

**PREFLIGHT CHECK inside**

- |                                   |   |
|-----------------------------------|---|
| 1. Fuel Strainer .....            | DRAIN (Fuel Selector OFF then L then R) |
| 2. Gear Handle .....              | Down                                    |
| 3. Battery Master switch .....    | ON                                      |
| 4. Fuel .....                     | Endurance (X hours X minutes)           |
| 5. Flaps .....                    | DOWN                                    |
| 6. Battery Master Switch .....    | OFF                                     |
| 7. Mixture .....                  | Idle cut-off                            |
| 8. Magneto Switches .....         | Off                                     |
| 9. Parking brake .....            | SET                                     |
| 10. Pitot and Static Drains ..... | PUSH to drain                           |
| 11. Alternate Static .....        | Off                                     |

**PREFLIGHT CHECK outside**

- |   |  |
|---|--|
| 12. General condition .....               | Checked (+ Pitot cover - chocks - tow bar)     |
| 13. Fuel .....                            | Visual check / Caps closed / Tank sumps drains |
| 14. Oil .....                             | Checked (Max 12 Qts - Min 7 Qts) (1Qts=0,95L)  |
| 15. Baggage (front/rear) + REAR doors ... | CLOSED   |

**PREFLIGHT CHECK COMPLETED**

**CHECK BEFORE ENGINE START**

- |   |                               |
|---|-------------------------------|
| 1. Parking brake .....                    | Set                           |
| 2. Radio Master Switch .....              | Off                           |
| 3. All Electrical switches .....          | Off                           |
| 4. Circuit breakers .....                 | In                            |
| 5. Battery Master / Alternator Switches . | ON                            |
| 6. Flaps.....                             | UP                            |
| 7. Gear Handle .....                      | Down / 3 Greens checked       |
| 8. ELT .....                              | Armed                         |
| 9. Propeller .....                        | High RPM                      |
| 10. Alternate Air .....                   | Closed                        |
| 11. Fuel Quantity .....                   | Endurance (X Hours X minutes) |
| 12. Fuel Selector .....                   | ON (Fullest tank)             |
| 13. Mixture .....                         | Idle Cut-Off                  |

**CHECK BEFORE ENGINE START COMPLETED**

NOTES: 2 Tanks per wing FULL (51/51) 102USG usable (External Indic < 35USG)  
 Fuel consumption at 65% = 17USG/h (65L/h) / Xwind demonstrated. 17kts  
 VA 134 KIAS at 3600lbs (121 KIAS / 3000lbs - 105 KIAS / 2230lbs)  
 Max T/O Mass 3600lbs (1633kg) / Max Baggage Mass 200lbs (90,7kg)

**ENGINE START (Cold engine) (Hot engine)**

- |                             |  |
|-----------------------------|--|
| 1. Propeller Area .....     | Left wing to Right wing checked / Feet on brakes |
| 2. Fin Strobe .....         | ON   |
| 3. Throttle .....           | OPEN (1-2cm)                                     |
| 4. Magneto Switches .....   | ON   |
| 5. Electric Fuel Pump ..... | ON   |
| 6. Mixture .....            | PRIME 4" then IDLE CUT-OFF / <i>Idle Cut-Off</i> |
| 7. Starter .....            | ENGAGE until engine starts (Max 30")             |
| 8. Mixture .....            | FULL RICH when engine starts / <i>ADVANCE</i>    |
| 9. Throttle .....           | ADJUST 1000 - 1200 RPM                           |
| 10. Oil Pressure .....      | Green Range (within 30 seconds)                  |

**ENGINE START COMPLETED**

**CHECK AFTER ENGINE START**

- |                             |                           |                |
|-----------------------------|---------------------------|----------------|
| 1. Electric Fuel pump ..... | OFF                       |                |
| 2. Radio Master .....       | ON                        |                |
| 3. FD/AP Master .....       | ON                        |                |
| 4. DDMP                     | ELEC .....                | Checked        |
|                             | FUEL .....                | INSERTED / Set |
|                             | INST .....                | SELECTED       |
| 5. Radios / Nav Aids .....  | SELECTED / Volume checked |                |
| 6. Transponder.....         | ON - 7000 - GND           |                |
| 7. ATIS .....               | Noted                     |                |

