

Checklist 172N		Normal Procedures		Page 1
Before Starting Engine		Before Takeoff Check		Descent
1 Brief Passenger	EXECUTE	1 Mixture	SET	1 Mixture RICH
2 Seats/Belt/Harness	ADJ/LOCK	2 Flaps	UP	2 ATIS MONITOR
3 Fuel Selector Valve	BOTH	3 Transponder	ON Alt 1200	3 Landing Light within 5 miles ON
4 Avionics	OFF	4 Trim	TAKEOFF	Downwind
5 Circuit breakers	CHECK IN	5 Carb Heat	OFF	1 Seats/Belt/Harness SECURE
6 Breaks	Set	After Takeoff		2 Fuel Selector BOTH
7 Key in Ignition	IN/SET	1 Engine Instruments	CHECK	3 Mixture RICH
STARTING ENGINE		Short Field Takeoff		4 Carb Heat ON
1 Mixture	RICH	1 Flaps	UP	Normal Landing
2 Carb Heat	COLD	2 Carb Heat	COLD	1 Airspeed 60-70 (flaps up)
3 Prime	AS REQ (2-6)	3 Brakes	APPLY	2 Flaps As Desired
5 Throttle	1/8 IN	4 Throttle	FULL OPEN	3 Airspeed 55-65 (flaps down)
4 Master & beacon	ON	5 Mixture	RICH (BELOW 3000)	4 Touchdown Lower nose gently
6 Prop Area	CLEAR	6 Brakes	RELEASE	5 Brakes Minimum Req.
7 Ignition Switch	START	7 Climb Speed	59 KTS	Short Field Landing
8 Oil Press.	CHECK	Engine Failure Dur. Takeoff Run		1 Airspeed 60-70 (flaps up)
BEFORE TAXI		1 Throttle	IDLE	2 Flaps Full (40°)
1 Flaps Up	CHECK	2 Brakes	APPLY	3 Airspeed 60 KTs
2 Mixture leaner if hot		3 Flaps	RETRACT	4 Power idle after clear obstacle
3 D.G. & Altimeter	SET	4 Mixture	IDLE CUT OFF	5 Touchdown main wheels first
4 Transponder	1200 & STBY	5 Ignition Switch	OFF	6 Brakes Apply heavily
5 Ground	CALL	6 Master Switch	OFF	7 Flaps Retract
6 Break	TEST	Engine Failure after Takeoff		Go Around
BEFORE TAKEOFF		1 Airspeed	65 (flaps up) 60 (flaps down)	1 Throttle FULL OPEN
1 Breakes	HELD	2 Mixture	IDLE CUT OFF	2 Carb Heat COLD
2 Harness & Doors	SECURE	3 Fuel Selector	OFF	3 Flaps 20° Immediately
3 Flight Controls	FREE/CORRECT	4 Ignition Switch	OFF	4 Climb Speed 55 KTS
4 Flight Instruments	SET	5 Flaps	As required	5 Flaps 10° (until obs cleared) Retract when 60 Kts
5 Primer	LOCKED	6 Master Switch	OFF	After Landing
6 Fuel Selector	BOTH	SPEEDS (C172N 1977)		1 Flaps UP
7 Trim	SET TAKEOFF	V _{SO}	41 V _X 59	2 Carb Heat COLD
8 Mixture	RICH (BELOW 3000)	V _{S1}	47 V _Y 73	3 Transponder STBY
9 Throttle 1700 RPM		V _{FE}	85 V _{NO} 128	4 Trim NEUTRAL
- Magnetos (125/50)	CHECK	V _A	80-97 V _{NE} 160	Shutdown
- Engine Instruments	CHECK		V _{glide} 65	1 Magneto Ground CHECK
- Alternator/Ammeter	CHECK			2 Avionics & Lights OFF
- Suction Gage	CHECK			3 Mixture IDLE CUT OFF
- Carb Heat	CHECK (RPM DROP)			4 Ignition Switch OFF
10 Radios/Autopilot	SET/OFF			5 Master & Beacon OFF
11 Beacon/Navigation Lights	SET			
12 Brakes	RELEASE			

