

N6506D 172N

BEFORE ENGINE START

Preflight Inspection.....COMPLETE
Passenger Brief (SAFETY).....COMPLETE
Seats / Belts.....ADJUSTED
Doors.....CLOSED / LOCKED
Fuel Selector Valve.....BOTH
Avionics Master.....OFF
Lights.....OFF
Circuit Breakers.....IN
Brakes.....HOLD

ENGINE START

Mixture.....RICH
Throttle.....1 PUMP OPEN 1/8
Carburetor Heat.....OFF
Master Switch (Batt/ALT).....ON
* Beacon / NAV comes on with Master
Wait for AHRS to Align.....
Prime (0-Hot / 1-2 Cold).....AS NEEDED
Propeller Area.....CLEAR
Ignition Switch.....START
Throttle.....800-1000 RPM
Oil Pressure.....UP WITHIN 20 SEC
Avionics Master.....ON
Wing Flaps.....RETRACT
Mixture.....LEAN FOR TAXI

AUTO PILOT

Auto Pilot Disconnect.....CHECK
Manual Electric Trim Disc.....CHECK

**Stability protection must be disabled
for maneuvers**

Autopilot Status box.....TOUCH
ESP Button.....TOUCH
*In flight hold autopilot disconnect for 5
seconds*

BEFORE TAXI

Radios.....SET
Transponder.....ALT / AS REQUIRED
ATIS.....OBTAIN
Wind.....BUG HEADING
Landing / Taxi Light.....ON
Brakes.....RELEASE / CHECK

RUN-UP

Brakes.....SET / HOLD
Doors / Windows.....CLOSED / LOCKED
Flight Controls.....FREE / CORRECT
Elevator Trim.....SET FOR TAKEOFF
Fuel Selector Vave.....BOTH

RUN-UP

Mixture.....RICH
Throttle.....1700 RPM'S
Magnetos L / R.....CHECK DROP
MAX 125, DIFFERENCE 50
Carburetor Heat.....CHECK DROP
Throttle.....IDLE / CHECK SMOOTH
Carburetor Heat.....OFF
Mixture.....LEAN FOR TAXI
Engine Gauges.....CHECK
Alternator.....CHECK
Flight Instruments.....SET / CHECK
Throttle Friction Lock.....SET
Transponder.....ALT
Clearance.....OBTAINED

LOCAL FREQUENCIES

Ground 121.6 Tower 124.55
ATIS 132.625 Kalispell City 122.8
Sky Ranch / Whitefish / Ferndale 122.9

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Preflight Inspection

CABIN

Documents (ARROW).....ON BOARD
Control Lock.....REMOVE
Ignition Switch.....OFF
Avionics Switch.....OFF
Battery Master Switch.....ON
Fuel Quantity.....CHECK
Wing Flaps.....DOWN
Pitot Heat.....CHECK
Lights.....CHECK
Battery Master Switch.....OFF

LEFT WING

Fuel Sump.....DRAIN / CHECK
Fuel Quantity.. / Cap / Check / Secure
Pitot Tube / Drain.....CHECK
Fuel Vent.....CHECK
Wing Tie-Down... REMOVE AND COIL
Stall Warning Opening.....CHECK
AOA Probe.....CHECK
Leading Edge.....CHECK
Wing Tip / Light.....CHECK
Aileron.....FREE / SECURE
Wing Flap.....SECURE
Main Tire / Brake.....CHECK
Baggage Door.....CLOSED / LOCKED

EMPENNAGE

Vertical Stabilizer.....CHECK
Left Horizontal Stab.....CHECK
Elevator.....FREE / SECURE
Rudder.....FREE / SECURE
Tail Tie-down.....REMOVE
Beacon.....CHECK
Right Horizontal Stab.....CHECK
ELT / VOR Antennas.....CHECK

Right Wing

Wing Flap.....SECURE
Aileron.....FREE / SECURE
Wing Tip / Light.....CHECK
Wing Tie-Down.....REMOVED
Leading Edge.....CHECK
Main Tire / Brake.....CHECK
Fuel Sump.....DRAIN / CHECK
Fuel Quantity /Cap/CHECK/SECURE

