SPEEDS (MPH)

Vso.....61
Vs.....68
Vr.....60
Vx 76
Vy.....85
Vfe…….....115
Vno.....140
Vne.....171
Va (2450 lbs).....127
Va (2200 lbs).....120
Va (1950 lbs).....113
Best Glide.....…….....80
Max. Demon. X-Wind.....17
Approach (Flaps DN).....74
Enroute Climb.....100

PREFLIGHT

Weather..... ...CHECK
Weight & Balance.....COMPLETE
Documents (AROW).....CHECK
Inspection/AD status.....CHECK
Fire Extinguisher.....CHARGED
Hobbs/Tach.....CHECK
Electrical/Radios……..……OFF
Ignition.....OFF
Master.....ON
Fuel Quantity.....CHECK
Turn Coordinator.....AUDIBLE
Flaps……..EXTEND
Lights.....ON/INSPECT
Master…..……OFF

EXTERIOR INSPECTION

Right Wing
Flaps & Aileron…….....CHECK
Leading Edge.....CHECK
Tie Down……..…REMOVE
Fuel Quantity….....CHECK
Fuel Tank Vent…….....CHECK
Fuel Sump……..CHECK
Strut/Tire/Brake….....CHECK
Nose
Windshield/Cowling.....CHECK
Oil Quantity (6-8 qt)…....CHECK
Prop/Spinner…….....CHECK
Air Inlet…….....CHECK
Alternator Belt…….....CHECK
Nose Strut/Tire…….....CHECK
Cowling…….....CHECK
Fuel Sump.….....CHECK
Left Wing
Strut/Tire/Brake.....CHECK
Fuel Sump……..CHECK
Fuel Quantity……..CHECK
Tie Down…….....REMOVE
Pitot Tube…….....CHECK
Static Source……..…...CHECK
Fuel Tank Vent……...CHECK
Stall Warning Vane….....CHECK
Flap & Aileron…….....CHECK
Aft Fuselage & Empennage
Fuselage…….....CHECK
Antennas…….....CHECK
Horizontal Stabilizer….....CHECK
Vertical Stabilizer……....CHECK
Tie Down…….....REMOVE
Baggage Door…….....SECURE

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PRE-ENGINE START

Preflight Inspection.....COMPLETE
Passenger Briefing.....COMPLETE
Seats and Belts.....SECURE

ENGINE START

Parking Brake.....SET
Circuit Breakers.....CHECK IN
Electrical Equipment.....OFF
Fuel Selector……...FULLEST TANK
Carburetor Heat.....COLD
Prime.....3 or 4 TIMES
Throttle.....OPEN 1/4 INCH
Master.....ON
Beacon.....ON
Fuel Pump.....ON
Mixture…….....RICH
Propeller Area……CLEAR
Ignition……..ENGAGE
Throttle……1000 RPM
Oil Pressure……CHECK
Mixture……LEAN for taxi
Fuel Pump.....OFF
Fuel Pressure.....VERIFY
Ammeter.....CHECK

TAXI

Avionics Master.....ON
Radios/Avionics.....ON
Transponder.....STBY
Flaps.....RETRACT
Parking Brake.....RELEASE
Brakes.....TEST
Instruments.....CHECK

RUNUP

Parking Brake.....SET
Seats/Belts.....SECURE
Doors/Windows.....CLOSED
AND LOCKED
Controls.....FREE & CORRECT
Trim……..……..SET
Fuel Quantity.....CHECK
Mixture.....RICH
Fuel Selector....FULLEST TANK
Throttle.....2000 RPM
Oil Pressure/Temp.....CHECK
Mixture.....SET for Altitude
Magnetos.....CHECK
Max drop 175 RPM
Max differential 50 RPM
Fuel Pump.....CHECK ON
Suction.....5” hg +/- 1” hg
Ammeter.....CHECK
Annunciator Panel.....TEST
Flight Instruments.....
CHECK and SET
Throttle.....IDLE
Radios and Avionics.....SET
Brakes.....RELEASE

