

PREFLIGHT WALK-AROUND

CABIN

Doors	UNLOCK/OPEN/ CLOSE/SECURE
All accessible electrical harnesses, fuel lines and control system assemblies behind the cabin*	Remove Seats CHECK condition VERIFY no fuel odor
BPRS Handle / Pin	CHECK, Pin inserted
Ignition Switch or MAG L / MAG R Switches	CHECK OFF
Green Electrical Switches	ALL OFF
ELT switches (remote and transmitter)	CHECK armed
Required Documents	On Board
Flight Controls, Flaps	Free and Correct
Visible rudder cables	CHECK condition
Circuit Breakers	IN
Battery Disconnect Switch (if installed)	CONNECTED
Master & Avionics or Master BAT & Master GEN	ON
Generator Fail light	Verify ON
Displays	Verify ON
Voltmeter	12 - 14 V
Lights	CHECK operation
Fuel Quantity	CHECK
Fuel Valve	OPEN

* Only before first flight of the day.

CABIN (continue)

Avionics & Master or Master BAT & Master GEN	OFF
ELT (if installed)	ARMED
Circuit Breakers	CHECK IN

LEFT FUSELAGE

COM/XPDR antennas	Condition and attachment
Wing / Fuselage Seal	CHECK condition
Fuel cap	CHECK fuel quantity and secure

EMPENNAGE

Tiedown Rope	Remove
Horizontal and Vertical Stabilizers	CHECK condition
Elevator and Elevator U-Piece	Condition and movement
Rudder	Condition and movement
Tail lights	CHECK condition
Hinges, Bolts, Springs and Pins	Secure

RIGHT FUSELAGE

Wing / Fuselage Seal	CHECK
Door Lock	Unlock
Parachute cover, strap covers	Sealed and secure
Fuel system breather	CHECK for blockage

RIGHT MAIN LANDING GEAR

Landing Gear	CHECK condition
Tire	Condition, inflation and wear
Wheel and brake	Fluid Leaks, evidence of overheating, general condition and wear
Wheel Fairing (if applicable)	CHECK attachment
Checks and Tiedown rings / ropes	REMOVE

RIGHT WING

Flaperon	Condition and movement
Flaperon Gap Seal	CHECK condition, no wrinkles
Hinges, Bolts, Safety Nuts	CHECK condition and secured
NAV/AC lights	CHECK condition
Leading Edge	CHECK condition
Water Drain Holes	Clean
Fuel Cap	CHECK quantity and secure
Pitot Tube	Cover REMOVED Tube clear
Airbrake	CHECK condition

PROPELLER AND COWLINGS AREA

Engine Cowlings	Attachment secured
Propeller	CHECK condition
Spinner	Condition, attachment
Air inlets and Outlets	Unobstructed
Oil system breather	CHECK for blockage

ENGINE AND NOSE LANDING GEAR AREA

Engine Oil	CHECK quantity, leaks, cap and door secured
Exhaust Pipe	CHECK and condition
Gascolator	Drain 1 cup, sample
Landing Light	Attachment and condition
Nose Landing Gear	CHECK condition
Strut	CHECK condition
Wheel and Tire	Condition, inflation and wear
Wheel Fairing (if applicable)	CHECK attachment
Shock Absorber	CHECK functionality

LEFT MAIN LANDING GEAR

Landing Gear	CHECK condition
Tire	Condition, inflation and wear
Wheel and brake	Fluid Leaks, evidence of overheating, general condition and wear
Wheel Fairing (if applicable)	CHECK attachment
Checks and Tiedown rings / ropes	REMOVE

LEFT WING

Leading edge	Condition
NAV/AC lights	Condition and attachment
Flaperon	Condition, attachment, movement
Flaperon gap seal	Condition, no wrinkles
Hinges, bolts and safety nuts	Secure
Airbrake	CHECK condition

STARTING ENGINE

BEFORE STARTING ENGINE

Preflight Inspection / Logbook	Completed
Fuel Quantity	Sufficient
Emergency Equipment	On board
Passenger	Briefed
BPRS Safety Pin	Removed
Seats, Pedals, Seat belts and Baggage	Adjust and Secure
Doors	Closed and latched

STARTING ENGINE

Parking Brake	ENGAGE
Fuel Valve	OPEN
Master & Avionics or Master BAT & Master GEN	ON
Generator Fail Light	CHECK ON
Choke	As required
Propeller Area	Clear
Throttle Lever	Open 10 mm
Oil Pressure Indication	Available
Ignition Switch or MAG L / MAG R Switches	BOTH / ON
Ignition switch or Starter	START / ENGAGE

