

ENGINE START

BEFORE ENGINE START

FlapsUP
Passengers BRIEF
Seatbelts SECURED
Circuit BreakersIN
Avionics OFF
Carb Heat..... OFF
Battery/Alternator..... OFF
Strobes..... ON
Beacon ON
Fuel Selector SET
Parking Brake..... SELECT
Tow Brakes HOLD

END

ENGINE START

Mixture..... RICH
Carb Heat..... VERIFY OFF
Primer 3 TIMES
Throttle..... OPEN 3 TIMES
Throttle..... 1/8th INCH OPEN
Battery/Alternator.....ON
Fuel Pump.....ON
Strobes/Beacon VERIFY ON
Magnetos..... BOTH
Propeller Area..... CLEAR
Starter..... ENGAGE
Throttle..... 1000 rpm
Cockpit Flow PERFORM

Engine Indications GREEN
Ammeter ~30 amps
Fuel Pump OFF
Mixture..... LEAN

END

TAXI

BEFORE TAXI

Avionics/EFIS ON
ATIS/AWOS (123.75) OBTAIN
Altimeter SET
Clearance (119.55) OBTAIN
TransponderSET + VERIFY ALT

MOVE WITHIN LOS OF TOWER

Ground Clearance (121.9) OBTAIN
Taxi Route..... BRIEF

END

TAXI

Brakes..... TEST
Steering TEST
Turn Indicator..... WITH TURN
Slip Indicator OPPOSITE OF TURN
Heading WITH COMPASS

RUN UP – HOLD SHORT

ENGINE RUNUP

Parking BrakeSET
Fuel Selector FULLEST TANK
Flight Controls..... FREE/CORRECT
Mixture RICH
Fuel Pump ON
Throttle1700 rpm
Magnetos L/R (125 drop/50 diff)
Carb Heat ON, VERIFY DROP
Ammeter~30 amps
Throttle IDLE
Carb Heat OFF
Throttle1000 rpm

END

BEFORE TAKEOFF

Departure..... BRIEF
ENG FAIL ON TAKEOFF BRIEF
Doors/WindowsCLOSED
Seatbelts SECURED
Flaps AS REQUIRED
Mixture VERIFY RICH
Fuel PumpVERIFY ON
Fuel Selector.....SAFEST TANK
Trim SET TAKEOFF
Transponder VERIFY ALT
Tower Clearance (125.97)OBTAIN
Landing Light ON

END

V SPEEDS

$V_R = 55$ kts $V_X = 65$ kts $V_Y = 75$ kts $V_{S0} = 50$ kts $V_{S1} = 58$ kts $V_A = 112$ kts $V_{BG} = 70$ kts

Best Glide: 70 kts Va: 112 kts

TAKEOFF – CLIMB - CRUISE

TAKEOFF

Selected Runway **VERIFY**
Throttle..... FULL POWER
Engine InstrumentsGREEN
AirspeedALIVE
Rotate 55 kts
Climb.....75 kts (V_Y)
Flaps RETRACT

END

CLIMB (1,000 ft)

Throttle..... AS REQUIRED
Airspeed 85 kts
Landing Light OFF
Engine InstrumentsGREEN
Mixture LEAN ABOVE 3000 ft MSL

END

CRUISE

Throttle..... AS REQUIRED
Fuel SelectorFULLEST TANK
Fuel Pump..... OFF
Mixture LEAN ABOVE 3000 ft MSL
Engine InstrumentsGREEN

END

Best Glide: 70 kts Va: 112 kts

DESCENT - LANDING

DESCENT CHECKLIST

Approach..... BRIEF
Fuel Pump **ON**
Throttle AS REQUIRED
Mixture..... FULL BELOW 3000 ft MSL
Seat Belts..... SECURED
ATIS/AWOS..... OBTAIN
Altimeter SET

END

BEFORE LANDING

Fuel Pump **VERIFY ON**
Mixture **VERIFY RICH**
Landing Lights..... **ON**
Flaps AS REQUIRED
Vref..... 70-75 kts

END

AFTER LANDING

Flaps UP
Carb HeatVERIFY OFF
Mixture **LEAN**
Fuel Pump **OFF**
Landing Lights..... **OFF**
Ground Clearance (121.9) OBTAIN
Taxi Route..... BRIEF

END

ENGINE SHUTDOWN

ENGINE SHUTDOWN

Parking BrakeSET
Tow Brakes..... HOLD
Avionics/EFIS..... OFF
Fuel Pump VERIFY OFF
Throttle1000 rom
Mixture IDLE CUT-OFF
Magnetos OFF
Battery/Alternator OFF
Keys..... ON DASHBOARD

END



DR. TIZI

PA28-180

REVISED 10 DEC 2023

FOR SITUATION AWARENESS ONLY

V SPEEDS

V_R = 55 kts

V_X = 65 kts

V_Y = 75 kts

V_{S0} = 50 kts

V_{S1} = 58 kts

V_A = 112 kts

V_{BG} = 70 kts