PRE-TAKEOFF

Fuel Pump.....ON
Fuel Selector....FULLEST TANK
Flaps (as required).....SET
Transponder.....ALT
Lights.....AS REQUIRED
Emerg. Procedures……REVIEW

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NORMAL TAKEOFF

Throttle.....Full OPEN
Engine Instruments.....CHECK
Rotate.....60-65 MPH
Climb.....85 MPH

SHORT-FIELD TAKEOFF

Flaps.....25°
Carburetor Heat……OFF
Brakes.....APPLY
Throttle.....Full OPEN
Engine Instruments.....CHECK
Brakes.....RELEASE
Rotate.....55-60 MPH
Climb.....74 MPH
until clear of obstacle
Climb.....85 MPH
Flaps.....RETRACT

SOFT FIELD TAKEOFF (OBSTACLE CLEARANCE)

Flaps.....25°
Carburetor Heat…….OFF
Elevator.....Full AFT
Throttle.....Slowly Full OPEN
Liftoff.....Slowest Possible Airspeed
Accelerate while in ground effect
Climb.....74 MPH
Until clear of obstacle
Climb.....85 MPH
Flaps.....RETRACT

CRUISE

Throttle.....SET
Mixture.....SET
Fuel Selector....DESIRED TANK
Fuel Pump.....OFF
Fuel Pressure.....VERIFY
Engine Gauges.....CHECK
Landing Light.....OFF
Trim.....SET
Heading Indicator.....SET

DESCENT

Power.....AS DESIRED
Carburetor Heat.....AS REQD.
Mixture.....ADJUST
Altimeter.....SET
Fuel Selector....FULLEST TANK

BEFORE LANDING

Seat Backs.....UPRIGHT
Seats/Belts.....SECURE
Fuel Selector....FULLEST TANK
Fuel Pump.....ON
Fuel Pressure.....VERIFY
Mixture.....SET
Landing Light.....AS REQD.

NORMAL LANDING?

Flaps.....AS DESIRED
Airspeed.....74 MPH (Flaps DN)

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SOFT FIELD LANDING

Fuel Pump.....ON
Airspeed…….....85 MPH FINAL
Flaps……..……...Down (40°)
Touchdown…….....MAINS first
Add power to keep nosewheel off
the ground, hold elevator full aft
Flaps……...RETRACT
Brakes.....MINIMAL

SHORT FIELD LANDING?

Fuel Pump.....ON
Airspeed…….....76 MPH FINAL
Flaps……..……...Down (40°)
Power……...……..…IDLE
Touchdown…….....MAINS first
Brakes……...……..APPLY
Flaps…….....RETRACT
Elevator.....FULL AFT

AFTER LANDING

Flaps.....RETRACT
Transponder.....STBY
Landing Light.....OFF
Strobes.....OFF
Mixture.....LEAN for taxi
Fuel Pump.....OFF
Fuel Pressure.....VERIFY

GO-AROUND

Throttle……FULL OPEN
Climb…….....85 MPH
Flaps……RETRACT to 25°

SHUTDOWN

Throttle.....IDLE
Electrical Equipment.....OFF
Avionics Master.....OFF
Mixture.....IDLE cutoff
Ignition.....OFF
Master.....OFF
Beacon.....OFF
Hobbs/Flight Ticket.....RECORD
Trash.....REMOVE
Doors/Windows.....LOCKED
Tie-Downs.....SECURE
Flight Plan.....CLOSE

HOT START

Throttle.....OPEN ½ INCH
Master.....ON
Fuel Pump.....OFF
Mixture.....IDLE CUT OFF
Ignition.....ENGAGE
*When engine fires, advance
mixture and retard throttle*

FLOODED START

Throttle.....FULL OPEN
Master.....ON
Fuel Pump.....OFF
Mixture.....IDLE CUTOFF
Starter.....ENGAGE
*When engine fires, advance
mixture and retard throttle*

