



N1663J
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	FULLEST TANK
Trim	TAKEOFF
Avionics	OFF
Lights	OFF
Beacon	ON
Breakers	CHECK
ENGINE START	
Brakes	HOLD
Mixture	RICH
Carb Heat	OFF
Prime	AS REQ'D
<i>Cold – 1 Full Prime</i>	
<i>Warm – ½ Prime</i>	
<i>Hot – No Prime</i>	
Throttle	Open ¼"
Master	ON
Fuel Pump	ON
Fuel Pressure	CHECK
Propeller Area	CLEAR
Ignition	LEFT/START/BOTH
Oil Pressure	CHECK
Ammeter	CHECK
Fuel Pump	OFF
Fuel Pressure	CHECK
Mixture	LEAN
Avionics	ON
GPS	CHECK
Transponder	1200 ALT
Weather	OBTAIN
Flaps	RETRACT
Heading Indicator	SET
Radio	CHECK

V_x – 74 mph V_y – 85 mph
V_G – 83 mph

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	2000 RPM
Engine Instruments	CHECK
Ammeter	CHECK
Suction	CHECK (4.9-5.1)
Magnetos	CHECK (175 max/50 between)
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
Nav Light	ON
Door	LATCHED
Mixture	SET AS REQ'D
Fuel Pump	ON
Fuel Selector	FULLEST TANK
Time	LOG

NORMAL TAKEOFF	
Flaps	SET 0°
Compass/Rwy Heading	VERIFY
Throttle	FULL (Verify 2200-2500 RPM)
Rotate	65 MPH
Climb V _y	85 MPH



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SHORT FIELD TAKEOFF	
Flaps	SET 25° (2 nd Notch)
Use Max Available Runway	
Brakes	HOLD
Throttle	FULL
Engine Instruments	CHECK
Brakes	RELEASE
Yoke	SLIGHT FORWARD
Rotate	65 MPH
Climb V _x	74 MPH
<i>Once Obstacle Cleared:</i>	
Flaps	RETRACT
Climb V _y	85 MPH

SOFT FIELD TAKEOFF	
Flaps	SET 25° (2 nd Notch)
Yoke	FULL AFT
Brakes	AVOID
Throttle	FULL
Engine Instruments	CHECK
Rotate	ASAP
Climb V _x	74 MPH
<i>Once Obstacle Cleared:</i>	
Flaps	RETRACT
Climb V _y	85 MPH

CLIMB	
Fuel Pump	OFF
Fuel Pressure	CHECK
Trim	SET
Landing Light	OFF
Flight Plan	OPEN

CRUISE	
Power	SET (2200-2500 RPM)
Trim	SET
Fuel Selector	AS NEEDED
Mixture	SET AS REQ'D
Heading Indicator	CHECK

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

SWITCHING FUEL TANKS	
Fuel Pump	ON (Verify Pressure)
Fuel Selector	SWITCH
Fuel Pump	OFF (Verify Pressure)
BEFORE LANDING (GLUMPS)	
Weather	OBTAIN
G – Gas	FULLEST TANK/PUMP ON
L – Landing Light	ON
U – Undercarriage	CHECK
M – Mixture	RICH
P – Power	SET
S – Seatbelts	SECURED

NORMAL LANDING	
Flaps	FULL
Approach	76 MPH

SHORT FIELD LANDING	
Flaps	FULL
Airspeed	65 MPH
Approach	STEEP DESCENT
Touchdown	AVOID FLOATING
Brakes	APPLY HEAVILY
Flaps	RETRACT
Yoke	FULL AFT

SOFT FIELD LANDING	
Flaps	FULL
Airspeed	76 MPH
Touchdown	NOSE HIGH
Brakes	AVOID USING
Yoke	FULL AFT

AFTER LANDING	
Flaps	RETRACT
Mixture	LEAN
Carb Heat	OFF
Fuel Pump	OFF
Landing Light	OFF
Nav Light	OFF
Trim	TAKEOFF

ENGINE SHUTDOWN	
Avionics	OFF
Throttle	1000 RPM
Mixture	IDLE CUTOFF
Ignition	OFF
Master	OFF

Control Lock(s)	INSTALLED
Flight Plan	CLOSE
Tie Downs	SECURED