

Cessna 172N		Alternator Belt	Check	Avionics Master	On	Enroute Climb	
N75706		Air Intake	Check	Radios	Set	Airspeed	70-85 kts
Preflight Inspection Cockpit		Carburetor Filter	Check	Flaps	Retract	Throttle	Full Open
Aircraft Docs (AROW)	Check	Nose Wheel/Strut	Check	Heading Indicator	Set	Mixture	Rich
Weight & Balance	Check	Static Source	Open	Weather/ATIS	Obtain	Cruise	
Control Wheel Lock	Remove	Left Wing		Altimeter	Set	Power	As Required
Hobbs Meter	Check	Fuel Tank Sump	Sample	Before Takeoff		Mixture	Lean
Ignition Switch	Off	Fuel Quantity	Check	Brakes	Set	Trim	As Required
Avionics Power Switch	Off	Fuel Cap	Secure	Cabin Doors	Closed/Locked	Lights	As Required
Master Switch	On	Pitot Tube	Open	Seats/Belts	Adjust/Lock	Descent	
Fuel Quantity Indicators	Check	Fuel Vent	Open	Flight Controls	Free/Correct	Weather/ATIS	Obtain
Lights	On/Check	Stall Warning	Open	Fuel Selector	Both	Altimeter	Set
Lights (except beacon)	Off	Wing Tie Down	Remove	Fuel Quantity	Check	Fuel Selector	Both
Flaps	Extend	Leading Edge	Check	Mixture	Rich	Power	As Required
Master Switch	Off	Wing Tip	Check	Instruments	Set	Mixture	Adjust
Fuel Selector	Both	Aileron	Check	Elevator Trim	Set/Takeoff	Lights	As Required
Fuselage & Empennage		Flap	Check	Throttle	1700 RPM	Radios	Set
Baggage Door	Closed	Main Wheel/Brake	Check	Magnetos	Check	Approach	
Horizontal Stabilizer	Check	Before Engine Start		Carburetor Heat	On/Check/Off	Instruments	Check/Set
Elevator	Check	Preflight	Complete	Suction Gauge	Check	Carburetor Heat	On
Trim Tab	Check	Passenger Brief	Complete	Engine Instruments	Check	Mixture	Rich
Vertical Stabilizer	Check	Seats/Belt	Adjust/Lock	Ammeter	Check	Airspeed	65-75 (Flaps Up)
Rudder	Check	Doors	Closed/Locked	Throttle	1000 RPM		60-70 (Flaps Dn)
Tail Tie Down	Remove	Brakes	Test/Set	Friction Lock	Set	After Landing	
Antennas	Check	Circuit Breakers	Check In	Radios/Avionics	Set	Flaps	Up
Right Wing		Lights/Electrical	Off	Flaps	As Needed	Carburetor Heat	Off
Flap	Check	Avionics Master	Off	Windows	Closed	Lights	As Required
Aileron	Check	Fuel Selector	Both	Lights	As Required	Parking	
Wing Tip	Check	Starting Engine		Transponder	Set/Altitude	Avionics	Off
Leading Edge	Check	Throttle	1/8 Inch	Brakes	Release	Lights/Electrical	Off
Wing Tie Down	Remove	Mixture	Rich	Normal Takeoff		Throttle	1000 RPM
Main Tire/Brake	Check	Carburetor Heat	Off	Flaps	Up	Mixture	Idle Cut-Off
Fuel Tank Sump	Sample	Prime	As Required	Trim	Set/Takeoff	Ignition Switch	Off
Fuel Quantity	Check	Propeller Area	Clear	Carburetor Heat	Off	Master Switch	Off
Fuel Cap	Secure	Master Switch	On	Throttle	Full Open	Secure Aircraft	
Nose		Beacon	On	Elevator Trim	Rotate 55 kts	Control Lock	Install
Engine Oil Level	Check	Ignition Switch	Start	Climb Speed	70-80 kts	Hobbs	Record
Fuel Strainer	Sump	Throttle	1000 RPM			Doors/Windows	Closed/Locked
Propeller Spinner	Check	Oil Pressure	Check Normal			Tie Downs	Secure
Exhaust Pipe	Check	Ammeter	Positive				

