

PREFLIGHT CHECK

CABIN

- 1 Aircraft Log & Aircraft Papers ..... CHECKED
- 2 Control Lock ..... REMOVED & STOWED AWAY
- 3 Avionics ..... OFF
- 4 Ignition Switch ..... OFF & KEY REMOVED
- 5 Master Switch ..... ON
- 6 Fuel Quantity Indicators ..... CHECKED (Endurance !)
- 7 Flaps ..... FULL DOWN
- 8 Master Switch ..... OFF

OUTSIDE

- 9 Outside Check ..... ACCORDING AFM

PREFLIGHT CHECK COMPLETED

CHECK BEFORE ENGINE START

- 1 Cabin Doors & Windows ..... CLOSED
- 2 Seats, Seat Belts ..... ADJUSTED & SECURED
- 3 Parking Brake ..... SET
- 4 Fuel Shutoff Valve ..... ON
- 5 Master Switch ..... ON
- 6 Flaps ..... UP
- 7 Mixture ..... RICH
- 8 Throttle ..... OPEN 1 cm
- 9 Carburettor Heat ..... COLD
- 10 Beacon Light ..... ON
- 11 Circuit Breakers ..... CHECKED

CHECK BEFORE ENGINE START COMPLETED

STARTING ENGINE & AFTER ENGINE START CHECK

- 1 Primer (cold engine only ! ) ..... 2 STROKES with Throttle
- 2 Propeller Area & Zone behind Aircraft ..... CLEAR
- 3 Ignition Switch ..... START
- 4 Throttle ..... 1 000 rpm
- 5 Oil Pressure (after max 30" ) ..... **WITHIN GREEN ARC**
- 6 Ammeter ..... CHECKED
- 7 Ventilation, Heater, Defroster ..... AS REQUIRED
- 8 Avionics & Transponder ..... ON & SET AS REQUIRED
- 9 FLARM ..... ON
- 10 Engine Warm Up ..... AS REQUIRED
- 11 Parking Brake ..... RELEASED

STARTING & AFTER ENGINE START CHECK COMPLETED – READY TO TAXI

**TAXI CHECK**

- 1 Brakes & Steering ..... CHECKED
- 2 Gyro Instruments & Magnetic Compass ..... CHECKED

**TAXI CHECK COMPLETED**

**RUN UP**

- 1 Parking Brake ..... SET
- 2 Oil Temperature & Oil Pressure (Temp > 24°C) ..... **WITHIN GREEN ARC**
- 3 Zone behind Aircraft ..... CLEAR
- 4 Throttle ..... 1 700 rpm
- 5 Carburettor Heat ..... CHECK OPERATION
- 6 Mixture ..... CHECK OPERATION
- 7 Magnetos (L – B – R – B) ..... CHECKED  
 ..... (MAX. 125 rpm / MAX DIFF. 75 rpm)
- 8 Suction ..... **WITHIN GREEN ARC**
- 9 Ammeter ..... CHECKED
- 10 Throttle ..... IDLE (Min. 500 rpm – Max. 700 rpm)
- 11 Throttle ..... 1 000 rpm

**RUN UP COMPLETED**

**CHECK BEFORE DEPARTURE**

- 1 Seats, Seat Belts (**PAX**) ..... RECHECKED
- 2 Cabin Doors & Windows ..... CLOSED
- 3 Fuel Quantity L & R ..... CHECKED (**Endurance !**)
- 4 Fuel Shutoff Valve ..... ON
- 5 Flaps ..... AS REQUIRED
- 6 Mixture ..... RICH (below 3 000 ft AMSL)
- 7 Carburettor Heat ..... COLD
- 8 Elevator Trim ..... SET FOR TAKE OFF
- 9 Circuit Breakers ..... CHECKED
- 10 Magnetos ..... BOTH
- 11 Master Switch ..... ON
- 12 Flight Instruments ..... CHECKED & SET
- 13 Engine Instruments ..... CHECKED
- 14 Flight Controls ..... FREE & CORRECT
- 15 Departure & Emergency Briefing ..... COMPLETED
- 16 Parking Brake ..... RELEASED

**CHECK BEFORE DEPARTURE COMPLETED – READY TO LINE UP**

Approach Sector & Runway ..... FREE / ENTER THE RUNWAY  
 ..... & LINE UP

LINE UP CHECK

- 1 Runway ..... IDENTIFIED & DG SET
- 2 Wind ..... CHECKED
- 3 Landing Light & Navigation Lights..... ON
- 4 Transponder "Mode ALT" ..... DISPLAY "GND" (7 000)
- 5 Time ..... NOTED

LINE UP CHECK COMPLETED

CLIMB CHECK

- 1 Power ..... FULL POWER
- 2 Flaps ..... UP (clear of obstacles,  
 ..... +ve ROC, SPEED > 64 mph)
- 3 Landing Light ..... AS REQUIRED
- 4 Transponder "Mode ALT" ..... DISPLAY "ALT" (7 000)

CLIMB CHECK COMPLETED

CRUISE CHECK

- 1 Altimeter ..... SET AS REQUIRED
- 2 Directional Gyro ..... RECHECKED
- 3 Cruise Power ..... SET (according AFM)
- 4 Mixture ..... LEANED (above 5 000 ft AMSL)
- 5 Fuel Quantity L or R..... CHECKED (Endurance !)
- 6 Engine Instruments..... **WITHIN GREEN ARC**