**CHECK AFTER ENGINE START COMPLETED**

**CHECK BEFORE TAXI (CHETIFS if by heart)**

- |                                  |   |                   |
|----------------------------------|---|-------------------|
| 1. Flight Controls .....         | FREE (Autopilot OFF)                      |                   |
| 2. Propeller (Hélice) .....      | High RPM                                  |                   |
| 3. Fuel (Essence) Quantity ..... | Endurance (X Hours X minutes)             |                   |
|                                  | Selector .....                            | On (Fullest tank) |
|                                  | Mixture .....                             | Full rich         |
|                                  | Alternate Air .....                       | Closed            |
| 4. Autopilot and Trims .....     | Checked then OFF / Trims set T/O position |                   |
| 5. Flight Instruments .....      | Checked / Alarm lights tested             |                   |
| 6. Flaps .....                   | Checked Symmetrical (3 positions) / UP    |                   |
| 7. Security .....                | Seats Locked - Belts Fastened             |                   |
|                                  | Doors Window Closed and Secured           |                   |

**CHECK BEFORE TAXI COMPLETED**

**TAXI CHECK**

- 1. Brakes ..... Checked
- 2. Compass / Gyro ..... Right turn Hdg incr. - Left turn Hdg decr.
- 3. Turn coordinator ..... Tilt in turn direction, ball opposite
- 4. Attitude Indicator (Horizon) ..... Stable

**TAXI CHECK COMPLETED**

**RUN UP**

*(Note: not longer than 10" on one Magneto)*

- 1. Parking Brake ..... Set
- 2. Oil Pressure and Temperature ..... Green range
- 3. Throttle ..... 2000 RPM
- 4. Magnetos (Left - Both - Right - Both) . Checked (Max drop 175 RPM / Max Δ 50 RPM)
- 5. Alternate Air ..... ON then OFF
- 6. Propeller (Max Drop 500RPM)..... DECREASE then INCREASE (Low Oil T° = 3x)
- 7. Suction ..... Green range
- 8. Throttle ..... IDLE Checked then 1000 RPM

**RUN UP COMPLETED**

**CHECK BEFORE DEPARTURE**

- 1. Take OFF Briefing ..... Completed (VBest glide clean 83kts)
- 2. Electric Fuel pump ..... ON
- 3. Nav + Strobe + Landing Lights ..... ON
- 4. Flaps..... 2nd Notch SET (25°)

**CHECK BEFORE DEPARTURE COMPLETED**

**LINE UP CHECK (Before line-up)**

- 1. Approach free ..... Checked
- 2. Runway ..... XX Identified  
*(On Centerline)*
- 3. Runway Heading (Compass/Gyro) ..... Checked (Heading Bug Set)
- 4. Wind ..... Checked within limits

**READY FOR DEPARTURE**

**CLIMB CHECK**

- 1. Climb Power ..... Set
- 2. Gear ..... Up
- 3. Flaps..... Up
- 4. Electric Fuel pump ..... OFF Fuel Flow CHECKED
- 5. LIGHTS ..... Set as Required

**CLIMB CHECK COMPLETED**

**CRUISE CHECK**

- 1. Power ..... Set (REFER to table)
- 2. Mixture ..... Set (EGT: 50°F Reach of peak)
- 3. FUEL Management ..... Check Balance (Fuel pump ON when switching)
- 4. Engine Instruments ..... Green Range
- 5. Altimeter ..... Set (QNH or STD 1013,2 hPa for FL)
- 6. Transponder ..... ALT - CODE Checked