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Checklist 172N		EMERGENCIES		Page 2
Engine Failure in Flight		Fire during Start on Ground		CABIN FIRE
1 Airspeed	65 KTs	1 Continue Cranking		1 Master Switch OFF
2 Look for landing area		If Engine Starts		2 Vents/Cabin Air/Heat CLOSED
3 Fuel Selector	BOTH	2 Power 1700 RPM for a few min		3 Fire Extinguisher ACTIVATE
4 Mixture	RICH	3 Engine SHUTDOWN		4 Land Airplace ASAP
5 Throttle	FULL	If Engine Fails		Wing FIRE
6 Carb Heat	ON	2 Throttle FULL OPEN		1 Navigation Light Switch OFF
7 Ignition Switch	BOTH	3 Mixture IDLE CUT OFF		2 Pitot Heat Switch OFF
8 Primer	IN AND LOCKED	4 Cranking CONTINUE		3 Strobe Light Switch OFF
Declare Emergency		5 Fire Extinguisher OBTAIN		<i>Perform Side slip to keep fire away from fuel tank (see p 3-7)</i>
1 Transponder	SET to 7700	6 Engine SECURE		Inadvertant ICING encounter in POH on page 3-7
2 Call Emergency	121.5/MAYDAY	7 a) Master Switch OFF		1 Pitot Heat Switch ON
3 Doors/SeatBelts	OPEN/FASTEN	8 b) Ignition Switch OFF		2 Turn back or change altitude
Emergency Landing without Engine power		9 c) Fuel Selector OFF		3 Cabin heat FULL ON
1 Airspeed	65 Kts (flaps UP)	10 Fire EXTINGUISH		4 THROTTLE OPEN to increase speed
	60 KTs (FLAPS down)	11 Fire damage INSPECT		5 Carb Heat If needed
2 Mixture	IDLE CUT OFF	Engine FIRE in FLIGHT		6 Plan landing at nearest Airport
3 Fuel Selector	OFF	1 Mixture IDLE CUT OFF		7 Plan for higher Stall speed
4 Ignition Switch		2 Fuel Selector OFF		8 Flaps LEAVE RETRACTED
5 Flaps	AS REQUIRED	3 Master Switch OFF		9 Open Left Window for better views
6 Master Switch	OFF	4 Cabin heat and air OFF		10 Use forward slip for landing
7 Doors	UNLATCHED	5 Airspeed 1000 KTS		11 Approach at 65-75 KTS depending on ice accumulation
8 Touchdown	SLIGHTLY TAIL LOW	(increase if needed)		12 Perform landing in level attitude
9 Brakes	APPLY HEAVILY	5 Forced Landing EXECUTE		High-voltage Light Alluminates
SPEEDS (C172N 1977)		Electrical FIRE in Flight		1 Master Switch OFF
V _{so}	41	1 Master Switch OFF		2 Master Switch ON
V _X	59	2 All other switches (exc ign) OFF		3 High-voltage Light OFF
V _{S1}	47	3 Vents/Cabin Air/Heat CLOSED		<i>If High voltage still on:</i>
V _Y	73	4 Fire Extinguisher ACTIVATE		4 Terminate FLIGHT ASAP
V _{FE}	85	<i>If fire is out, and power is needed to continue flight</i>		Ammeter shows discharge
V _{NO}	128	5 Master Switch ON		1 Alternator OFF
V _A	80-97	6 Circuit Breakers CHECK		2 Non essential Elec. Equip OFF
V _{NE}	160	7 Radio/Elec Switch. ON		3 Flight TERMINATE ASAP
V _{glide}	65	8 Vents/Cabin Air/Heat OPEN		

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