



N172DP  
NORMAL CHECKLIST



BEFORE START	
Exterior	COMPLETE
Seats/Seatbelts	ADJUSTED/LOCKED
Passenger Brief	COMPLETE
<i>S – Seats/Belts</i>	
<i>A – Aircraft</i>	
<i>F – Fire/Smoking</i>	
<i>E – Exits</i>	
<i>T – Talking</i>	
<i>Y – An(y) Questions?</i>	
Fuel Selector	BOTH
Trim	TAKEOFF
Cowl Flaps	OPEN
Avionics and Lights	OFF
Beacon	ON
Landing Gear Lever	DOWN
Circuit Breakers	CHECK

ENGINE START	
Brakes	HOLD
Mixture	RICH
Propeller	HIGH RPM
Carb Heat	OFF
Prime	AS REQ'D
<i>Cold – 1 Full Prime</i>	
<i>Warm – ½ Prime</i>	
<i>Hot – No Prime, Fuel Pump On</i>	
Throttle	Open ¼"
Master	ON
Landing Gear Light/Horn	GREEN/AUDIBLE
Aux Fuel Pump	ON/CHECK/OFF
Propeller Area	CLEAR
Ignition	START
Oil Pressure	CHECK
Ammeter	CHECK
Mixture	LEAN
Avionics	ON
Transponder	1200 ALT
Weather	OBTAIN
Flaps	RETRACT
Heading Indicator	SET
Radio	CHECK

TAXI	
Crosswind	DIVE AWAY/TURN INTO
Brakes	TEST
Compass	SWINGS FREELY
Airspeed	ZERO
Attitude Indicator	STABILIZED
Altimeter	W/I 75' ELEVATION
Turn Needle	PROPER DIRECTION
Inclinometer	BALL OPPOSITE TURN
Heading Indicator	SWINGS FREELY
VSI	NOTE LEVEL INDICATION

RUN UP	
Flight Controls	FREE AND CORRECT
Brakes	HOLD
Mixture	RICH
Throttle	1800 RPM
Engine Instruments	CHECK
Ammeter	CHECK
Suction	CHECK
Magnetos	CHECK (150 max/50 between)
Propeller (Cycle 3X)	CHECK
<i>RPM decrease</i>	
<i>MP increase</i>	
<i>Oil pressure decrease</i>	
Alt Static Source	CHECK
Carb Heat	ON
Throttle	IDLE CHECK
Carb Heat	OFF
Throttle	1000 RPM
Comm/Nav Radios	SET
Throttle Friction Lock	SET

BEFORE TAKEOFF	
Pre-Takeoff Brief	COMPLETE
<i>Engine Failure On Runway</i>	
<i>Engine Failure After Rotation</i>	
<i>Engine Failure Below 1000'</i>	
Landing Light	ON
Strobe Lights	ON
Mixture	SET AS REQ'D
Time	LOG

NORMAL TAKEOFF	
Flaps	SET 0°
Compass/Rwy Heading	VERIFY
Throttle	FULL (Verify 2700 RPM)
Rotate	55 KIAS
Climb	70-80 KIAS
Landing Gear	RETRACT

SHORT FIELD TAKEOFF	
Flaps	SET 0°
Use Max Available Runway	
Brakes	HOLD
Throttle	FULL (Verify 2700 RPM)
Engine Instruments	CHECK
Brakes	RELEASE
Yoke	SLIGHT FORWARD
Rotate	55 KIAS
Climb	63 KIAS
<i>Once Obstacle Cleared:</i>	
Landing Gear	RETRACT
Climb V <sub>y</sub>	84 KIAS



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SOFT FIELD TAKEOFF	
Flaps	SET 10°
Yoke	FULL AFT
Brakes	AVOID
Throttle	FULL
Rotate	ASAP
Engine Instruments	CHECK
Climb	63 KIAS
<i>Once Obstacle Cleared:</i>	
Landing Gear	RETRACT
Flaps	RETRACT
Climb V <sub>y</sub>	84 KIAS

CLIMB	
Airspeed	85-95 KIAS
Power	2500 RPM/25" Hg
Trim	SET
Landing Light	OFF
Flight Plan	OPEN

CRUISE	
Power	SET (15-25" Hg/2100-2700 RPM)
Trim	SET
Mixture	SET AS REQ'D
Heading Indicator	CHECK
Cowl Flaps	CLOSED

DESCENT	
Passenger Brief	COMPLETE
Carb Heat	AS REQ'D
Power	SET
Mixture	SET AS REQ'D
Cowl Flaps	CLOSED
Trim	SET

BEFORE LANDING (GLUMPS)	
Weather	OBTAIN
G – Gas (Fuel Selector)	BOTH
L – Landing Light	ON
U – Undercarriage	DOWN (Below 140 kts)
M – Mixture	RICH
P – Prop	HIGH RPM
S – Seatbelts	SECURED

NORMAL LANDING	
Carb Heat	ON
Flaps	FULL
Approach	65 KIAS

SHORT FIELD LANDING	
Carb Heat	ON
Flaps	FULL
Airspeed	70 KIAS
Approach	STEEP DESCENT
Touchdown	AVOID FLOATING
Brakes	APPLY HEAVILY
Flaps	RETRACT
Yoke	FULL AFT

SOFT FIELD LANDING	
Carb Heat	ON
Flaps	FULL
Airspeed	75 KIAS
Touchdown	NOSE HIGH
Brakes	AVOID USING
Yoke	FULL AFT

AFTER LANDING	
Flaps	RETRACT
Mixture	LEAN
Carb Heat	OFF
Cowl Flaps	OPEN
Landing Light	OFF
Strobe Lights	OFF
Trim	TAKEOFF

ENGINE SHUTDOWN	
Avionics	OFF
Throttle	1000 RPM
Mixture	IDLE CUTOFF
Throttle	CLOSE AS RPM DROPS
Ignition	OFF
Master	OFF
Control Lock(s)	INSTALLED
Flight Plan	CLOSE