

# N8971M – NORMAL CHECKLIST

Vx 71 Vy 94

## BEFORE START

Exterior	COMPLETE
Seats, Belts	ADJUST & LOCK
Passenger Brief	COMPLETE
Cell Phones	OFF
Fuel selector valve	BOTH
Cowl Flaps	OPEN
Avionics	OFF
Electrical Equip. (Lights)	OFF
Beacon	ON
Circuit Breakers	CHECK
Auto Pilot	OFF

## STARTING ENGINE

Brakes	TEST & HOLD
Mixture	IDLE CUT OFF
Throttle	OPEN ¼"
Propeller	HIGH RPM
Master Switch	ON
Propeller Area	CLEAR
<b>Cold start</b>	
Auxiliary Fuel Pump	ON
Mixture	FULL RICH (until stable fuel flow is indicated 3-5 sec)
Mixture	IDLE CUT OFF
Auxiliary Fuel Pump	OFF
Ignition Switch	START
Mixture	SMOOTHLY FULL RICH
Throttle (warm up)	800 RPM
<b>Hot start</b>	
Ignition Switch	START
Mixture	SMOOTHLY FULL RICH
Oil Pressure	CHECK
Ammeter	CHECK
Mixture	LEAN IF REQUIRED
Avionics	ON
Transponder	SBY/1200
Weather	OBTAIN
GPS	UPDATE
Flaps	UP
Heading Indicator	SET

## TAXI CHECK

Transponder	ALT
Brakes	TEST
Compass	CHECK (while moving)
Attitude Indicator	CHECK (while moving)
Heading Indicator	CHECK (while moving)
Turn Coordinator	CHECK (while moving)

## BEFORE TAKEOFF

Flight Controls	FREE & CORRECT
Elevator Trim	TAKEOFF
Rudder Trim	SET

**\*\*CONTINUED\*\***

## \* CONTINUED FROM LAST COLUMN\*

Brakes	SET
Throttle	1,800 RPM
Engine Instruments	CHECK
Ammeter	CHECK
Suction	CHECK
Magnetos	CHECK (Drop not to exceed 150 RPM's and 50 differential)
Alternate Static	PULL ON/PUSH OFF
Propeller	CYCLE (3 times, Oil Press, M.P., RPM)
Throttle	IDLE CHECK
Throttle	1,000 RPM
Flight Instruments	CHECK/SET
Comm Radio's	SET
Nav Radio's	SET
GPS	SET
Autopilot	CHECK
Throttle Friction Lock	ADJUST
Flight Plan	OPEN
Doors & Windows	LATCHED
Flaps	Set 10°
Propeller	HIGH RPM
Time Off	LOG
Landing Light	ON
Transponder	PROPER CODE
Mixture	Best Power or RICH

## NORMAL TAKEOFF

**\*Add ½ Gust Factor to all speeds\***

Compass/Runway Heading	VERIFY
Throttle	FULL
Rotate	65 MPH
Climb	75-85 MPH
Brakes (no remaining rwy)	TAP
Gear (no remaining rwy)	UP
Flaps (IAS > 80MPH)	UP
Normal Climb	100-120 MPH

## SHORT FIELD TAKEOFF

Flaps	SET 10°
Runway	USE MAX AVAILABLE
Brakes	HOLD
Throttle	FULL OPEN
Engine Instruments	CHECK
Brakes	RELEASE
Yoke	SLIGHT FORWARD PRESSURE
Rotate	60 MPH
Climb Out at Vx	60-71 MPH
Obstacle Clear	ACCELERATE TO Vy -94 MPH
Brakes (no remaining rwy)	TAP
Gear (after obstacles cleared)	RETRACT

**\*\*CONTINUED\*\***

## \* CONTINUED FROM LAST COLUMN\*

Flaps (after reaching 80 MPH)	UP
Normal Climb	ACCEL. 85 MPH
Cruise Climb	100-120 MPH

## SOFT FIELD TAKEOFF

Flaps	SET 10°
Yoke	AFT
Brakes	AVOID USING
Throttle	FULL
Lift Off ASAP	ACCELERATE IN GROUND EFFECT TO 60-71 MPH
Climb Out at Vx	60-71MPH
Obstacle Clear	ACCEL. Vy 71 MPH
FLAPS (> 80 MPH)	RETRACT
Normal Climb	ACCEL. 85 MPH
Cruise Climb	100-120 MPH

## CLIMB CHECKLIST

Airspeed	100-120 MPH
Manifold Pressure	25 IN HG
RPM	2,500 RPM
Landing Light	OFF

## CRUISE

Power	2100-2500 RPM
Trim	SET
Cowl Flaps	CLOSED
Mixture	LEAN
Heading Indicator	CHECK

## DESCENT

Passenger Brief	COMPLETE
Power	AS DESIRED
Mixture	ENRICHEN SLOWLY
Trim	SET
Flaps	0°-10° below 150 MPH 10°-30° below 110 MPH

## BEFORE LANDING -G.L.U.M.P.S.

**\*Add ½ Gust Factor to all speeds\***

### NORMAL

Fuel Selector	ON/BOTH
Landing Light	ON
Mixture	RICH
Seat Belts	SECURE
Approach	(90 MPH) FLAPS 10° (80 MPH) FLAPS 20° (75 MPH) FLAPS 30°

### SHORT FIELD

Flaps	FULL
Airspeed	72 MPH (+½ Gust Factor) <b>**CONTINUED**</b>

## \*CONTINUED FROM LAST COLUMN\*

Approach	STEEP DESCENT ANGLE to Clear 50' Obstacle)
Touchdown	AVOID FLOATING
Brakes	APPLY HEAVILY
Flaps	RETRACT
Elevator	FULL BACK PRESSURE

## SOFT FIELD

Flaps	FULL
Airspeed	72 MPH (+½ Gust Factor)
Approach	STEEP DESCENT ANGLE (Clear 50' Obstacle)
Touchdown	NOSE HIGH
Brakes	AVOID USING

## AFTER LANDING

Flaps	RETRACT
Cowl Flaps	OPEN
Mixture	LEAN IF REQUIRED
Landing Light	OFF
Trim	SET FOR TAKEOFF

## ENGINE SHUT DOWN

Flight Plan	CLOSE
Throttle	1,000 RPM
Transponder	1200/STANDBY
Avionics	OFF
Lights - (Beacon On)	OFF
Mixture	IDLE/CUT OFF
Ignition Key	OFF & OUT
Master	OFF

## SECURING AIRCRAFT

Tach/Hobbs	NOTE
Control Lock	INSTALL
Cabin Vents	CLOSE
Fuel Vent Covers	INSTALL
Windows	CLOSE
Sun Visors	INSTALL
Pitot Cover	INSTALL
Tie Down	SECURE
Personal Items & Trash	REMOVE



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