

AIRCRAFT CHECKLIST

N48918

CABIN

Aircraft Documents CHECK
Maintenance Items CHECK CURRENT
Fuel Shutoff Valve..... ON
Gust Lock DISCONNECT
Ignition Switch..... verify OFF
Flaps LOWER
Fuel Quantity CHECK QUANTITY
Beacon light ON, check
* if needed for flight
*Nav and Taxi..... ON, check
*Pitot heat ON, check
*Night light ON, check
Switches OFF
Master OFF

LEFT WING

Fuel Sump..... DRAIN SAMPLE
Flaps/Aileron CHECK for damage
and loose or missing components
Counter Weights (3) CHECK
Wing tip CHECK FOR DAMAGE
Wing Tie Down DISCONNECT
Fuel Tank Vent .. CHECK for stoppage
Stall Warning CHECK for stoppage
Pitot Tube Cover..... REMOVE
Pitot Tube CHECK for stoppage
Main Tire Pressure..... CHECK (30psi)
Main Tire Tread..... NO CORD
Brake pads and lines CHECK
Fuel Tank..... CHECK quantity
Fuel CAP SECURE

NOSE

Static Source Opening CHECK
Ground Power Port CLOSED
Prop & Spinner CHECK for damage
Alternator Belt CHECK for damage
Oil Cooler CHECK for blockage
Landing Light CHECK for damage
Air Filter CHECK for blockage
Nose Wheel Strut..... CHECK inflation
Nose Wheel Tire CHECK (30psi)
Engine Oil..... Min 4/ Fill to 5.5/ Max 6
Fuel Strainer Drain PULL 4 sec

RIGHT WING

Fuel Tank..... CHECK quantity

Fuel Cap..... SECURE
Wing Tie Down DISCONNECT
Wing Tip..... CHECK for damage
Counter Weights (3) CHECK
Aileron/Flap..... CHECK for damage
and loose or missing components
Fuel Sump..... DRAIN SAMPLE
Main Tire CHECK (30psi)
Main Tire Tread NO CORD
Brake pads and lines CHECK

FUSELAGE

Antennas (5) CHECK
Body CHECK FOR DAMAGE

TAIL

Elevators CHECK connecting points
and damage
Rudder CHECK connecting point
and damage

Tail Cone CHECK for damage
Tail Tie Down..... REMOVE

BEFORE STARTING ENGINE

Preflight Inspection..... COMPLETE
Passenger Brief COMPLETE
Hobbs and Tach Times ... RECORDED
Seats..... AJUST & LOCK
Seat Belts AJUST & LOCK
Fuel Shutoff Valve..... ON
Electrical Equipment OFF
Brakes TEST and SET
Circuit Breakers CHECK IN

STARTING ENGINE

Mixture FULL RICH
Throttle OPEN 1 inch
Carburetor Heat COLD
Beacon Light Switch..... ON
Prime AS REQUIRED (up to 3 strokes)
Propeller Area..... CLEAR
Master Switch ON
Ignition Switch..... START

AFTER ENGINE START

Throttle ADJUST 800-1000 RPM
Oil Pressure..... CHECK
Mixture LEAN for taxi (1")

BEFORE TAXI

Intercom.....ON
Crew Communication..... CHECK
Radio.....ON
DME ON (if needed)
Transponder SET SQUACK CODE
TransponderALT
NAV Light/ADS-B.....ON
ATIS/AWOS OBTAIN
Clearance OBTAIN
Flaps UP
Lights AS REQUIRED
Rolling Brake Test..... TEST

BEFORE TAKEOFF (run up)

Parking Brake SET
Cabin Doors CLOSED and LATCHED
Flight Controls..FREE and CORRECT
Flight Instruments..... SET
Fuel Shutoff Valve.....ON
Elevator Trim..... SET
Flaps 0° to 10°
Carburetor HeatCOLD
Throttle 1700 RPM
Mixture..... 7 twists ROP
Carb Heat CHECK RPM drop
Engine Instruments..... CHECK
Magnetos..... 125 drop either
50 differential
Suction Gage CHECK in green
Ammeter..... CHECK
Throttle 800 to 1000 RPM
Friction Lock SET
Radios SET and CHECK
Lights AS REQUIRED
Transponder ... VERIFY MODE & CODE
NAV Light/ADS-B..... VERIFY ON
Takeoff BriefCOMPLETE
Time..... CHECK
Brakes RELEASE

NORMAL TAKEOFF

Wing Flaps..... 0° to 10°
Carburetor HeatCOLD
Throttle FULL OPEN
Elevator Control..... Rotate at 50 KIAS
Climb Speed67 KIAS(Vy)

SHORT FIELD TAKEOFF

Wing Flaps..... 10°
Runway USE ALL
Brakes APPLY
Throttle FULL OPEN
Engine Instruments CHECK
Flight Controls NEUTRAL
Brakes RELEASE
Elevator.....ROTATE at 50 KIAS
Climb Speed54 KIAS (Vx)
-After clearing obstacle
Climb Speed67 KIAS (Vy)
-When Vy and positive rate of climb
Flaps0°

