Checklist 172N — Normal Procedures — Page 1

Before Starting Engine

1	Brief Passenger	EXECUTE
2	Seats/Belt/Harness	ADJ/LOCK
3	Fuel Selector Valve	BOTH
4	Avionics	OFF
5	Circuit breakers	CHECK IN
6	Breaks	Set
7	Key in Ignition	IN/SET

STARTING ENGINE

1	Mixture	RICH
2	Carb Heat	COLD
3	Prime	AS REQ (2-6)
5	Throttle	1/8 IN
4	Master & beacon	ON
6	Prop Area	CLEAR
7	Ignition Switch	START
8	Oil Press.	CHECK

BEFORE TAXI

1	Flaps Up	CHECK
2	Mixture leaner if hot	
3	D.G. & Altimeter	SET
4	Transponder	1200 & STBY
5	Ground	CALL
6	Break	TEST

BEFORE TAKEOFF

1	Breakes	HELD
2	Harness & Doors	SECURE
3	Flight Controls	FREE/CORRECT
4	Flight Intruments	SET
5	Primer	LOCKED
6	Fuel Selector	BOTH
7	Trim	SET TAKEOFF
8	Mixture	RICH (BELOW 3000)
9	Throttle 1700 RPM	
	- Magnetos (125/50)	CHECK
	- Engine Intruments	CHECK
	- Alternator/Ammeter	CHECK
	- Suction Gage	CHECK
	- Carb Heat	CHECK (RPM DROP)
10	Radios/Autopilot	SET/OFF
11	Beacon/Navigation Lights	SET
12	Brakes	RELEASE

Before Takeoff Check

1	Mixture	SET
2	Flaps	UP
3	Transponder	ON Alt 1200
4	Trim	TAKEOFF
5	Carb Heat	OFF

After Takeoff

1	Engine Instruments	CHECK

Short Field Takeoff

1	Flaps	UP
2	Carb Heat	COLD
3	Brakes	APPLY
4	Throttle	FULL OPEN
5	Mixture	RICH (BELOW 3000)
6	Brakes	RELEASE
7	Climb Speed	59 KTS

Engine Failure Dur. Takeoff Run

1	Throttle	IDLE
2	Brakes	APPLY
3	Flaps	RECTRACT
4	Mixture	IDLE CUT OFF
5	Ignition Switch	OFF
6	Master Switch	OFF

Engine Failure after Takeoff

1	Airspeed	65 (flaps up)
		60 (flaps down)
2	Mixture	IDLE CUT OFF
3	Fuel Selector	OFF
4	Ignition Switch	OFF
5	Flaps	As required
6	Master Switch	OFF

SPEEDS (C172N 1977)

V_{so}	41	V_X	59
V_{S1}	47	V_Y	73
V_{FE}	85	V_{NO}	128
V_A	80-97	V_{NE}	160
		V_{glide}	65

Descent

1	Mixture	RICH
2	ATIS	MONITOR
3	Landing Light within 5 miles	ON

Downwind

1	Seats/Belt/Harness	SECURE
2	Fuel Selector	BOTH
3	Mixture	RICH
4	Carb Heat	ON

Normal Landing

1	Airspeed	60-70 (flaps up)
2	Flaps	As Desired
3	Airspeed	55-65 (flaps down)
4	Touchdown	Lower nose gently
5	Brakes	Minimum Req.