NOSE

Windshield.....INSPECT / CLEAN
Engine Oil.....6-8qts (7 min X-Country)
Fuel Strainer.....PULL OUT 3 SEC
Exhaust.....INSPECT / SECURE
Propeller / Spinner.....CHECK
Alternator Belt.....CHECK
Air Filter.....CHECK
Static Port.....CHECK



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BEFORE TAKEOFF

Strobe light.....ON
Mixture.....RICH
Takeoff Procedure.....BRIEFED

NORMAL TAKEOFF

Wing flaps.....UP
Carburetor Heat.....OFF
Power.....FULL
Rotate.....55 KTS
Climb.....VY 73 KTS

SHORT FIELD TAKEOFF

Wing Flaps.....UP
Carburetor Heat.....OFF
Runway.....ALL AVAILABLE
Brakes.....HOLD
Throttle.....FULL
Mixture.....MAX RPM ABOVE 3000'
Brakes.....RELEASE
Rotate.....55 KTS
Climb.....VX 59 KTS to 50' OBSTACLE
Climb.....VY 73 KTS

SOFT FIELD TAKEOFF

Wing Flaps.....10°
Carburetor Heat.....OFF
Yoke.....Full Aft to Keep Nose light
Movement.....CONTINUOUS
Throttle.....FULL
Rotate.....EARLY AS POSSIBLE
Fly in ground effect to VX 59Kt
establish positive rate of Climb.
Flaps.....UP
Climb.....VY 73KTS

CLIMB

Flaps.....UP
Airspeed.....70-80 KTS
CHT'sBELOW 435°F
Trim.....ADJUST

CRUISE

Power.....2350 RPM
Mixture. Lean Until 1st Cylinder Peak
Mixture.....Enrich 100°F
Landing Light.....OFF
Wig-Wag lights.....ON

PRE-LANDING

C---Carb Heat.....ON
G--GAS.....BOTH
U--Undercarriage.....DOWN/FIXED
M--Mixture.....RICH
P---Prop.....FIXED
S---Safety.....Lights, Seatbelts...ON

NORMAL LANDING

Abeam..1700 RPM Flaps 10° 80 KTS
Base.....Flaps 20° 75 KTS
Final.....Flaps 30° 65 KTS

SOFT FIELD LANDING

Abeam..1700RPM Flaps 10° 80 KTS
Base.....Flaps 20° 75 KTS
Final.....Flaps 30° 70 KTS
Throttle....SLIGHT AT TOUCHDOWN
Nose.....HOLD OFF

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AFTER LANDING

Strobe light.....OFF
Wig Wag light.....OFF
Carburetor HeatOFF
Wing Flaps.....IDENTIFIED / UP
Mixture.....LEAN FOR TAXI
Clearance.....OBTAINED

SHUTDOWN / SECURE

Flight Plan.....CLOSED
Lights.....OFF
Avionics Master.....OFF
Mixture.....PULL IDLE CUTOFF
Mags.....OFF
Tach.....Touch engine, gauges Record
HobbsRECORD
Master.....OFF
Control Lock.....INSTALLED
INSTALL SUNSHADES 70 ° +
TIEDOWN AIRCRAFT

FIRES

Engine Fire in Flight

Mixture.....IDLE CUT OFF
Fuel Selector.....OFF
Cabin Heat and Air.....OFF
Airspeed.....100KTS
If not extinguished increase speed

Electrical Fire In Flight

Master Switch.....OFF
All Switches except Ignition.....OFF
Cabin Heat / Air.....CLOSED
Active Fire Extinguisher
LAND AS SOON AS POSSIBLE

ENGINE FAILURES

Take-Off

Throttle.....IDLE
Brakes.....APPLY
Mixture.....IDLE CUT OFF

Immediately After Take-Off

Airspeed.....65 KTS
FlapsAS REQUIRED
LAND STRAIGHT AHEAD
Mixture.....IDLE CUT OFF
Fuel Selector.....OFF
Ignition Switch.....OFF
Doors.....UNLATCHED

During Flight

Airspeed.....65KTS
Fuel Selector.....BOTH
Mixture.....RICH
Carburetor Heat.....ON
Throttle.....AS REQUIRED
Primer.....IN & LOCKED
Ignition Switch.....BOTH
START if Prop has Stopped

LANDING WITH A FLAT

Approach.....NORMAL
Touchdown.....GOOD TIRE FIRST
Hold off flat tire as long as possible
Brakes to maintain Directional
control

