

Checklist: N46287

PRELIGHT INSPECTION

CABIN

Certificates/DocumentsIN AIRCRAFT

Airworthiness Certificate

Registration

Radio Operators (International Flights Only)

Operating Limitations / Airplane Flight Manual

Weight & Balance

Parking BrakeSET (N/A on floats)

Control Wheel Lock.....REMOVE

Ignition SwitchOFF

Master SwitchON

Fuel Quantity IndicatorsCHECK QUANTITY

Anti-collision / Strobe Lights.....CHECK OPERATION

FlapsDOWN FOR INSPECTION

****For Night Operation: LightsCHECK**

Master SwitchOFF

Fuel SelectorBOTH

Baggage DoorCHECK SECURE

TAIL SECTION

Tail Tie-Down / Rudder Gust Lock.....REMOVE

Elevator & RudderCHECK FREEDOM & SECURE

Nav. LightsUNBROKEN (WHITE)

RIGHT WING

Flap Tracks & Actuator Rod.....CHECK

AileronCHECK FREEDOM & SECURE

Nav. LightUNBROKEN (**GREEN**)

Fuel QuantityCHECK VISUALLY

Fuel Filler CapSECURE

Wing Tie-downREMOVE

Fuel Tank Sump Quick-Drain ValveDRAIN

Main Wheel Tire.....CHECK WEAR & INFLATION (29 psi)

NOSE

WindshieldCHECK CLEAN

Wheel ChocksREMOVE Engine Oil

Dipstick.....CHECK (6-8 qt.)

Engine Fuel Strainer.....DRAIN 4 SECONDS

Nose WheelCHECK WEAR & INFLATION (31 psi)

Shock StrutCHECK PROPER INFLATION (45 psi)

Approx. 3.25 inches showing

Air Inlets.....CHECK FREE OF FOREIGN MATTER

Landing LightCHECK

Air Filter.....CHECK

Propeller & SpinnerCHECK

Tow BarREMOVE

Static Port.....CHECK

LEFT WING

Main Wheel TireCHECK WEAR & INFLATION (29 psi)

Fuel Tank Sump Quick-Drain ValveDRAIN

Wing Tie-downREMOVE

Fuel QuantityCHECK VISUALLY

Fuel Filler CapSECURE

Pitot Tube / Cover.....CHECK / REMOVE

Fuel Tank Vent OpeningCHECK

Stall Warning Vent.....CHECK

Nav. LightUNBROKEN (**RED**)

AileronCHECK FREEDOM & SECURE

Flap Tracks & Actuator Rod.....CHECK

BEFORE STARTING ENGINE

ChocksREMOVE

Preflight InspectionCOMPLETE

Passenger BriefingCOMPLETE

Seats, Seat Belts, HarnessADJUST & LOCK

BrakesTEST & SET (N/A on floats)

Circuit BreakersCHECK IN

Radios & Electrical Equipment.....OFF

Fuel Selector.....BOTH

Tow Bar.....REMOVE

STARTING ENGINE

MixtureRICH

Carburetor HeatCOLD

Prime(2-6 strokes) AS REQUIRED

Primer.....IN & LOCKED

ThrottleOPEN 1/8 inch

Master SwitchON

Anti-collision / Strobe Lights.....CHECK OPERATION

Propeller AreaCLEAR

Ignition SwitchSTART

Oil PressureCHECK

Engine Warm-up.....THROTTLE 800-1200

RPM

Fuel PumpOFF

MixtureLEAN FOR TAXI

BEFORE TAXI

Lights & StrobesAS REQUIRED

RadiosON-SET

TransponderSTANDBY

FlapsUP

Seats, Belts, HarnessesCHECK SECURE

BrakesTEST

BEFORE TAKEOFF

Parking BrakeSET

Seats, Belts, HarnessesCHECK SECURE

Cabin Doors & Windows.....CLOSED & LOCKED

Light ControlsFREE & CORRECT

Fuel SelectorBOTH

Elevator TrimSET for takeoff

Fuel QuantityCHECK

MixtureRICH

Throttle1700 RPM

MagnetosCHECK (125 max drop / 50 max diff.)

Carburetor HeatCHECK

Suction GageCHECK (4.6 to 5.4)

Engine Instruments & AmmeterCHECK

ThrottleCHECK IDLE LIMITS (650 RPM)

If holding for Takeoff IDLE at 1200 RPM

Throttle Friction LockADJUST

Flight InstrumentsCHECK & SET

RadiosSET

TransponderALTITUDE

Wing FlapsSET for takeoff

LightsAS DESIRED

BrakesRELEASE

*** (Note time of departure for fuel purposes.)

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TAKE OFF

NORMAL TAKEOFF

Wing Flaps0 Degrees
Carburetor HeatCOLD
Throttle.....FULL OPEN
Elevator ControlLIFT NOSE WHEEL (60 MPH)
Climb Speed75- 85 MPH

ENROUTE CLIMB

Airspeed80-90 MPH
ThrottleFULL OPEN
MixtureRICH (until 3000 feet)

CRUISE

Power2200 – 2700 RPM
ElevatorADJUST
MixtureLEAN for max rpm

DESCENT

Fuel Selector.....BOTH
MixtureRICH
PowerAS DESIRED
Carburetor HeatAS REQUIRED

BEFORE LANDING

Seats, Belts, HarnessesSECURE
Fuel Selector.....BOTH
MixtureRICH
Carburetor HeatAPPLY FULL HEAT
Wing Flaps.....AS DESIRED
Airspeed.....70-80 MPH(flaps up), 65-75 MPH(flaps down)

BALKED LANDING (Go-Around)

Power.....FULL THROTTLE
Carburetor Heat.....COLD
Wing Flaps.....RETRACT to 20°
Upon reaching airspeed of approximately 65 MPH, retract flaps slowly.

