

N172DP – NORMAL CHECKLIST

BEFORE START

Exterior	COMPLETE
Seats, Belts	ADJUST & LOCK
Passenger Brief	COMPLETE
PIC	
S – Seats & Belts	
A – Aircraft	
F – Fire / No Smoking	
E – Exits	
T – Talking	
Y – Your Questions?	
Cell Phones	AIRPLANE MODE
Fuel Shutoff Valve	BOTH
Elevator Trim	NEUTRAL
Rudder Trim	NEUTRAL/AS DESIRED
Cowl Flaps	OPEN
Avionics	OFF
Electrical Equip. (Lights)	OFF
Beacon	ON
Landing Gear Lever	DOWN
Circuit Breakers	CHECK

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

TAXI CHECK

Brakes	CHECK
Compass	SWING FREELY
Airspeed	READS ZERO
Attitude Indicator	UP & STABILIZED
Altimeter	W/I 75' OF ELEVATION
Turn Coordinator	TURN IN PROPER DIRECTION/ BALL OPPOSITE
Heading Indicator	SWINGS FREE
VSI	NOTE WHAT IT READS

RUN UP

Flight Controls	FREE & CORRECT
Brakes	HOLD
Throttle	1,800RPM's
Engine Instruments	CHECK
Ammeter	CHECK
Suction	CHECK
Magnetos (Drop 150 max/50 between)	CHECK
Propeller	CYCLE
Carb Heat	ON-Check RPM DROP
Throttle	IDLE CHECK
Carburetor Heat	OFF
Alternate Static Source	ON/CHECK/OFF
Throttle	1000 RPM's
Mixture	LEAN
Flight Instruments	CHECK/SET
Comm / Nav. Radio's	SET

NORMAL TAKEOFF

Flaps	Set 0°
Landing Light	ON
Transponder	ALT
Mixture	RICH
Time Off	LOG
Compass and Runway Heading	VERIFY
Throttle	FULL
Rotate	55 KIAS
Normal Climb	85-95 KIAS

SHORT FIELD TAKEOFF

Flaps	SET 0°
Landing Light	ON
Transponder	ALT
Mixture	RICH
Time Off	LOG
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	Vy 77-84 KIAS
Landing Gear	UP
Flaps	RETRACT
Normal Climb	85-95 KIAS

SOFT FIELD TAKEOFF

Flaps	SET 10°
Landing Light	ON
Transponder	ALT
Mixture	RICH
Time Off	LOG
Yoke	AFT
Brakes	AVOID USING
Throttle	FULL
Lift Off ASAP	ACCELERATE TO. 63 KIAS
Climb Out	Vy – 77-84 KIAS
Landing Gear	UP
Flaps	RETRACT
Normal Climb	85-95 KTS

Vx 59-63 Vy 77-84 Vg 75

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

Add ½ Gust Factor to all speeds	
G – Gas (Fuel Selector)	BOTH
L – Landing Light	ON
U – Under-Carriage	DOWN
M – Mixture	RICH
P – Prop	HIGH RPM
S – Seat Belts	SECURE

NORMAL LANDING (G.U.M.P.)

Carburetor Heat	ON
Gear	DOWN below 140 KIAS
Mixture	RICH
Propeller	HIGH RPM
Approach	75-60 KTS

SHORT FIELD LANDING

Carb Heat	ON
Flaps on final	FULL
Airspeed	63 KIAS
Approach	STEEP DESCENT
Touchdown	AVOID FLOATING
Brakes	APPLY HEAVILY
Flaps	VARYIFY/RETRACT
Elevator	FULL BACK PRESSURE

SOFT FIELD LANDING

Flaps	FULL
Airspeed	75-60 KIAS
Touchdown	NOSE HIGH
Carburetor Heat	OFF
Brakes	AVOID USING

AFTER LANDING

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

ENGINE SHUT DOWN

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
Flight Plan	CLOSE
Tie Down	SECURE
Remove Person Items & TRASH	

