

**PREFLIGHT CHECK**

1. Cockpit and outside checks .....	COMPLETED .....	1
2. Aircraft papers .....	ON BOARD .....	2
3. Aircraft logbook .....	CHECKED .....	3
4. Tow bar .....	SECURED .....	4
5. Baggage .....	SECURED .....	5

***PREFLIGHT CHECK COMPLETED*****BEFORE ENGINE START CHECK**

1. Parking brake .....	SET .....	1
2. Seat belts .....	FASTENED .....	2
3. Pax briefing .....	COMPLETED .....	3
4. Electrical switches .....	ALL OFF .....	4
5. Circuit breakers .....	CHECKED IN .....	5
6. Control .....	FREE and CORRECT .....	6
7. Battery master switch .....	ON .....	7
8. Fuel .....	QUANTITY and ENDURANCE .....	8
9. Fuel valve .....	OPEN .....	9
10. ELT .....	CHECK ARMED (no red led) .....	10

***BEFORE ENGINE CHECK COMPLETED*****STARTING ENGINE CHECK**

1. Strobe .....	ON .....	1
2. Mixture .....	FULL RICH .....	2
3. Carburetor heater .....	COLD .....	3
4. Fuel pump .....	ON and PRESSURE CHECKED .....	4
5. Magnetos .....	SET POSITION TO BOTH .....	5
6. Area .....	CLEAR .....	6
7. Throttle .....	INJECT DURING START .....	7
8. Starter .....	DEPRESSED (max 30 sec. then wait 1') .....	8
9. Throttle .....	SET 1200 RPM .....	9
10. Oil pressure .....	CHECKED RISING (green arc) .....	10

***STARTING ENGINE CHECK COMPLETED*****AFTER ENGINE START CHECK**

1. Navigation lights .....	ON .....	1
2. Fuel pump .....	OFF and PRESSURE CHECKED .....	2
3. Alternator .....	ON .....	3
4. Voltmeter .....	CHECKED .....	4
5. Pressure indicators .....	CHECKED .....	5
6. Suction .....	CHECKED .....	6
7. Annunciator lights .....	TESTED .....	7
8. Avionics master switched & FLARM .....	ON .....	8
9. Flaps .....	UP .....	9
10. Altimeters .....	SET and CHECKED .....	10
11. Avionics (COM, NAV, GPS) .....	SET and CHECKED .....	11
12. Transponder .....	SET and CHECKED .....	12

***AFTER ENGINE CHECK COMPLETED***

**TAXI CHECK**

- |                              |               |   |
|------------------------------|---------------|---|
| 1. Brakes and Steering ..... | CHECKED ..... | 1 |
| 2. Gyro Instruments .....    | CHECKED ..... | 2 |

**TAXI CHECK COMPLETED****RUN UP CHECK**

- |                                 |  |    |
|---------------------------------|--|----|
| 1. Parking brake .....          | SET .....                                | 1  |
| 2. Throttle .....               | SET 1200 RPM .....                       | 2  |
| 3. Engine instruments.....      | GREEN ARC.....                           | 3  |
| 4. Rear and propeller area..... | CLEAR .....                              | 4  |
| 5. Throttle .....               | SET 2000 RPM .....                       | 5  |
| 6. Magnetos.....                | CHECKED (max drop 175-max diff 50) ..... | 6  |
| 7. Carburetor heater .....      | CHECKED (drop 100).....                  | 7  |
| 8. Mixture.....                 | CHECKED (EGT and RPM).....               | 8  |
| 9. Engine instruments.....      | CHECKED .....                            | 9  |
| 10. Voltmeter .....             | CHECKED .....                            | 10 |
| 11. Suction .....               | CHECKED .....                            | 11 |
| 12. Annunciator lights.....     | CHECKED .....                            | 12 |
| 13. Throttle idle.....          | CHECKED (600-650 rpm).....               | 13 |
| 14. Throttle .....              | SET 1200 RPM .....                       | 14 |

**RUN UP CHECK COMPLETED****BEFORE TAKE-OFF CHECK**

- |  |   |    |
|--|---|----|
| 1. Magnetos.....                         | L+R (BOTH).....                         | 1  |
| 2. Fuel .....                            | QUANTITY and ENDURANCE .....            | 2  |
| 3. Fuel pump .....                       | ON and PRESSURE CHECKED .....           | 3  |
| 4. Fuel valve .....                      | OPEN.....                               | 4  |
| 5. Mixture.....                          | RICH or AS REQUIRED .....               | 5  |
| 6. Carburetor heater .....               | COLD .....                              | 6  |
| 7. Engine instruments.....               | CHECKED .....                           | 7  |
| 8. Flight instruments and avionics ..... | SET and CHECKED .....                   | 8  |
| 9. Trim .....                            | SET FOR TAKE-OFF.....                   | 9  |
| 10. Flaps.....                           | FULL THEN UP 1 <sup>ST</sup> NOTCH..... | 10 |
| 11. Seats .....                          | ADJUSTED and LOCKED .....               | 11 |
| 12. Seats belts.....                     | FASTENED.....                           | 12 |
| 13. Control.....                         | FREE and CORECT .....                   | 13 |
| 14. Departure briefing.....              | COMPLETED.....                          | 14 |