LANDING

NORMAL LANDING

Airspeed70-80 MPH (flaps up)
Wing Flaps.....AS DESIRED (below 100 MPH)
Airspeed65-75 MPH (flaps down)
TouchdownMAINS FIRST
Landing RollLOWER NOSE WHEEL GENTLY
BrakingMINIMUM REQUIRED

AFTER LANDING

Wing FlapsUP
Carburetor HeatCOLD
LightsAS REQUIRED
*** (Note time of landing.)

SHUTDOWN

Parking BrakeSET
Radios & Electrical Equipment & LightsOFF
Throttle1000 RPM
MixtureIDLE CUT-OFF
Ignition SwitchOFF
Master SwitchOFF
Control LockINSTALL
TachometerRECORD
AircraftSECURE

EMERGENCY PROCEDURES

ENGINE FIRE DURING START (results from over priming)

Starter.....CONTINUE TO CRANK ENGINE
Throttle1700 RPM (if engine starts)
If engine start is unsuccessful, continue cranking for 2 or 3 minutes with throttle full open.

MixtureIDLE CUT-OFF

Fuel Selector.....OFF

Aircraft..... ABANDON IF FIRE CONTINUES

Smother flames with fire extinguisher, seat cushion, blanket, or loose dirt. If practical, remove carburetor air filter if it's ablaze. Make a thorough inspection of fire damage, and repair or replace damaged components before conducting flight.

ENGINE POWER LOSS DURING TAKE-OFF (Instructor Technique)

If sufficient runway remains for a normal landing land straight ahead.

If insufficient runway remains, maintain a safe airspeed and make only shallow turns to avoid obstructions.

If you have gained sufficient altitude to attempt a restart, proceed with next checklist.

ENGINE FAILURE DURING FLIGHT (restart) (Instructor Technique)

Airspeed80 MPH

Fuel SelectorSWITCH TANKS*

MixtureRICH

Carburetor Heat.....ON

Engine Gauges.....CHECK FOR CAUSE

PrimerIN & LOCKED

Ignition Switch“L” then “R” back to BOTH

Transponder7700

Radio121.5 MAYDAY**

* If engine failure was caused by fuel exhaustion, power will not be regained after tanks are switched until empty fuel lines are filled, which may require up to ten seconds.

** When calling on 121.5 say your last known position number of people on board, how much fuel, and what kind of emergency. It is recorded and they will be able to find you and take care of you faster.

EMERGENCY LANDING WITHOUT ENGINE POWER

Airspeed80 MPH

MixtureCUT—OFF

Fuel Selector.....OFF

Ignition SwitchOFF

Seat belt and harness.....TIGHT

Flaps.....AS REQUIRED WITHIN GLIDING DIST OF FIELD

(Full Flaps Down).....65-75 MPH

Master SwitchOFF

Cabin Doors.....UNLACH PRIOR TO FINAL APPROACH

TouchdownSLIGHTLY TAIL LOW(min. speed)

Apply heavy braking while holding full up elevator.

ELECTRICAL FIRE (smoke in cabin)

Master Switch.....OFF

All Electrical Switches (except ignition).....OFF

Vents / Windows.....OPEN TO VENT

SMOKE Cabin Heat.....OFF

Land as soon as Practical

ENGINE FIRE IN FLIGHT

MixtureCUT—OFF

Fuel Selector.....OFF

Master SwitchOFF

Glide Establish.....120 MPH

Cabin Heat.....OFF / CLOSED

If fire is not extinguished, increase glide speed in an attempt to find an airspeed that will provide incombustible mixture.

Magneto SwitchOFF

Proceed with EMERGENCY LANDING w/o POWER procedure

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Aircraft V-Speeds: On Floats (PK 2300)

Vr: (Rotation Speed)-----	N/A
Vx: (Best angle of climb)-----	68 MPH
*short field no obstacle with 10 degrees of flaps-----	61 MPH
Vy: (Best rate of climb)-----	71 MPH
Va: (Maneuvering Speed)-----	120 MPH
Vfe: (Max flap extended speed)-----	100 MPH
Vno: (Max structural cruising speed)-----	140 MPH
Vne: (Never exceed speed)-----	174 MPH
Vs1: (Stall Speed (clean))-----	57 MPH
Vso: (Stall Speed (dirty))-----	49 MPH
Glide: (clean)-----	80 MPH

Aircraft V-Speeds: On Wheels

Vr: (Rotation Speed)-----	60 MPH
Vx: (Best angle of climb)-----	68 MPH
*short field no obstacle with 10 degrees of flaps-----	65 MPH
Vy: (Best rate of climb)-----	82 MPH
Va: (Maneuvering Speed)-----	112 MPH
Vfe: (Max flap extended speed)-----	100 MPH
Vno: (Max structural cruising speed)-----	140 MPH
Vne: (Never exceed speed)-----	174 MPH
Vs1: (Stall Speed (clean))-----	57 MPH
Vso: (Stall Speed (dirty))-----	49 MPH
Glide: (clean)-----	80 MPH

Note: All Speeds are for Gross Weight (2300 lbs.) aircraft.

Weight & Balance: Floats (PK 2300)

Basic Empty Weight: 1526.27lbs.
Useful Load: Payload: 773.73 lbs.
Moment: 59,703.7
Center of Gravity: 39.12 in.

Weight & Balance: Wheels

Max Gross Weight: 2300 lbs.
Basic Empty Weight: 1461.2 lbs.
Useful Load: Payload: 838.8 lbs.
Moment: 58,761.6
Center of Gravity: 40.2 in.

Standard Fuel Loading:

38 Gallons: 228 lbs.