Cessna 172S		Nose		Starting Engine Cold		Normal Takeoff]
N5303T	_	Engine Oil Level	Check	Prime Procedure		Flaps	Set 0° - 10°
Preflight Inspection Cockpit		Fuel Sumps (3)	Sample	Aux. Pump on 2-3 sec	conds & Mixture	Mixture	RICH
Aircraft Docs (AROW)	Check	Propeller/Spinner	Check	Rich until fuel flow in	dication, then	Throttle	Full Open
Weight & Balance	Check	Exhaust Pipe	Check	Mixture	Idle Cut Off	Elevator Trim	Rotate 55 kts
Control Wheel Lock	Remove	Alternator Belt	Check	Auxiliary Pump	Off	Climb Speed	70-80 kts
Hobbs Meter	Check	Air Inlets	Check	Ignition	Start	Flaps	Retract
Ignition Switch	Off	Air Filter	Check	Mixture	Rich	Enroute Climb	
Avionics Power Switch	Off	Nose Wheel/Strut	Check	Throttle	1000 RPM	Airspeed	70-85 kts
Master Switch	On	Static Source	Open	Oil Pressure	Check	Throttle	Full Open
Fuel Quantity Indicators	Check	Left Wing		Ammeter	Positive	Mixture	Rich
Lights	On/Chec	k Fuel Sumps (5)	Sample	Avionics Master	On	Cruise	
Pitot Heat (if using)	On/Chec	k Fuel Quantity	Check	Radios	Set	Power	As Required
Lights (except beacon)	Off	Fuel Cap	Secure	Flaps	Retract	Mixture	Lean
Pitot Heat	Off	Pitot Tube	Open	Mixture	Lean	Trim & Lights	_As Required
Flaps	Extend	Fuel Vent	Open	Heading Indicator	Set	Descent	
Annunciator Panel	Test	Stall Warning	Open	Weather/ATIS	Obtain	Weather/ATIS	Obtain
Master Switch	Off	Wing Tie Down	Remove	Altimeter	_ Set	Altimeter	Set
Alternate Static Source	Off	Leading Edge	Check	Before Takeoff		Fuel Selector	Both
Fuel Selector	Both	Wing Tip	Check	Brakes	Set/Check	Power	As Required
Fuel Shutoff Valve	On	Aileron	Check	Doors/Windows	Closed/Locked	Mixture	Rich
Fuselage & Empennage		Flap	Check	Seats/Belts	Adjust/Lock	Lights	As Required
Baggage Door	Closed	Main Wheel/Brake	_ Check	Flight Controls	Free/Correct	Radios/Avionics	Set
Autopilot Static Source	Open	Before Engine Start		Fuel Selector	Both	Before Landing	
Horizontal Stabilizer	Check	Preflight	Complete	Fuel Quantity	Check	Seats/Belts	Adjust/Lock
Elevator	Check	Passenger Brief	Complete	Mixture	RICH	Fuel Selector	Both
Trim Tab	Check	Seats/Belts	Adjust/Lock	Flight Instruments	Set	Mixture	Rich
Vertical Stabilizer	Check	Doors	Closed/Locked	Elevator Trim	Set/Takeoff	Autopilot	Off
Rudder	Check	Brakes	Test/Set	Throttle	1800 RPM	Normal Landing	
Tail Tie Down	Remove	Circuit Breakers	Check In	Magnetos	Check 150/50	Flaps	As Required
Antennas	_ Check	Lights/Electrical	Off	Vacuum Gauge	Check	Approach Speed	65-75 Flaps Up
Right Wing		Avionics Master	Off	Engine Instruments	Check		60-70 Flaps Dn
Flaps	Check	Fuel Selector	Both	Annunciator Panel	Clear	Brakes	_As Required
Aileron	Check	Fuel Shutoff	_On	Ammeter	Positive	After Landing	
Wing Tip	Check	Starting Engine		Throttle	Idle Check	Flaps	Up