**BEFORE TAKE-OFF CHECK COMPLETED****LINE UP CHECK**

- |                                 |                               |   |
|---------------------------------|-------------------------------|---|
| 1. Landing and Taxi lights..... | ON .....                      | 1 |
| 2. Approach sectors .....       | FREE .....                    | 2 |
| 3. Runway .....                 | IDENTIFIED .....              | 3 |
| 4. Canopy .....                 | CLOSED and LOCKED .....       | 4 |
| 5. Power .....                  | SET FULL (min 2200 RPM) ..... | 5 |
| 6. Engine instruments.....      | CHECKED .....                 | 6 |
| 7. Annunciator lights.....      | CHECKED .....                 | 7 |

**LINE UP CHECK COMPLETED**

**CLIMB CHECK**

- |                      |  |   |
|----------------------|--|---|
| 1. Flaps.....        | UP .....   | 1 |
| 2. Fuel pump.....    | OFF and PRESSURE CHECKED.....                          | 2 |
| 3. Transponder ..... | CHECK MODE "ALT" .....                                 | 3 |
| 4. Power .....       | CHECK FULL <b>POWER</b> (lean for climb > 5000ft)..... | 4 |

**CLIMB CHECK COMPLETED****CRUISE CHECK**

- |                            |  |   |
|----------------------------|--|---|
| 1. Altimeter .....         | SET and CHECKED.....                     | 1 |
| 2. Directional gyro.....   | SET and CHECKED.....                     | 2 |
| 3. Engine instruments..... | CHECKED .....                            | 3 |
| 4. Fuel.....               | QUANTITY and ENDURANCE .....             | 4 |
| 5. Power .....             | SET <b>2500</b> RPM or AS REQUIRED ..... | 5 |
| 6. Mixture.....            | SET ( <b>EGT Peak -50F</b> ).....        | 6 |

**CRUISE CHECK COMPLETED****DESCENT CHECK**

- |  |                                |   |
|--|--------------------------------|---|
| 1. ATIS .....                            | RECEIVED (if applicable) ..... | 1 |
| 2. Altimeter .....                       | SET and CHECKED.....           | 2 |
| 3. Briefing for approach.....            | COMPLETED.....                 | 3 |
| 4. Circuit breakers .....                | CHECKED .....                  | 4 |
| 5. Directional gyro.....                 | SET and CHECKED.....           | 5 |
| 6. Elements for heating.....             | AS REQUIRED .....              | 6 |
| 7. Flight instruments and Avionics ..... | CHECKED and SET.....           | 7 |
| 8. Fasten seats belts .....              | SET .....                      | 8 |

**DESCENT CHECK COMPLETED****APPROACH CHECK**

- |                                 |   |   |
|---------------------------------|---|---|
| 1. Landing and Taxi lights..... | Check ON .....                            | 1 |
| 2. Altimeter .....              | SET and CHECKED.....                      | 2 |
| 3. Fuel.....                    | QUANTITY and ENDURANCE .....              | 3 |
| 4. Fuel pump.....               | ON and PRESSURE CHECKED.....              | 4 |
| 5. Carburator heater .....      | AS REQUIRED .....                         | 5 |
| 6. Mixture.....                 | FULL RICH or AS REQUIRED.....             | 6 |
| 7. Flaps.....                   | 1 <sup>st</sup> NOTCH or AS REQUIRED..... | 7 |

**APPROACH CHECK COMPLETED****FINAL CHECK**

- |                            |  |   |
|----------------------------|--|---|
| 1. Flaps.....              | FULL DOWN ( <b>extend below 150 km/h</b> ) ..... | 1 |
| 2. Mixture.....            | FULL RICH .....                                  | 2 |
| 3. Carburator heater ..... | COLD .....                                       | 3 |

**FINAL CHECK COMPLETED**

**AFTER LANDING CHECK**

- 1. Flaps..... UP ..... 1
- 2. Fuel pump ..... OFF ..... 2
- 3. Transponder ..... CHECK MODE “STBY” ..... 3
- 4. Lights..... AS REQUIRED ..... 4

***AFTER LANDING CHECK COMPLETED***

**ENGINE SHUT DOWN CHECK**

- 1. Parking brakes ..... SET ..... 1
- 2. Throttle ..... SET 1200 RPM ..... 2
- 3. Avionics master switch & FLARM..... OFF ..... 3
- 4. ELT..... CHECK NO RED LED ..... 4
- 5. Throttle ..... IDLE ..... 5
- 6. Magnetos..... OFF then BOTH ..... 6
- 7. Throttle ..... SET 1000 RPM ..... 7
- 8. Mixture..... CUT OFF ..... 8
- 9. Magnetos..... OFF ..... 9
- 10. Alternator..... OFF ..... 10
- 11. Battery master switch ..... OFF ..... 11
- 12. Lights..... OFF ..... 12
- 13. Throttle ..... IDLE ..... 13
- 14. Flaps..... DOWN ..... 14
- 15. Auxiliary tank lever ..... CHECK PUSHED (closed or as required)..... 15

***ENGINE SHUT DOWN CHECK COMPLETED***

**SPEED KIAS (MTOW)**

Vr	100 km/h	Flaps (Vfe)	170 km/h
Vx	130 km/h	Flaps full ops (Vfo)	150 km/h
Vy	150 km/h	Vref	120 km/h
Vcc	166 - (140 at ceiling alt)	Best glide	145 km/h
Va	215 km/h	Xwind	40 km/h