STARTING ENGINE (continue)

Throttle Lever	2000 RPM for 2 mins then 2500 RPM for warm up
Oil Pressure	CHECK
Choke	Slowly close
Engine Parameters	Monitor
Ammeter / Indication	CHECK
Generator Fail Light	CHECK OFF
NAV/AC Lights	ON

BEFORE TAXIING

Flaps	(0)
NAV/COM, GPS, XPDR	SET as required
Cabin Heating	As required
ELT	CHECK (refer to OEM)
Parking Brake	DISENGAGE

BEFORE TAKEOFF

ENGINE TEST

Parking Brake (brake pin)	ENGAGED
Doors	Latched
Choke	Verify CLOSED
Throttle Lever*	4000 RPM

*Increase the RPM slowly to assure braking force is sufficient for holding the plane in position

Generator Fail Light	CHECK OFF
Voltage	CHECK Value
Ignition switch or MAG L switch	RIGHT, note RPM, then BOTH or OFF, note RPM, then ON
Ignition switch or MAG R switch	LEFT, note RPM, then BOTH or OFF, note RPM, then ON
Engine Parameters	CHECK
Throttle Lever	Set to just above idle
Parking Brake (brake pin)	DISENGAGED

BEFORE TAKEOFF

Seat Belts	Secured
BPRS Activation Handle	Verify Pin Removed
Airbrakes (if installed)	CHECK closed
Flaps	(+1)
Trim	Set Neutral
Fuel Valve	CHECK OPEN
Fuel Quantity	CHECK
Fuel (Booster) pump	ON

BEFORE TAKEOFF (continue)

NAV / Strobe / Landing Lights	As required
Circuit Breakers	CHECK
NAV/COM, GPS, XPDR	SET
Autopilot (if installed)	CHECK disengaged
Altimeter	SET
Engine Parameters	CHECK
Flight Controls	Unobstructed and Correct

TAKEOFF

NORMAL TAKEOFF

Brakes	Release
Throttle Lever	Full Forward
Engine Parameters	CHECK
Airspeed Indication	CHECK
Elevator Control	Rotate smoothly at about 55 KIAS
at safe altitude	Flaps (0) / RPM 5500

SHORT FIELD TAKEOFF

Flaps	(+2)
Brakes	HOLD
Throttle Lever	Full Forward
Engine Parameters	CHECK
Brakes	Release
Airspeed Indication	CHECK
Elevator Control	Rotate smoothly at about 55 KIAS
Airspeed at Obstacle	58 KIAS
at 60 KIAS, FLAPS	(+1)
at safe altitude	Flaps (0) / RPM 5500

CLIMB

Climb Power / RPM	SET
Flaps	Verify (0)
Engine Parameters	CHECK
Best Climb Speed (V_y)	76 KIAS



CRUISE

Flaps	Verify (0)
Fuel (Booster) pump	OFF
Cruise Power	SET
Engine Parameters	CHECK
Autopilot (if installed)	As required

DESCENT / APPROACH

Altimeter	SET
Autopilot (if installed)	Disengage
Cabin heating	As required
Landing Light	ON
Fuel System	CHECK
Engine Parameters	CHECK
Parking Brake	CHECK Disengaged
Seat Belts	Secure

BEFORE LANDING/LANDING

Approach Speed	Reduce below 70 KIAS
Flaps	As required (+1)
Fuel (Booster) pump	ON
Flaps (on final)	(+2) below 60 KIAS
Airbrakes (if installed)	As required
Trim	As required
Final Speed	55 KIAS



BALKED LANDING

Throttle Lever	Full Forward
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Airbrakes (if installed)	CLOSE
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Flaps	(+1)
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Airspeed	57 - 60 KIAS
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After Clear of Obstacles:

Flaps	(0)
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Airspeed V_y	76 KIAS
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AFTER LANDING

Throttle Lever	IDLE
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Flaps	(0)
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Fuel (Booster) pump	OFF
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Transponder	CHECK not transmitting
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Lights	As required
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Airbrakes	Close at taxi speed
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SHUT DOWN

Green electrical switches	All OFF
Throttle lever	IDLE
Ignition Switch or MAG L / MAG R Switches	OFF
Avionics & Master or Master GEN & Master BAT	OFF
BPRS safety pin	Insert
ELT	Transmit Light OUT



PARKING

BPRS Safety Pin	CHECK Inserted / Secured
Parking Brake	ENGAGED Only if necessary
Fuel Valve	CLOSED
Pitot Covers	Installed
Chocks, Tie-downs	As required