CRUISE CHECK COMPLETED

DESCENT CHECK

- 1 ATIS (if available) ..... NOTED
- 2 Approach Briefing ..... COMPLETED
- 3 Avionics..... SET
- 4 Directional Gyro ..... RECHECKED
- 5 Mixture ..... SET AS REQUIRED
- 6 Cabin & PAX..... SECURED

DESCENT CHECK COMPLETED

APPROACH CHECK

- 1 Altimeter ..... SET QNH (D/W Altitude)
- 2 Landing Light ..... ON
- 3 Carburettor Heat ..... AS REQUIRED
- 4 Mixture ..... RICH / AS REQUIRED
- 5 Fuel Quantity L & R ..... CHECKED (Endurance !)
- 6 Fuel Shutoff Valve ..... ON

APPROACH CHECK COMPLETED

**FINAL CHECK**

- 1 Carburettor Heat ..... *push*..... COLD
- 2 Mixture ..... *push*..... RICH / AS REQUIRED
- 3 Flaps ..... *down*..... SET FOR LANDING

**FINAL CHECK COMPLETED**

**AFTER LANDING CHECK**

- 1 Transponder “Mode ALT” ..... DISPLAY “**GND**”
- 2 Landing Light & Navigation Lights..... OFF
- 3 Flaps ..... UP
- 4 Elevator Trim..... SET FOR TAKE OFF

**AFTER LANDING CHECK COMPLETED**

**PARKING & ENGINE SHUT DOWN**

- 1 Parking Brake ..... SET AS REQUIRED
- 2 Throttle ..... **1 000 rpm !**
- 3 COM..... MONITOR 121.50
- 4 Avionics & Transponder ..... OFF
- 5 FLARM..... OFF
- 6 Electrical Consumers (**except beacon light**) ..... OFF
- 7 Throttle at Idle ..... CHECK DEAD CUT
- 8 Mixture ..... IDLE CUT OFF
- 9 Ignition Switch..... **OFF & KEY REMOVED**
- 10 Master Switch ..... OFF
- 11 Beacon Light..... OFF
- 12 Flight Data & Aircraft Log ..... NOTED

**PARKING & ENGINE SHUT DOWN CHECK COMPLETED**

**Important Data for Cessna C150 (according AFM)..... check T/O performance according AFM**

<b>V<sub>R</sub></b> (Rotating speed) .....	<b>50 mph</b>
<b>V<sub>X</sub></b> (Best angle of climb speed).....	<b>64 mph</b>
<b>V<sub>Y</sub></b> (Best rate of climb speed).....	<b>70 mph</b>
<b>V<sub>A</sub></b> (Manoeuvring speed).....	<b>109 mph</b>
<b>V<sub>G</sub></b> (Best glide speed) ( <i>clean</i> ).....	<b>65 mph</b>
<b>V<sub>NO</sub></b> (Max. operating speed).....	<b>120 mph</b>
<b>V<sub>NE</sub></b> (Never exceed speed).....	<b>162 mph</b>
<b>V<sub>FE</sub></b> (Max. flaps extend speed) ....	<b>100 mph</b>
<b>V<sub>S</sub></b> (Stalling speed - clean).....	<b>46 mph</b>
<b>V<sub>SO</sub></b> (Stalling speed – full flap) .....	<b>38 mph</b>
<b>V<sub>initial</sub></b> .....	<b>80 mph</b>
<b>V<sub>intermediate</sub></b> .....	<b>70 mph</b>
<b>V<sub>final</sub></b> .....	<b>60 mph</b>
<b>V<sub>cruise climb</sub></b> .....	<b>80 mph</b>
<b>Max. Crosswind</b> .....	<b>15 kt</b>
<b>Service Ceiling</b> .....	<b>12 000 ft</b>
<b>Spinning</b> .....	<b>prohibited</b>

**Weights**

<b>MTOW</b> .....	1 600 lb (726 kg)
<b>Empty weight</b> ....	1 157 lb (526 kg)
<b>Max. useful load</b> ...	443 lb (200 kg)

**Fuel (AVGAS 100LL)**

<b>Max. capacity</b> .....	144 l (38 US Gal)
<b>Usable fuel</b> .....	130 l (35 US Gal)
<b>Fuel flow</b> .....	30 l/h (7.9 US Gal/h)

**Oil (15W40)**

<b>Max. capacity</b> .....	6 US Quarts
<b>Min. quantity</b> .....	4 US Quarts

**Tyre pressure**

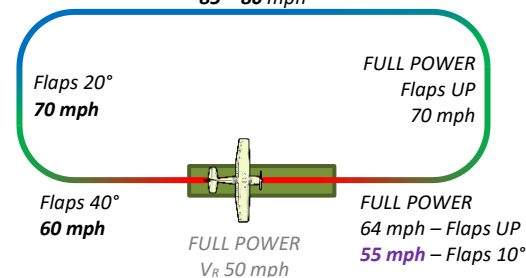
<b>Nose wheel</b> .....	1.9 bar (28 psi)
<b>Main wheel</b> .....	2.1 bar (30 psi)

**Power settings**(Mixture leaned, Temp. ISA)

Max T/O power .....	2 800 rpm
Max overspeed .. <b>20 sec</b> .....	2 940 rpm
Cruising power .....	2 000 – 2 800 rpm

**Circuit** (Power, Speed, Configuration)

<b>POWER 1900-2100 rpm</b>
Flaps 10°
<b>85 – 80 mph</b>



**Engine:** ..... Rolls-Royce Continental, O-240-A (130 hp)  
**Electrical system:** ..... 14 V DC  
**Battery:**..... 12 V DC

Corrections: Imp Gal substituted with US Gal