SOFT FIELD TAKEOFF

Wing Flaps..... 10°
Elevator Control..... FULL UP
Taxi.....CONTINUOUS
Throttle FULL OPEN
Accelerate on mains
Stay in ground effect until Vy
Climb Speed67 KIAS (Vy)
Flaps0°

AFTER TAKEOFF

Flaps UP
Lights AS REQUIRED
Engine Temps CHECK CHT

ENROUTE CLIMB

MixtureAS NEEDED
Airspeed.....AS NEEDED
ThrottleAS NEEDED

CRUISE

Power 2200 to 2450 RPM
Elevator Trim.....ADJUST
Mixture LEAN for altitude

DESCENT

MixtureFULL RICH

IN RANGE (when in radio range)

ATISGET WEATHER INFO

AltimeterSET

Align DG with Compass

COMPLETE

AvionicsSET

Approach Brief COMPLETE

BEFORE LANDING

Gas (fuel shut off valve) ON

Under Carriage (gear)DOWN

Mixture RICH

Props SET FOR LANDING

Seat Belts ON

SwitchesLIGHTS AS REQUIRED

Carburetor Heat ON

NORMAL LANDING

Airspeed 70 KIAS

Wing Flaps AS REQUIRED

Final Airspeed 60 KIAS

Throttle REDUCE to idle

TouchdownMAIN WHEELS 1ST

Brakes MIN REQUIRED

SHORT FIELD LANDING

Initial Airspeed 60-70 KIAS

Flaps 30°

Final Airspeed 54 KIAS (-0/+10)

Throttle IDLE when appropriate

Touchdown MAIN WHEELS FIRST

Brakes APPLY HEAVILY

Flaps 0°

Elevator FULL BACK

SOFT FIELD LANDING

Airspeed 70 KIAS

Wing Flaps 30°

Final Airspeed 60 KIAS

Throttle ABOVE IDLE

Touchdown SOFTLY

Nose Wheel KEEP UP

Elevator FULL BACK

Brakes MIN REQUIRED

REJECTED LANDING (go around)

Throttle FULL OPEN

Carburetor Heat COLD

Wing Flaps 20°

Airspeed 55 KIAS

Wing Flaps RETRACT incrementally

AFTER LANDING

Flaps UP

Mixture LEAN for taxi (1")

Carburetor Heat COLD

Transponder AS NEEDED

ENGINE SHUTDOWN

ELT VERIFY NOT ACTIVE (121.5)

Electrical Equipment OFF

Mixture IDLE CUT OFF

Switches OFF

Night Light Switch OFF

Ignition Switch OFF

Master Switch OFF

SECURE AIRCRAFT

Control Lock INSTALL

Pitot Tube Cover ATTACH

Wheel Chocks PLACE

Tie Downs ATTACH

Doors LOCK

EMERGENCY PROCEDURES ENGINE FAILURES

ENGINE FAILURE DURING TAKEOFF

Throttle IDLE
Brakes APPLY
Wing Flaps..... RETRACT
Mixture IDLE CUT-OFF
Ignition Switch.....OFF
Master SwitchOFF

ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed.....60 KIAS
Mixture IDLE CUT-OFF
Fuel Shutoff Valve.....OFF
Wing Flaps.....AS REQUIRED
Master SwitchOFF

ENGINE FAILURE DURING FLIGHT

Airspeed.....60 KIAS
Carburetor Heat ON
Mixture RICH
Fuel Shutoff Valve..... ON
Primer IN and LOCKED
Ignition Switch..... BOTH

FORCED LANDING

Airspeed.....60 KIAS
Mixture IDLE CUT-OFF
Fuel Shutoff Valve.....OFF

* If time permits:

Emergency call, safety belts, brief
passengers, squawk 7700, stow
loose articles

Wing Flaps..... 30°
Master SwitchOFF
Doors UNLATCH
Touchdown SLIGHTLY TAIL LOW
BrakesAPPLY HEAVILY

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EMERGENCY PROCEDURES FIRES

ENGINE FIRE DURING START

CrankingCONTINUE

If engine starts:

Power... 1700 RPM for a few minutes

Engine.....SHUTDOWN

If engine fails to start:

CrankingCONTINUE

Fire Extinguisher OBTAIN

Engine..... SECURE

Master Switch..... OFF

Ignition Switch OFF

Fuel Shutoff Valve OFF

Fire EXTINGUISH

ENGINE FIRE IN FLIGHT

MixtureIDLE CUT-OFF

Throttle IDLE

Fuel Shutoff Valve OFF

Cabin Heat & Air OFF

.....except for wing root vents

Master Switch.. OFF after flaps down

Emergency Descent INITIATE

CABIN FIRE IN FLIGHT

Master Switch OFF

All switches (except ignition)..... OFF

Vents/Air/Heat.....CLOSED

Fire Extinguisher EXTINGUISH

Emergency Descent INITIATE

WING FIRE

Navigation Light Switch..... OFF

Strobe Light Switch..... OFF

Pitot Heat Switch..... OFF

Emergency Descent INITIATE

EMERGENCY DESCENT

Throttle IDLE

Airspeed 85 KIAS

Wing Flaps30°

Rudder FULL SLIP