

<b>Cessna 172N</b>		Alternator Belt	<b>Check</b>	Avionics Master	<b>On</b>	<b>Enroute Climb</b>	
<b>N3477E/N4879D</b>		Air Intake	<b>Check</b>	Radios	<b>Set</b>	Airspeed	<b>70-85 kts</b>
<b>Preflight Inspection Cockpit</b>		Carburetor Filter	<b>Check</b>	Flaps	<b>Retract</b>	Throttle	<b>Full Open</b>
Aircraft Docs (AROW)	<b>Check</b>	Nose Wheel/Strut	<b>Check</b>	Heading Indicator	<b>Set</b>	Mixture	<b>Rich</b>
Weight & Balance	<b>Check</b>	Static Source	<b>Open</b>	Weather/ATIS	<b>Obtain</b>	<b>Cruise</b>	
Control Wheel Lock	<b>Remove</b>	<b>Left Wing</b>		Altimeter	<b>Set</b>	Power	<b>As Required</b>
Hobbs Meter	<b>Check</b>	Fuel Tank Sump	<b>Sample</b>	<b>Before Takeoff</b>		Mixture	<b>Lean</b>
Ignition Switch	<b>Off</b>	Fuel Quantity	<b>Check</b>	Brakes	<b>Set</b>	Trim	<b>As Required</b>
Avionics Power Switch	<b>Off</b>	Fuel Cap	<b>Secure</b>	Cabin Doors	<b>Closed/Locked</b>	Lights	<b>As Required</b>
Master Switch	<b>On</b>	Pitot Tube	<b>Open</b>	Seats/Belts	<b>Adjust/Lock</b>	<b>Descent</b>	
Fuel Quantity Indicators	<b>Check</b>	Fuel Vent	<b>Open</b>	Flight Controls	<b>Free/Correct</b>	Weather/ATIS	<b>Obtain</b>
Lights	<b>On/Check</b>	Stall Warning	<b>Open</b>	Fuel Selector	<b>Both</b>	Altimeter	<b>Set</b>
Lights (except beacon)	<b>Off</b>	Wing Tie Down	<b>Remove</b>	Fuel Quantity	<b>Check</b>	Fuel Selector	<b>Both</b>
Flaps	<b>Extend</b>	Leading Edge	<b>Check</b>	Mixture	<b>Rich</b>	Power	<b>As Required</b>
Master Switch	<b>Off</b>	Wing Tip	<b>Check</b>	Instruments	<b>Set</b>	Mixture	<b>Adjust</b>
Fuel Selector	<b>Both</b>	Aileron	<b>Check</b>	Elevator Trim	<b>Set/Takeoff</b>	Lights	<b>As Required</b>
<b>Fuselage &amp; Empennage</b>		Flap	<b>Check</b>	Throttle	<b>1700 RPM</b>	Radios	<b>Set</b>
Baggage Door	<b>Closed</b>	Main Wheel/Brake	<b>Check</b>	Magnetos	<b>Check</b>	<b>Approach</b>	
Horizontal Stabilizer	<b>Check</b>	<b>Before Engine Start</b>		Carburetor Heat	<b>On/Check/Off</b>	Instruments	<b>Check/Set</b>
Elevator	<b>Check</b>	Preflight	<b>Complete</b>	Suction Guage	<b>Check</b>	Carburetor Heat	<b>On</b>
Trim Tab	<b>Check</b>	Passenger Brief	<b>Complete</b>	Engine Instruments	<b>Check</b>	Mixture	<b>Rich</b>
Vertical Stabilizer	<b>Check</b>	Seats/Belt	<b>Adjust/Lock</b>	Ammeter	<b>Check</b>	Airspeed	<b>65-75 (Flaps Up)</b>
Rudder	<b>Check</b>	Doors	<b>Closed/Locked</b>	Throttle	<b>1000 RPM</b>		<b>60-70 (Flaps Dn)</b>
Tail Tie Down	<b>Remove</b>	Brakes	<b>Test/Set</b>	Friction Lock	<b>Set</b>	<b>After Landing</b>	
Antennas	<b>Check</b>	Circuit Breakers	<b>Check In</b>	Radios/Avionics	<b>Set</b>	Flaps	<b>Up</b>
<b>Right Wing</b>		Lights/Electrical	<b>Off</b>	Flaps	<b>As Needed</b>	Carburetor Heat	<b>Off</b>
Flap	<b>Check</b>	Avionics Master	<b>Off</b>	Windows	<b>Closed</b>	Lights	<b>As Required</b>
Aileron	<b>Check</b>	Fuel Selector	<b>Both</b>	Lights	<b>As Required</b>	<b>Parking</b>	
Wing Tip	<b>Check</b>	<b>Starting Engine</b>		Transponder	<b>Set/Altitude</b>	Avionics	<b>Off</b>
Leading Edge	<b>Check</b>	Throttle	<b>1/8 Inch</b>	Brakes	<b>Release</b>	Lights/Electrical	<b>Off</b>
Wing Tie Down	<b>Remove</b>	Mixture	<b>Rich</b>	<b>Normal Takeoff</b>		Throttle	<b>1000 RPM</b>
Main Tire/Brake	<b>Check</b>	Carburetor Heat	<b>Off</b>	Flaps	<b>Up</b>	Mixture	<b>Idle Cut-Off</b>
Fuel Tank Sump	<b>Sample</b>	Prime	<b>As Required</b>	Trim	<b>Set/Takeoff</b>	Ignition Switch	<b>Off</b>
Fuel Quantity	<b>Check</b>	Propeller Area	<b>Clear</b>	Carburetor Heat	<b>Off</b>	Master Switch	<b>Off</b>
Fuel Cap	<b>Secure</b>	Master Switch	<b>On</b>	Throttle	<b>Full Open</b>	<b>Secure Aircraft</b>	
<b>Nose</b>		Beacon	<b>On</b>	Elevator Trim	<b>Rotate 55 kts</b>	Control Lock	<b>Install</b>
Engine Oil Level	<b>Check</b>	Ignition Switch	<b>Start</b>	Climb Speed	<b>70-80 kts</b>	Hobbs	<b>Record</b>
Fuel Strainer	<b>Sump</b>	Throttle	<b>1000 RPM</b>			Doors/Windows	<b>Closed/Locked</b>
Propeller Spinner	<b>Check</b>	Oil Pressure	<b>Check Normal</b>			Tie Downs	<b>Secure</b>
Exhaust Pipe	<b>Check</b>	Ammeter	<b>Positive</b>				

**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	<b>65</b>
Vr	<b>55</b>
Normal Climb	<b>70-80</b>
Vx (Sea Level)	<b>59</b>
Vx (10,000 Ft)	<b>61</b>
Vy (Sea Level)	<b>73</b>
Vy (10,000 Ft)	<b>68</b>
Va	
2300	<b>97</b>
1950	<b>89</b>
1600	<b>80</b>
Vfe	
10°	<b>110</b>
20°-40°	<b>85</b>
Vno	<b>128</b>
Vne	<b>160</b>
Vs	<b>47</b>
Vso	<b>41</b>