Short Field Landing

1	Airspeed	60-70 (flaps up)
2	Flaps	Full (40°)
3	Airspeed	60 KTs
4	Power	idle after clear obstacle
5	Touchdown	main wheels first
6	Brakes	Apply heavily
7	Flaps	Retract

Go Around

1	Throttle	FULL OPEN
2	Carb Heat	COLD
3	Flaps	20° Immediatley
4	Climb Speed	55 KTS
5	Flaps	10° (until obs cleared)
		Retract when 60 Kts

After Landing

1	Flaps	UP
2	Carb Heat	COLD
3	Transponder	STBY
4	Trim	NEUTRAL

Shutdown

1	Magnito Ground	CHECK
2	Avionics & Lights	OFF
3	Mixture	IDLE CUT OFF
4	Ignition Switch	OFF
5	Master & Beacon	OFF

Engine Failure in Flight

1	Airspeed	65 KTs
2	Look for landing area	
3	Fuel Selector	BOTH
4	Mixture	RICH
5	Throttle	FULL
6	Carb Heat	ON
7	Ignition Switch	BOTH
8	Primer	IN AND LOCKED

Declare Emergency

1	Transponder	SET to 7700
2	Call Emergency	121.5/MAYDAY
3	Doors/SeatBelts	OPEN/FASTEN

Emergency Landing without Engine power

1	Airspeed	65 Kts (flaps UP)
		60 KTs (FLAPS down)
2	Mixture	IDLE CUT OFF
3	Fuel Selector	OFF
4	Ignition Switch	
5	Flaps	AS REQUIRED
6	Master Switch	OFF
7	Doors	UNLATCHED
8	Touchdown	SLIGHTLY TAIL LOW
9	Brakes	APPLY HEAVILY

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V_{S1}	47	V_Y	73
V_{FE}	85	V_{NO}	128
V_A	80-97	V_{NE}	160
		V_{glide}	65

Fire during Start on Ground

1	Continue Cranking	
	If Engine Starts	
2	Power	1700 RPM for a few min
3	Engine	SHUTDOWN
	If Engine Fails	
2	Throttle	FULL OPEN
3	Mixture	IDLE CUT OFF
4	Cranking	CONTINUE
5	Fire Extinguisher	OBTAIN
6	Engine	SECURE
7	a) Master Switch	OFF
8	b) Ignition Switch	OFF
9	c) Fuel Selector	OFF
10	Fire	EXTINGUISH
11	Fire damage	INSPECT

Engine FIRE in FLIGHT

1	Mixture	IDLE CUT OFF
2	Fuel Selector	OFF
3	Master Switch	OFF
4	Cabin heat and air	OFF
5	Airspeed	100 KTS
		(increase if needed)
5	Forced Landing	EXECUTE

Electrical FIRE in Flight

1	Master Switch	OFF
2	All other switches (exc ign)	OFF
3	Vents/Cabin Air/Heat	CLOSED
4	Fire Extenguisher	ACTIVATE
	If fire is out, and power is needed to continue flight	
5	Master Switch	ON
6	Circuit Breakers	CHECK
7	Radio/Elec Switch.	ON
	one at a time, until short circuit found	
8	Vents/Cabin Air/Heat	OPEN

CABIN FIRE

1	Master Switch	OFF
2	Vents/Cabin Air/Heat	CLOSED
3	Fire Extinguisher	ACTIVATE
4	Land Airplace	ASAP

Wing FIRE

1	Navigation Light Switch	OFF
2	Pitot Heat Switch	OFF
3	Strobe Light Switch	OFF
	Perform Side slip to keep fire away from fuel tank (see p 3-7)	

Inadvertant ICING encounter in POH on page 3-7

1	Pitot Heat Switch	ON
2	Turn back or change altitude	
3	Cabin heat	FULL ON
4	THROTTLEOPEN to increase speed	
5	Carb Heat	If needed
6	Plan landing at nearest Airport	
7	Plan for higher Stall speed	
8	Flaps	LEAVE RETRACTED
9	Open Left Window for better views	
10	Use forward slip for landing	
11	Approach at 65-75 KTS depending on ice accumlation	
12	Perform landing in level attitude	

High-voltage Light Alluminates

1	Master Switch	OFF
2	Master Switch	ON
3	High-voltage Light	OFF
	If High voltage still on:	
4	*Terminate FLIGHT ASAP*	

Ammeter shows discharge

1	Alternator	OFF
2	Non essential Elec. Equip	OFF
3	Flight	TERMINATE ASAP