

PREFLIGHT INSPECTION**CABIN**

Aircraft Documents (A.R.R.O.W.)..... ON BOARD
Control Wheel Lock..... REMOVE
Ignition Switch..... OFF-KEY REMOVED
Master Switch..... ON
Flaps..... FULL DOWN
Fuel Quantity Indicators..... CHECKED
Master Switch..... OFF
Fuel Selector Valve..... BOTH

EMPENNAGE

Empennage Surface..... CHECK
ELT Antenna..... CHECK
Rudder Gust Lock..... REMOVE
Tail Tie Down..... DISCONNECT
Nav and Comm Antennas..... CHECK
Horizontal Stabilizer..... SECURE
Vertical Stabilizer..... SECURE
Lights..... CHECK
Rudder..... CHECK
Elevator..... CHECK

RIGHT WING

Flap..... FREE & SECURE
Aileron..... FREE & SECURE
Lights & Wingtip..... CHECK
Leading Edge..... CHECK
Wing Tie Down..... DISCONNECT
Main Wheel Tire..... CHECK
Fuel Tank Sump Drain..... DRAIN & CHECK
Fuel Quantity..... VISUALLY CHECK
Fuel Filler Cap..... SECURE

NOSE

Engine Oil (min 6 qts - max 8 qts) CHECK & CAP SECURE
 Fuel Strainer Drain DRAIN & CHECK
 Prop & Spinner CHECK
 Air Filter CHECK
 Landing and Taxi Light CHECK
 Nose Strut & Tire CHECK
 Static Port CHECK

LEFT WING

Main Wheel Tire CHECK
 Fuel Tank Sump Drain DRAIN & CHECK
 Fuel Quantity VISUALLY CHECK
 Fuel Filler Cap SECURE
 Pitot Tube COVER REMOVE & CLEAR
 Stall Warning CLEAR
 Fuel Tank Vent CLEAR
 Wing Tie Down DISCONNECT
 Leading Edge CHECK
 Lights & Wingtip CHECK
 Aileron FREE & SECURE
 Flap FREE & SECURE

AIRSPEDS FOR NORMAL OPERATION

Takeoff:

Normal Climb - 70 - 80 KIAS

Maximum Performance Takeoff, Speed At 50' - 59 KIAS

Climb, Flaps Up:

Normal, Sea Level - 80 - 90 KIAS

Normal, 10,000 Feet - 70 - 80 KIAS

V_y Best Rate of Climb, Sea Level - 78 KIAS

V_y Best Rate of Climb, 10,000 Feet - 68 KIAS

V_x Best Angle of Climb, Sea Level - 64 KIAS

V_x Best Angle of Climb, 10,000 Feet - 62 KIAS

Landing Approach:

Normal Approach, Flaps Up - 60-70 KIAS

Normal Approach, Flaps 40° - 55-65 KIAS

Short Field Approach, Flaps 40° - 60 KIAS

Balked Landing Transition to Maximum Power, Flaps 20° - 55 KIAS

Maximum Recommended Turbulent Air Penetration Speed:

2300 lbs - 97 KIAS

1950 lbs - 89 KIAS

1600 lbs - 80 KIAS

Max Demonstrated Crosswind Velocity Takeoff & Landing - 15 kts

BEFORE STARTING ENGINE

Aircraft Preflight. COMPLETE
 Control Lock. REMOVED
 Passenger. BRIEF
 Seats, Seat Belts & Shoulder Harnesses. ADJUST & LOCK
 Fuel Selector Valve. BOTH
 Parking Brake. SET
 Circuit Breakers. IN
 Panel Switches. AS REQUIRED
 Avionics. OFF
 Clock. SET
 EFB Preflight. COMPLETE

ENGINE START

Cabin Doors. CLOSE
 Nav Lights. AS REQUIRED
 Mixture. RICH
 Carb Heat. COLD
 Master Switch. ON
 Beacon. ON
 Prime. AS REQUIRED
 Throttle. OPEN 1/8"
 Prop Area. CLEAR
 Engine. START
 Oil Pressure. CHECK

BEFORE TAXI

Oil Pressure & Engine Instruments. CHECKED
 Avionics. ON
 Brakes. CHECKED
 Flaps. UP
 Trim. SET
 Radios. ON & SET
 GPS/VOR Selector Switch. CHECK
 Transponder. ON ALT
 EFB. CHECKED & SET

RUN-UP

Cabin Doors. CLOSE
 Parking Brake. SET
 Flight Controls. FREE & CORRECT
 Flight Instruments. CHECK
 Fuel Selector Valve. BOTH
 Mixture. RICH
 Throttle. 1700 RPM
 Mags (125 RPM max drop and less than 50 RPM diff.). CHECK
 Carb Heat. CHECK
 Engine Instruments. CHECK
 Ammeter. CHECK
 Suction. CHECK
 Throttle. IDLE & FRICTION ADJUST
 Parking Brake. RELEASE
 Taxi Light. AS REQUIRED

TAKEOFF

Flaps. UP
 Mixture. RICH
 Carb Heat. COLD
 Landing & Taxi Lights. AS REQUIRED
 Pitot Heat. AS REQUIRED
 Heading. CHECKED

NORMAL

Throttle. FULL OPEN
 Elevator. LIFT NOSEWHEEL AT 55 KIAS
 Climb Speed. 70 - 80 KIAS

MAXIMUM PERFORMANCE

Brakes. APPLY
 Throttle. FULL OPEN
 Brakes. RELEASE
 Elevator. SLIGHTLY TAIL LOW
 Climb Speed. 59 KIAS UNTIL CLEAR OF OBSTACLES

AFTER TAKEOFF

Climb Speed..... 70 - 90 KIAS
 Landing & Taxi Lights..... OFF

CRUISE

Power..... SET
 Mixture..... SET
 Fuel Quantity..... MONITOR

APPROACH

(* items for instrument operations only)

*EFB..... CONFIGURE
 *Approach..... REVIEW
 *Radios..... SET/TUNE AND IDENTIFY
 *GPS/VOR Selector Switch..... AS REQUIRED
 Fuel Selector Valve..... BOTH
 Fuel Quantity..... CHECK
 Mixture..... RICH

BEFORE LANDING

Seat Belts & Shoulder Harnesses..... FASTEN
 Landing Light..... AS REQUIRED
 Mixture..... FULL RICH
 Carb Heat..... ON
 Flaps..... AS REQUIRED

GO AROUND/MISSED APPROACH

Power..... SET TO CLIMB
 Flaps..... REDUCE
 Landing & Taxi Lights..... OFF
 Flaps..... UP

AFTER LANDING

Landing Light..... OFF
Ice Protection..... OFF
Mixture..... FULL RICH
EFB..... AS REQUIRED
Flaps..... UP
Trim..... RESET

SHUTDOWN

Engine..... IDLE AT 1000 RPM
Taxi Light..... OFF
Avionics..... OFF
Mags..... GROUND TEST
Mixture..... IDLE CUTOFF
Mags..... OFF
Beacon & Nav Lights..... OFF
Master Switch..... OFF
Control Lock..... INSTALLED
Baggage Compartment..... CHECKED