Short Field Takeoff

Flaps **Up**
 Taxi **Max Runway**
 Brakes **Apply**
 Throttle **Full Open**
 Brakes **Release**
 Lift Off **52 KIAS**
 At 50 Feet **59 KIAS**

Short Field Landing

Approach Speed **60 KIAS**
 Flaps **40°**
 Throttle **As Needed**
 Touchdown **Main Wheels**
 Brakes **Apply Heavily**
 Flaps **Retract**

Go Around

Throttle **Full Open**
 Carburetor Heat **Off**
 Flaps (Immediate) **Retract 20°**
 Climb Speed **55 KIAS**
 Flaps (When Safe) **Retract**

Engine Failure Takeoff Roll

Throttle **Idle**
 Brakes **Apply**
 Flaps **Retract**
 Mixture **Idle Cut Off**
 Ignition Switch **Off**
 Master Switch **Off**

Engine Failure After Takeoff

Airspeed **65 Flaps Up**
60 Flaps Dn
 Mixture-Idle **Cut Off**
 Land **Straight Ahead**
 Fuel Selector **Off**
 Ignition Switch **Off**
 Flaps **As Needed**
 Master Switch **Off**
 Cabin Doors **Unlatch**

Engine Failure Flight

Airspeed **65 KIAS**
 Carburetor Heat **On**
 Fuel Selector **Both**
 Mixture **Rich**
 Ignition Switch **Both**
 Primer **In/Locked**

Forced Landing No Power

Seats/Belts **Adjust/Lock**
 Airspeed **65 kts-Flaps Up**
60 kts-Flaps Dn
 Mixture **Idle Cut Off**
 Fuel Selector **Off**
 Ignition Switch **Off**
 Flaps **As Required**
 Master Switch **Recommend 40°**
 Doors **Off**
 Touchdown **Unlatch**
 Brakes **Tail Low**
As Needed

Engine Fire During Start

Cranking **Continue**
If Engine Starts
 Power **1700 RPM**
After A Few Minutes
 Engine **Shut Down**

If Engine Fails to Start

Throttle **Full Open**
 Mixture **Idle Cut Off**
 Cranking **Continue**
 Extinguisher **Obtain**
 Master Switch **Off**
 Ignition Switch **Off**
 Fuel Selector **Off**
 Fire **Extinguish**

Engine Fire During Flight

Mixture **Idle Cut Off**
 Fuel Selector **Off**
 Master Switch **Off**
 Cabin Heat/Air **Off**
 Airspeed **100 KIAS or >**
 Forced Landing **Execute**

Electrical System Malfunction

Ammeter Shows Excessive Rate of Charge
 Alternator **Off**
 Electrical Equipment **Non Essential-Off**
 Terminate Flight **When Practical**
Low Voltage Light On
 Avionics Switch **Off**
 Master Switch **Off**
 Master Switch **On**
 Low Voltage Light **Off**
 Avionics Switch **On**

Low Voltage Illuminates Again
 Alternator **Off**
 Avionics Switch **Off**
 Electrical & Non Essential Radio Equipment **Off**
 Terminate Flight **When Practical**

Electrical Fire in Flight

Master Switch **Off**
 Avionics Switch **Off**
 All Other Switches (Except Ignition) **Off**
 Vents/Cabin Air/Heat **Closed**
 Fire Extinguisher **Activate**
If Fire Appears Out
 Master Switch **On**
 Circuit Breakers **Check for faulty circuit, do no reset**
 Radio Equipment **Off**
 Avionics Switch **On**
 Radio/Electrical Switches **On one at a time**

V Speeds (KIAS)

Vg	65
Vr	55
Normal Climb	70-80
Vx (Sea Level)	59
Vx (10,000 Ft)	61
Vy (Sea Level)	73
Vy (10,000 Ft)	68
Va	
2300	97
1950	89
1600	80
Vfe	85
Vno	128
Vne	160
Vs	47
Vso	41