**CRUISE CHECK COMPLETED**

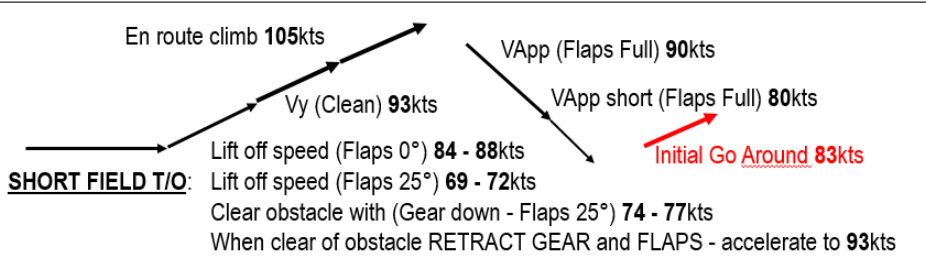
**POWER SETTING TABLE**

SARATOGA II HP

Press. Alt. Feet	Std. Alt. Temp. °C	LONG RANGE RPM				ECONOMY RPM				NORMAL RPM				HIGH SPEED 2700
		2100	2200	2300	2400	2100	2200	2300	2400	2200	2300	2400	2500	
MANIFOLD PRESSURE - INCHES MERCURY														
SL	15	23.2	22.7	22.2	21.7	25.6	25.0	24.4	23.8	28.0	27.2	26.5	25.9	27.0
1000	13	22.9	22.3	21.9	21.4	25.2	24.6	24.0	23.5	27.6	26.9	26.2	25.6	26.8
2000	11	22.5	22.0	21.5	21.1	24.9	24.3	23.7	23.2	27.3	26.6	25.9	25.3	26.5
3000	9	22.2	21.7	21.2	20.8	24.6	23.9	23.4	22.9	26.8	26.2	25.6	24.9	26.2
4000	7	21.9	21.4	20.9	20.5	24.3	23.7	23.1	22.6	—	25.8	25.3	24.7	25.8
5000	5	21.6	21.1	20.6	20.2	24.0	23.4	22.8	22.3	—	—	25.0	24.4	—
6000	3	21.3	20.8	20.3	19.9	23.7	23.1	22.5	22.0	—	—	—	24.1	—
7000	1	21.0	20.5	20.0	19.6	23.3	22.8	22.3	21.7	—	—	—	—	—
8000	-1	20.7	20.2	19.8	19.3	—	22.4	22.0	21.4	APPROX. FUEL FLOW / MIXTURE Long range 14.5 GPH / 50° Rich of Peak EGT Economy 16.5 GPH / 50° Rich of Peak EGT Normal 18.5 GPH / 50° Rich of Peak EGT High Speed 29.0 GPH / Full Rich				
9000	-3	20.5	20.0	19.5	19.1	—	—	—	21.2					
10,000	-5	20.2	19.7	19.2	18.8	—	—	—	—					
11,000	-7	19.9	19.4	19.0	18.5	—	—	—	—					
12,000	-9	—	19.0	18.7	18.3	—	—	—	—					
13,000	-11	—	—	—	18.0									
14,000	-13	—	—	—	—									

To maintain constant power, correct manifold pressure approximately 0.5 in Hg for each 10°C variation in induction air temperature from standard altitude temperature. Add manifold pressure for air temperature above standard; subtract for temperature below standard.

NOTE: Full throttle manifold pressure values may not be obtainable when atmospheric conditions are non-standard.



**CHECK FOR APPROACH (GAREL)**

- 1. ATIS ..... Noted
- 2. Approach Briefing ..... Completed
- 3. Gyro ..... Checked
- 4. Altimeter ..... QNH Set - Reading XXXX feet
- 5. Radio - Nav Aids ..... Set - Volume Checked
- 6. FUEL (Essence) Electric pump ..... ON - Fuel pressure CHECKED
  - Quantity ..... Endurance (X Hours X minutes)
  - Selector ..... ON Fullest tank
  - Mixture ..... Full rich
- 7. Lights ..... LANDING LIGHT ON

**CHECK FOR APPROACH COMPLETED**

**FINAL CHECK**

- 1. Autopilot ..... Off
- 2. Final Approach ..... Stabilized (Centerline - Glidepath - Speed)
- 3. Gear ..... Down / Three greens checked
- 4. Configuration ..... Full Flaps (3<sup>rd</sup> Notch / 40°)
- 5. Propeller ..... HIGH RPM

**FINAL CHECK COMPLETED**

**CHECK AFTER LANDING**

- 1. Flaps ..... UP
- 2. Pitot Heater ..... OFF
- 3 Transponder ..... GND - 7000
- 4. Lights ..... Ldg OFF / Fin Strobe ON / Nav OFF / Taxi ON
- 5. Electric Fuel Pump ..... OFF
- 6. Trims ..... SET NEUTRAL

**CHECK AFTER LANDING COMPLETED**

**PARKING CHECK**

- 1. Throttle ..... 1000 - 1200RPM
- 2. Parking Brake ..... SET
- 3. Taxi / Fin Strobe ..... OFF
- 4. Radio Master ..... OFF
- 5. FD/AP Master ..... OFF
- 6. Mixture ..... IDLE CUT-OFF
- 7. Magnetos ..... OFF
- 8. Master (Bat + Alt.) ..... OFF

**PARKING CHECK COMPLETED**

**DDMP Digital Display Monitoring Panel  
ABREVIATIONS IN THE EXCEEDANCE MODE**

- 1. LO VLT Low System Voltage
- 2. HI VLT High System Voltage
- 3. MAP High Manifold Pressure
- 4. RPM High RPM
- 5. CHT High Cylinder Head Temperature
- 6. OT High Oil Temperature
- 7. LOP Low Oil Pressure
- 8. HOP High Oil Pressure
- 9. LO VAC Low Vacuum
- 10. HI VAC High Vacuum
- 11. LFQ Low Left Fuel Quantity
- 12. RFQ Low Right Fuel Quantity