

N172DP – NORMAL CHECKLIST

BEFORE START

Exterior	COMPLETE
Seats, Belts	ADJUST & LOCK
Passenger Brief	COMPLETE
Cell Phones	OFF
Fuel Shutoff Valve	BOTH
Cowl Flaps	OPEN
Avionics	OFF
Electrical Equip. (Lights)	OFF
Beacon	ON
Landing Gear Lever	DOWN
Circuit Breakers	CHECK

CONTINUED FROM LAST COLUMN

Throttle	1800RPM's
Engine Instruments	CHECK
Ammeter	CHECK
Suction	CHECK
Magnetos	CHECK (Drop not to exceed 150 RPM's and 50 differential)
Propeller	CYCLE
Alternate Static Source	ON (Note jump in VSI and Altimeter)

STARTING ENGINE

Brakes	TEST & HOLD
Mixture	RICH
Propeller	HIGH
Carburetor Heat	COLD/OFF
Prime	(by pumping throttle)
	COLD - One (1) Full Prime
	WARM - HALF (½) Prime
	HOT - NO PRIME.fuel pump on
Throttle	OPEN ¼"
Master Switch	ON
Land Gear Light	GREEN
Auxiliary Fuel Pump	ON (Note Rise)

Alternate Static Source	OFF
Carb Heat	ON-Check RPM DROP
Throttle	IDLE CHECK
Carburetor Heat	OFF
Throttle	1000 RPM's
Mixture	LEAN
Flight Instruments	CHECK/SET
Comm Radio's	SET
Nav Radio's	SET
Landing Light	ON
Transponder	ALT
Mixture	RICH
Doors & Windows	LATCHED
Time Off	LOG

Auxiliary Fuel Pump	OFF
Propeller Area	CLEAR
Ignition Switch	START
Oil Pressure	CHECK
Ammeter	CHECK
Mixture	LEAN IF REQUIRED
Avionics	ON
Flaps	UP
Transponder	STANDBY/1200
GPS	SET
Weather	OBTAIN
Radio	CHECK
Heading Indicator	SET

NORMAL TAKEOFF

Flaps	Set 0°
Compass and Runway Heading	VERIFY
Throttle	FULL
Rotate	55 KIAS
Climb	85-95 KIAS

SHORT FIELD TAKEOFF

Flaps	SET 0°
Runway	USE MAX AVAILABLE
Brakes	HOLD
Throttle	FULL OPEN
Engine Instruments	CHECK
Brakes	RELEASE
Yoke	SLIGHT FORWARD
	PRESSURE
Rotate	55 KIAS
Climb Out at Vx	63 KIAS
Obstacle Clear	ACCELERATE

TAXI CHECK

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

Normal Climb	ACCELERATE to 85-95 KIAS
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BEFORE TAKEOFF

Flight Controls	FREE & CORRECT
Elevator Trim	TAKEOFF
Rudder Trim	NEUTRAL
Fuel Shutoff Valve	BOTH
Brakes	SET

****CONTINUED****

Vx 59-63

SOFT FIELD TAKEOFF

Flaps	SET 10°
Yoke	AFT
Brakes	AVOID USING
Throttle	FULL
Light Off ASAP	ACCELERATE
	IN GROUND EFFECT
	TO 59 KIAS
Climb Out at Vx	59-63 KIAS
Obstacle Clear	ACCELERATE
	TO Vy – 77-84 KIAS

Flaps	RETRACT
Normal Climb	ACCELERATE
	TO 85-95 KTS

CLIMB

Landing Light	OFF
Manifold Pressure	25"
Propeller	2500 RPM
Airspeed	85 – 95 KIAS
Flight Plan	OPEN

CRUISE

Manifold	15"-25"
Prop	2100-2500 RPM
Trim	SET
Landing Light	OFF
Cowl Flaps	CLOSED
Mixture	LEAN
Heading Indicator	CHECK

DESCENT

Passenger Brief	COMPLETE
Fuel Selector	BOTH
Carburetor Heat	IF REQUIRED
Manifold Pressure	MONITOR
Mixture	ENRICHEN SLOWLY
Trim	SET
Cowl Flaps	CLOSED

BEFORE LANDING – C.-G.L.U.M.P.S.

NORMAL LANDING

Carburetor Heat	ON
Fuel Selector	ON BOTH
Landing Light	ON
Gear	DOWN below 140 KIAS
Mixture	RICH
Propeller	HIGH RPM
Seat Belts	SECURE
Approach	FLAPS 0° to 40° (IAS 75-60 KTS)

Vy 77-84

SHORT FIELD LANDING

Flaps on final	FULL
Airspeed	63 KIAS (+½ Gust Factor)
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	63 KIAS (+½ Gust Factor)
Approach	STEEP DESCENT ANGLE (Clear 50' Obstacle)
Touchdown	NOSE HIGH
Carburetor Heat	OFF
Brakes	AVOID USING

AFTER LANDING

Flaps	RETRACT
Mixture	LEAN IF REQUIRED
Carburetor Heat	OFF
Cowl Flaps	OPEN
Transponder	1200/STANDBY
Landing Light	OFF
Trim	SET FOR TAKEOFF

ENGINE SHUT DOWN

Flight Plan	CLOSE
Throttle	1000RPM's
Avionics	OFF
Lights - (Beacon On)	OFF
Mixture	IDLE/CUT OFF
Throttle	CLOSE as RPM Drops
Ignition Key	OFF & OUT
Tach/Hobbs	NOTE
Master	OFF

SECURING AIRCRAFT

Control lock	INSTALL
Sun Visors	INSTALL
Tie Down	SECURE
Remove Person Items & TRASH	
Pitot Cover	CHECK/DOWN

