

C182T

BEFORE ENGINE START

Preflight Inspection COMPLETED
Passenger Briefing COMPLETED
Circuit Breakers CHECK IN
Electrical Equipment OFF
Cowl Flaps OPEN
Fuel Selector BOTH
Park Brake SET

ENGINE START UP

Throttle SET ¼ INCH
Propellor HIGH RPM
Mixture IDLE CUTOFF
STBY BATT Switch TEST (10 sec)
STBY BATT Switch ON
Engine Indications NO RED X's
BUS E Volts CHECK 24V MIN
BUS M Volts CHECK 1.5V MAX
BATT S AMPS CHECK DISCHARGE
STBY BATT Annun CHECK SHOWN
Propellor Area CLEAR
Master ALT & BAT ON
Beacon ON
FUEL PUMP ON
Mixture SET FULL RICH
Fuel Pressure STABLE (3-5 SECS)
Mixture IDLE CUTOFF
FUEL PUMP OFF
Slipstream CLEAR
Call "CLEAR PROP"
Magnetos START
Mixture ADVANCE SMOOTHLY
Throttle SET 1000rpm
Oil Pressure GREEN RANGE (30 sec)
AMPS (M BATT) CHECK CHARGE
AMPS (BATT S) CHECK CHARGE
LOW VOLTS Annun CHECK OFF
Avionics ON

Radios ON – CHECK 121.5 – SET
Transponder STAND-BY 1200
Traffic CHECK ALL CLEAR BEFORE TAXIING
Park Brake OFF
Brakes CHECK

PRE TAKE-OFF / GROUND CHECK

Aircraft FACE INTO WIND
Park Brake ON
Flight Instruments CHECK/SET
Fuel Selector CHECK BOTH
Flaps SET
Air Conditioner OFF
Auto Pilot ON & CHECK OVERRIDE
Auto Pilot Trim DISC PRESS & CHECK AP OFF
Flight Director OFF
Elevator & Rudder Trim SET FOR TAKE OFF
Engine Run Up SET 1800rpm
Magnetos CHECK
..... (MAX DROP 175rpm, MAX DIFF 50rpm)
Propellor CYCLE x3
Vacuum CHECK
Engine Indicators CHECK
Ammeters & Voltmeters CHECK
Throttle CHECK IDLE
Throttle SET 1000rpm
Controls FULL / FREE / CORRECT
Seat Belts ADJUSTED / FASTENED
Doors LATCHED
Park Brake OFF
Pre Take-Off Safety Brief COMPLETED
Departure Procedure Brief COMPLETED

ENTERING RUNWAY

Lights LANDING/ANTI-COL/NAV LIGHTS ON
TRANSPONDER ALT
Runway CHECK ALL CLEAR

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TAKE OFF

Flaps.....10° (20° short field)
Rotate 50 – 60 KIAS
Climb Initial.....80 KIAS
Climb Initial Short Field (20° Flap)58 KIAS
Climb Enroute90 KIAS
Flaps..... RETRACT AFTER 70 KIAS
Static RPM 2300-2400 RPM

DESCENT

Cowl Flaps..... CLOSED

PRE LANDING

B – Brakes PRESSURISED, PARK BRAKE OFF
U – UndercarriageFIXED
M – MixtureFULL RICH
F – Fuel..... BOTH / SUFFICIENT
I – Instruments..... IN GREEN RANGE
S – Switches ... LANDING LIGHT, CCT BREAKERS
H – Hatches & Harnesses..... SECURE

Flaps..... AS REQUIRED
Air ConditionerOFF
Auto PilotOFF
CABIN PWR 12VOFF

Base80 KIAS
Over the Fence70 KIAS
Over the Fence (short field flaps FULL)....60-70 KIAS

FINAL CHECKS

M – MixtureFULL RICH
P – Propellor FULL INCREASE
U – UndercarriageFIXED
F – Flap..... CONFIGURED
F – Cowl Flap.....OPEN

POST LANDING

Lights LANDING / ANTI-COL LIGHTS OFF
TRANSPONDER STAND-BY
Flaps UP
Cowl Flap OPEN

SHUT DOWN

Radios.....CHECK 121.5 – OFF
Avionics BUS 1 & BUS 2 OFF
Mixture.....IDLE CUTOFF
Magnetos OFF
Master ALT & BAT OFF

