start-up Clearance**
2. Prime - As Required (Cold Start)
3. Primer - Checked Locked
4. Throttle - Set
5. Mixture - Rich
6. Carb Heat - Cold
7. Master Switch - On
8. Anti-Collision Light - On
9. Lookout - Check Clear
10. Starter - Engaged
11. Oil Pressure - Check Rising
12. Ammeter - Check Charging

(FLOODED ENGINE)

1. Master Switch - On
2. Throttle - Full Open
3. Mixture - Idle
4. Lookout - Check Clear
5. Starter - Engaged
6. Mixture - Advance
7. Throttle - Retard

ENGINE AND SYSTEM CHECKS

1. Throttle - Set 1000 RPM
2. Engine Instruments - Check T's and P's
3. Radio - On and Set
4. Transponder - Set 7000 and Standby
5. Lights - Nav. and Taxi On
6. Aircraft - Into Wind
7. Lookout - Check Behind
8. Throttle - Set 17 - 1800 RPM
9. Vacuum Suction - Check Min. 3.0
10. Magnetos - Check RPM Drop Left and Right (Max. 150 RPM, Diff. 50 RPM)
11. Carb. Heat - Check RPM Drop then Rise
12. Throttle Idle - Min. 750 RPM
13. Throttle - Set 1000 RPM
14. Altimeter - Set Elevation (QNH)
15. Direction Indicator - Set Compass
16. Flight Instruments - Check Set
17. Engine Instruments - Check T's and P's
18. Transponder - Switch to ALT

TAKE-OFF CHECKS

1. Primer - Check Locked
2. Magnetos - Check Both
3. Fuel - Check Both
4. Mixture - Check Full Rich
5. Carb. Heat - Cold
6. Engine Instruments - Check T's and P's
7. Flaps - As Required
8. Trim - Set to Take Off
9. Controls - Full and Free Movement
10. Hatches and Harnesses - Secure
11. **Radio Call - Taxi Clearance**
12. Note Time
13. Brakes - Check Both
14. **Take Off - Check RPM, ASI, T's and P's**

<p style="text-align: center;"><u>DOWNWIND CHECKS</u></p> <ol style="list-style-type: none"> 1. Brakes - Check Free and Pressure 2. Undercarriage - Check Secure 3. Mixture - Fully Rich 4. Pitch - Fully Fine 5. Fuel - On and Sufficient 6. Carb. Heat - On 7. Engine Instruments - Check T's and P's 8. Hatches and Harnesses - Secure 9. Carb. Heat - Off <p style="text-align: center;"><u>BASE and FINAL LEG CHECKS</u></p> <ol style="list-style-type: none"> 1. Landing Lights - On 2. Carb. Heat - On 3. Flaps - As Required (Check Speed) <p style="text-align: center;"><u>AFTER LANDING CHECKS</u></p> <ol style="list-style-type: none"> 1. Flaps - Retracted 2. Carb. Heat - Off 3. Landing Lights - Off 4. Taxi Lights - On 	<p style="text-align: center;"><u>SHUT DOWN CHECKS</u></p> <ol style="list-style-type: none"> 1. Throttle - 1000 RPM (cooling) 2. Magnetos - Check 3. Avionics - All Off 4. Electrics - All Off 5. Mixture - Idle Cut Off 6. Ignition - Off, Key Out 7. Master Switch - Off 8. Cockpit <ol style="list-style-type: none"> (a) Note Time and Tacho (b) Cabin Vents - Open (c) Control Wheel Lock - In Place (d) Headsets - Stowed (e) Seatbelts - Tidy (f) Doors - Locked (g) Aircraft - Secured
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CROSSWIND CALCULATOR

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°
10	0	2	3	5	6	8	9	9	10	10
20	0	3	7	10	13	15	17	19	20	20
30	0	5	10	15	19	23	26	28	30	30
40	0	7	14	20	26	31	35	38	39	40
50	0	9	17	25	32	38	43	47	49	50