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EMERGENCY PROCEDURES
ENGINE FAILURE DURING TAKEOFF ROLL

Throttle……..IDLE
Brakes…….....APPLY
Flaps……RETRACT
Mixture……IDLE CUTOFF
Ignition……..……OFF
Master……..…….OFF

ENGINE FAILURE AFTER TAKEOFF (RESTART)

Airspeed…….....80 MPH
Fuel Selector.....OPPOSITE TANK
Mixture…….….....FULL RICH
Carburetor Heat.....ON

ENGINE FAILURE DURING FLIGHT (RESTART)

Airspeed…….…….....80 MPH
Landing Site.....LOCATE
Fuel Selector.....FULLEST TANK
Fuel Pump….....…….ON
Carburetor Heat……ON
Mixture…….....FULL RICH
Ignition…….....L,R, BOTH
Primer……..IN and LOCKED
Engine Gauges.....CHECK
Throttle/Mixture...VARIOUS settings

IF POWER IS RESTORED

Carburetor Heat.....OFF
Fuel Pump.....OFF

IF POWER IS NOT RESTOREDPREPARE FOR FORCED LANDING

EMERGENCY PROCEDURES
EMERGENCY LANDING WITHOUT POWER

Seat Backs……...UPRIGHT
Seats/Belts…….....SECURE
Airspeed…….....80 MPH
Mixture…….....IDLE CUTOFF
Ignition…….....……OFF
Fuel Selector.....….....……OFF
Master…….....…OFF
Flaps…….....AS REQUIRED
Doors…….....…UNLATCH
Touchdown….....TAIL LOW

SPIN RECOVERY

Throttle.....IDLE
Ailerons.....NEUTRALIZE
Rudder.....FULL OPPOSITE DIRECTION OF SPIN
Yoke.....BRISK FORWARD
Controls.....HOLD UNTIL ROTATION STOPS
Recover..... AS ROTATION STOPS

ENGINE FIRE IN FLIGHT

Fuel Selector.....OFF
Throttle.....CLOSED
Mixture.....IDLE CUTOFF
Ignition……..…….OFF
Fuel Pump.....OFF
Heater/Defroster/Air.....OFF
Airspeed…….....INCREASE
Power OFF landing....EXECUTE

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EMERGENCY PROCEDURES
FIRE DURING ENGINE START

Cranking……..…CONTINUE

IF ENGINE STARTS

Throttle.....1800 RPM
Mixture…….....IDLE CUTOFF
Fuel Pump.....OFF
Fuel Selector.....OFF
Master……..…….OFF
Ignition……..…OFF

SHUTDOWN AND INSPECT

IF ENGINE FAILS TO START

Cranking.....CONTINUE
Fire Extinguisher.....OBTAIN
Master.....OFF
Ignition.....OFF

ABANDON IF FIRE CONTINUES

ELECTRICAL FIRE

Master…….……...OFF
Vents.....……..OPEN
Heat/Cabin Air.....OFF
Fire Extinguisher…….ACTIVATE
If fire is out and electrical is necessary for flight
Master…….....ON
Circuit Breakers……..CHECK *do not reset!*
Radios…….....OFF
Radios……ON, one at a time

EMERGENCY PROCEDURES
EXCESSIVE LOAD ON ALTERNATOR GAUGE

Alternator.....ON
Battery Switch.....OFF
Non-Essential Equip.....OFF

IF LOADS ARE NOT REDUCED

Alternator.....OFF
Battery Switch.....AS REQD.
Terminate flight as soon as practical

ALTERNATOR FAILURE

Electrical Equipment.....OFF
Alternator Switch…….....OFF
Circuit Breakers…….. CHECK/RESET
Alternator Switch.....ON
Alternator Gauge.....CHECK
Electrical Equipment.....ON

IF AMMETER RETURNS TO ZERO

Alternator.....OFF
Non-Essential Equip……....OFF
Flight……....TERMINATE

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