PARKING

Control Lock INSTALLED
Wheel Chocks IN PLACE
Pitot Cover..... IN PLACE
Tie Downs.....SECURE
Cabin Door CLOSED/LOCKED

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HANDLING NOTES

V _{NE}	175 kts
V _{NO}	140 kts
V _A (MTOW)	110 kts
V _A (1179 kg)	101 kts
V _A (953 kg)	91 kts
V _{FE} (10°)	140 kts
V _{FE} (20°)	120 kts
V _{FE} (FULL).....	100 kts
V _R	50 - 60 kts
V _{TOSS}	70 kts
V _X	65 kts
V _Y	80 kts
V _S	51 kts
V _{SO}	41 kts
Short Field (20° FLAP)	58 kts @ 50 FEET
Normal Approach (BASE)	80-85 kts
Normal Approach (FINAL, 40° FLAP)	70 kts
Normal Approach (FINAL, FLAPLESS)	80 kts
Best Glide.....	70 kts
Max Demonstrated x/w.....	15 kts

Max Weight Baggage Comp A... 54 kg (120 lbs)
Max Weight Baggage Comp B 36 kg (80 lbs)
Useful Load.....202 kg (445 lbs) with Full Fuel

FUEL

Useable Fuel	330 L (87 US Gal)
Fuel Grade	100LL
Fuel Flow.....	50 LPH (13.1 GPH)

OIL

Maximum Oil Quantity	9 QTS
Minimum Oil Quantity.....	4 QTS
Recommended Oil Quantity	4-8 QTS
Oil	AEROSHELL W100PLUS

WEIGHTS

MTOW	1406 kg (3100 lbs)
Max Ramp Weight	1410 kg (3110 lbs)
Max Landing Weight.....	1338 kg (2950 lbs)
Max Weight Baggage Comp	90 kg (200 lbs)

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PREFLIGHT CABIN

Pitot Cover REMOVE
POH and G1000 Manual ONBOARD
Weight & Balance CHECKED
Maintenance Release CHECKED & OPENED
Control Wheel Lock REMOVED
Magnetos OFF
Avionics BUS 1 & BUS 2 OFF
Master ALT & BAT ON
PFD CHECK ON
Fuel Quantity (L & R) CHECK
LOW FUEL L & LOW FUEL R Annunciator
..... CHECK
OIL PRESSURE Annunciator CHECK
LOW VACCUM Annunciator CHECK
Avionics BUS 1 ON
Forward Avionics Fan CHECK ON
Avionics BUS 1 OFF
Avionics BUS 2 ON
Aft Avionics Fan CHECK ON
Avionics BUS 2 OFF
Landing Light CHECK
Strobe Lights CHECK
Beacon Lights CHECK
Stall Warning CHECK
PITOT HEAT (warm within 30 sec) ON
PITOT HEAT OFF
LOW VOLTS Annunciator CHECK
Flaps DOWN
Master ALT & BAT OFF
Elevator & Rudder Trim SET
Fuel Selector BOTH
ALT STATIC AIR Valve OFF
Fire Extinguisher CHECK GAUGE

PREFLIGHT EMPENNAGE

Baggage Door LOCKED
Control Surfaces CHECK

Trim Tabs CHECK
Antennas CHECK

PREFLIGHT RIGHT WING

Flap CHECK
Aileron CHECK
Fuel Tank Vent Opening CHECK CLEAR
Main Wheel Tyre CHECK
Fuel Tank DRAIN x5
Fuel Tank (Level and Filler Cap Vent) CHECK

PREFLIGHT NOSE

Static Source Opening (right side) CHECK
Fuel Strainer DRAIN x3
Engine Cooling Air Inlets CHECK
Propellor and Spinner CHECK
Propellor and Spinner CHECK
Propellor CLEAR LOOSE STONES
Air Filter CHECK
Nosewheel Strut and Tyre CHECK
Engine Oil > 4 QTS
Static Source Opening (left side) CHECK

PREFLIGHT LEFT WING

Landing Light CHECK
Fuel Tank DRAIN x5
Fuel Tank (Level and Filler Cap Vent) CHECK
Main Wheel Tyre CHECK
Fuel Tank Vent Opening CHECK CLEAR
Aileron CHECK
Flap CHECK