

N5887N – NORMAL CHECKLIST

BEFORE START

Seats & Seat Belts	ADJUST & LOCK
Fuel Selector Valve	BOTH
Circuit Breakers	CHECK
Radio Master Switch	OFF
All Other Electrical Equipment	OFF
Landing Gear	DOWN
Cowl Flaps	OPEN
Landing Gear Emergency Extension Valve Knob	UP
Parking Break	OFF

STARTING ENGINE

Brakes	TEST & HOLD
Mixture	LEAN
Propeller	HIGH RPM
Throttle	OPEN ¼"
Alternate Induction Air	COLD
Master Switch	ON
Voltmeter	CHECK
Fuel Pump Switch	ON
Mixture	FULL RICH
Mixture	LEAN
Fuel Pump Switch	OFF
Propeller Area	CLEAR
Ignition Switch	START
Mixture (after start)	FULL RICH
Throttle	800 to 1,000 RPM
Oil Pressure	CHECK
Alternator Switch	ON
Ammeter	CHECK CHARGING
Voltmeter	CHECK 13-16 VOLTS

FLOODED START PROCEDURES

INSERT INTO ABOVE CHECKLIST AS APPROPRIATE

Mixture	LEAN
Propeller	HIGH RPM
Throttle	FULL OPEN

HOT START PROCEDURES

INSERT INTO ABOVE CHECKLIST AS APPROPRIATE

DO NOT PRIME

Mixture	LEAN
Propeller	HIGH RPM
Throttle	FULL OPEN

BEFORE TAXI

Anti-Collision Lights	ON
Radio Master Switch	ON
Controls	CHECK
Flaps	CYCLE
Elevator Trim Tab	TAKEOFF RANGE
Rudder Trim	NEUTRAL
Alternate Static Source	CHECK
Instruments & Radios	SET

TAXI

Clearance	OBTAIN
Brakes	CHECK
Nose Wheel Steering	CHECK
Compass	CHECK

BEFORE TAKEOFF

Brakes	HOLD
Throttle	2000 RPM
Magnetos	CHECK
175 Max Drop & 50 Differential	
Propeller Control	CYCLE
Alternate Induction Air	CHECK
Gyro Suction Gauge (4.5 - 5.2)	CHECK
Alternate Static Source Valve	NORMAL
Throttle	IDLE CHECK

NORMAL TAKEOFF

Instruments & Radios	SET
Flaps	10°
Time Off	NOTE
Strobe Lights	ON
Landing Light	ON
Transponder	ON
Fuel Pump	ON
Mixture	RICH
Cabin Doors & Windows	CLOSED
ROTATE	73
CLIMB	100 – 120
Landing Gear	UP
Flaps	RETRACT

MAXIMUM PERFORMANCE CLIMB

Airspeed 94 KIAS at Sea Level	
81 KIAS at 10,000'	
Manifold Pressure	FULL
Propeller	2700 RPM
Mixture Below 5,000 DA	FULL
5,000 DA to 8,000 DA	AS REQUIRED
Over 8,000 DA	LEAN TO BEST PWR.
Cowl Flaps	AS REQUIRED

V_x 77 V_y 93 V_a 120 V_{glide} 86 V_{le} 130

SHORT FIELD TAKEOFF

INSERT INTO ABOVE CHECKLIST AS APPROPRIATE

Flaps	20°
Brakes	HOLD
Elevator Control	AFT OF NEUTRAL
Power	FULL
Brakes	RELEASE
ROTATE	69
CLIMB	72
Landing Gear	RETRACT
Flaps >81 KIAS & Obstacle Clr.	RETRACT

SOFT FIELD TAKEOFF

INSERT INTO ABOVE CHECKLIST AS APPROPRIATE

WITH OR WITHOUT OBSTACLE

Flaps	20°
Elevator	FULL AFT
Takeoff Roll / Liftoff	NOSE HIGH
CLIMB	72
Landing Gear	RETRACT
Flaps >81 KIAS & Obstacle Clr.	RETRACT

CLIMB

500' AGL

Manifold Pressure	FULL or 25"
Propeller	2500 RPM
Mixture (Below 5,000' DA)	FULL RICH
Cowl Flaps	AS REQUIRED

1,000 AGL

Level Off	LOOK
Landing Light	OFF
Fuel Pump	OFF

CRUISE

Cowl Flaps	CLOSED
Manifold Pressure	15" – 24"
Propeller	2200 – 2700 RPM
Power	75% MCP OR LESS
Fuel Pump	CONFIRM OFF
Mixture (Best Power – 100° R of P)	LEAN
Fuel Selector Valve	AS REQUIRED

DESCENT

Mixture	RICH
Throttle	AS REQUIRED
Propeller	AS REQUIRED
Cowl Flaps	CLOSED
Taxi Diagram	AVAILABLE

BEFORE LANDING

A – Auto Pilot	OFF
G – GAS	
Fuel Selector	BOTH
Fuel Pump	ON
L – LIGHTS	ON
U – UNDERCARRIAGE	DOWN
M – MIXTURE	RICH
P – PROP	HIGH
S – SEATS & SEAT BELTS	SECURE

GO AROUND

Throttle	FULL
Landing Gear	UP
Flaps	20°
Airspeed	81
Flaps	UP

NORMAL LANDING

Flaps	35°
Airspeed	81

SHORT FIELD LANDING

Flaps	35°
Airspeed	73 MINIMUM
Flaps	RETRACT
Braking	MAXIMUM
Elevator Control	FULL AFT

SOFT FIELD LANDING

FINAL APPROACH

Flaps	35°
Airspeed	73
Manifold Pressure	12 – 14"
Rollout	NOSE HIGH

AFTER LANDING

Flaps	RETRACT
Cowl Flaps	OPEN
Fuel Pump	OFF
Strobe & Landing Lights	OFF
Transponder	STANDBY
Mixture	LEAN

SHUTDOWN

Radio Master Switch	OFF
Electrical Equipment	OFF
Mixture	LEAN
Ignition Switch	OFF
Master Switch	OFF
Control Lock	INSTALL
Fuel Selector Valve	OFF

