

CESSNA N9924B

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BEFORE STARTING ENGINE

Preflight inspection COMPLETE
Passenger Briefing COMPLETE
Seats, Seat belts, Shoulder Harnesses ADJUST & LOCK
Brakes TEST & SET
Avionics Master Switch OFF
Circuit Breakers CHECK
Electrical Equipment OFF
Stand-by Vacuum System OFF
Landing Gear lever DOWN
Cowl Flaps OPEN

STARTING ENGINE

Carburetor Heat COLD
Propeller HIGH RPM
Mixture RICH
Propeller Area "CLEAR"
Master Switch ON
Primer AS REQUIRED
Throttle-Cold PUMP ONCE OR TWICE LEAVE ¼" OPEN
Throttle-Hot TURN AUX FUEL PUMP ON DURING START
Ignition Switch START
Oil pressure CHECK
Avionic Master Switch ON
Flashing Beacon ON
Nav. Lights (Night flight only) ON

Before Takeoff

Parking Brake SET
Seats, seat belts, shoulder harnesses SECURE
Cabin Doors CLOSED & LOCKED
Flight Controls FREE & CORRECT
Fuel Selector Valve BOTH
Fuel Quantity CHECK
Gear Warning TEST
Aux. Fuel Pump ON (CHECK FOR FUEL PRESSURE RISE)
Aux. Fuel Pump OFF
Mixture RICH (Below 3000' MSL)
Throttle 1800 RPM
 a. Mags CHECK (150/50 MAX DROP)
 b. Carburetor Heat CHECK (RPM drop)
 c. Propeller CYCLE-RETURN TO FULL
 d. Suction Gage CHECK (GREEN)
 e. Engine Instruments CHECK
 f. Ammeter CHECK
Throttle 1000 RPM or less
Throttle Friction Lock Adjust
Elevator Trim SET FOR TAKEOFF
Rudder Trim SET FOR TAKEOFF
Strobe Lights ON as needed
Flight Instruments CHECK & SET
Radios & Avionics SET
Autopilot OFF
Wing Flaps SET for takeoff
Parking Brake RELEASE

Normal Takeoff

Wing Flaps 0°
Carburetor Heat COLD
Throttle FULL (2700 RPM)
Mixture RICH (lean above 3000' MSL)
Elevator Control Raise nose 55 KIAS
Climb 70 – 80 KIAS
Brakes MOMENTARILY APPLY ONCE AIRBORNE
Landing Gear RETRACT IN CLIMB OUT

Short Field Takeoff

Wing Flaps 0° (10° for short roll)
Carburetor Heat COLD
Brakes APPLY
Throttle FULL (2700 RPM)
Mixture RICH (lean above 3000' MSL)
Brakes RELEASE
Elevator Control MAINTAIN SLIGHT TAIL LOW
Climb 63 KIAS UNTIL OBSTACLES CLEARED
Brakes MOMENTARILY APPLY ONCE AIRBORNE
Landing Gear RETRACT IN CLIMB OUT

Normal Climb

Airspeed 85-95 KIAS
Throttle 25" MP
Propeller 2500 RPM
Fuel BOTH
Mixture FULL RICH (Lean above 3000' MSL)
Cowl Flaps FULL OPEN

Maximum Performance Climb

Airspeed 84 KIAS @ Sea Level
..... 77 KIAS @ 10,000 FT
Throttle Full-2700 RPM
Fuel BOTH
Mixture FULL RICH (Lean above 3000 FT)
Cowl Flaps FULL OPEN

Cruise

Throttle 15-25" HG
Propeller 2100-2700 RPM
Elevator & Rudder Trim ADJUST
Mixture LEAN as required
Cowl Flaps CLOSE

Descent

Fuel BOTH
Throttle As Desired
Propeller As Desired
Mixture Enrich as Required
Carburetor Heat FULL (as required)
Cowl Flaps CLOSE
Wing Flaps 0-10° Below 130 KIAS
..... 10-30° Below 100 KIAS
Landing Gear EXTEND BELOW 140 KIAS

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Before Landing

Seats, Seat belts, Shoulder Harnesses SECURE
 Fuel BOTH
 Landing Gear DOWN (3 GREEN & Visual)
 Mixture RICH
 Propeller HIGH RPM
 Carb Heat ON
 Autopilot OFF

Normal Landing

Airspeed 70-80 KIAS (Flaps Up)
 Wing Flaps 0-10° Below 130 KIAS
 10-30° Below 100 KIAS
 Airspeed 60-70 KIAS
 Trim ADJUST
 Touchdown MAIN WHEELS FIRST
 Landing Roll Lower Nose Wheel Gently
 Braking Minimum Required

Short Field Landing

Airspeed 70-80 KIAS
 Wing Flaps 30° (Below 100 KIAS)
 Airspeed 63 KIAS
 Trim Adjust
 Throttle Reduce to Idle as obstacle is cleared
 Touchdown Main Wheels first
 Brakes APPLY HEAVILY
 Wing Flaps RETRACT

Balked Landing

Throttle FULL
 Propeller FULL (2700 RPM)
 Carb Heat COLD
 Wing Flaps Retract to 20°
 Climb speed 55 KIAS
 Wing Flaps Retract slowly after reaching 65 KIAS
 Cowl Flaps OPEN

After Landing

Carb Heat COLD
 Wing Flaps UP
 Cowl Flaps OPEN

Securing Airplane

Parking Brake SET
 Throttle 1000 RPM
 Avionics Power Switch OFF
 Electrical Equipment OFF
 Mixture IDLE CUTOFF
 Throttle CLOSE AS RPM Drops
 Ignition OFF
 Master Switch OFF
 Control Lock Install
 Cowl Flaps OPEN

Engine Failure During Takeoff Run

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

Engine Failure Immediately After Takeoff

Airspeed 70 KIAS (Flaps Up)
 65 KIAS (Flaps Down)
 Mixture IDLE CUT-OFF
 Fuel Selector Valve OFF
 Wing Flaps AS REQUIRED (30° Recommended)
 Master Switch OFF

Engine Failure During Flight

Airspeed 75 KIAS
 Carburetor Heat ON
 Fuel Selector Valve BOTH
 Mixture RICH
 Aux. Fuel Pump ON (if fuel pressure below 0.5PSI)
 Ignition Switch BOTH –START if propeller stopped
 Primer IN & LOCKED

Emergency Landing w/o Power

Airspeed 75 KIAS (Flaps Up)
 65 KIAS (Flaps Down)
 Mixture IDLE CUT OFF
 Fuel Selector Valve OFF
 Ignition Switch OFF
 Landing Gear DOWN (UP for rough terrain)
 Wing Flaps As Required (30° Recommended)
 Door UNLATCHED PRIOR TO TOUCHDOWN
 Master Switch OFF (WHEN LANDING ASSURED)

V-Speeds

Best Glide	1850 lbs.	61 KIAS
	2260 lbs.	67 KIAS
	2650 lbs.	73 KIAS

V _A	1850 lbs.	89 KIAS
	2250 lbs.	98 KIAS
	2650 lbs.	106 KIAS

V _{SO}	42 KIAS	V _{FE}	100 KIAS < 10°	V _{NE}	164
V _S	50 KIAS	V _{FE}	130 KIAS 10°		Downwind
V _R	55 KIAS	V _{LO}	140 KIAS		Base
V _x	67-68 KIAS	V _{LE}	140 KIAS		Final
V _y	84-77 KIAS	V _{NO}	145 KIAS		Short