Leading Edge	Check	Throttle	1/4 Inch	Throttle	1000 RPM	Lights	_As Required
Wing Tie Down	Remove	Mixture	Idle Cut Off	Friction Lock	Adjust/Lock	Secure Aircraft	
Main Tire/Brake	Check	Propeller Area	Clear	Radios/Avionics	Set	Lights	Off
Fuel Sumps (5)	Sample	Master Switch	On	Flaps	Set 0° - 10°	Avionics Master	Off
Fuel Quantity	Check	Beacon	On	Lights	As Required	Mixture	Idle Cut Off
Fuel Cap	Secure	**IF ENGINE WARM D	OO NOT PRIME**	Transponder	Set/Altitude	Ignition	Off
				NAV/GPS Switch	Set	Master	Off
				Autopilot	Off	Control Lock	Install
				Brakes	Release		

Hobbs	Record	Master Switch	Off	Engine Fire During Flight	
Doors/Windows	Closed/Locked	Cabin Doors	Unlatch	Mixture	Idle Cut Off
Tie Downs	Secure	Land	Straight Ahead	Fuel Selector Valve	Off
Short Field Takeoff		Engine Failure Flight		Aux Fuel Pump	Off
Flaps	10°	Airspeed	68 KIAS	Master Switch	Off
Taxi	Max Runway	Fuel Shutoff Valve	On	Cabin Heat/Vents	Off
Brakes	Apply	Fuel Selector	Both	Airspeed 100 kts or > to E	extinguish Fire
Throttle	Full Open	Aux Fuel Pump	On	Forced Landing	Execute
Mixture	Rich	Mixture	Rich	Electrial Fire in Flight	
Brakes	Release	Ignition	Both	Master Switch	Off
Lift Off	51 KIAS	Ignition to Start if Prop is	Stopped	Cabin Heat/Vents	Closed
Climb Speed	56 KIAS	Aux Fuel Pump	Off	Fire Extinguisher	Activate
Flaps	Retract	Forced Landing No Power		Avionics Switch	Off
Short Field Landing		Seats/Belts	Adjust/Lock	All Other Switches	Off
Flaps	30°	Airspeed	70 kts-Flaps Up	Ventilate Cabin When Fire	e Is Out
Speed Over Obstacle	e 61 KIAS		65 kts-Flaps Dn	IF FIRE OUT	
Power	Reduce	Mixture	Idle Cut Off	Master Switch	On
Touchdown	Mains First	Fuel Shutoff Valve	Off	Circuit Breakers	Check
Brakes	Apply	Ignition Switch	Off	Do Not Reset Faulted Bre	akers
Flaps	Retract	Flaps	As Required	Radio Switches	Off
Balked Landing		Master Switch	Off	Avionics Switch	On
Throttle	Full Open	Doors	Unlatch	Radios/Electrical	On
Flaps	Retract to 20°	Touchdown	Tail Low	Turn on Switches One at	a Time
Climb Speed	60 KIAS	Brakes	As Needed	Until the Short Circuit Is L	ocalized
Flaps	Retract	Engine Fire On Ground		Low Voltage In Flight	
Engine Failure		Ignition	Cont. Cranking	Avionics Switch	Off
Takeoff Roll		If Engine Starts		Alternator Breaker	Check
Throttle	Idle	Power	1800 RPM	Master Switch	Off (Alternater
Brakes	Apply	After A Few Minutes			Side Only)
Flaps	Retract	Engine	Shut Down	Master Switch	On
Mixture	Idle Cut Off	If Engine Fails to Start		Low Voltage Annunciator	Check Off
Ignition Switch	Off	Throttle	Full Open	Avionics Switch	On
Master Switch	_Off	Mixture	Idle Cut Off	If Low Voltage Illuminate	es Again:
Engine Failure		Cranking	Continue	Alternator	Off
After Takeoff		Fuel Shutoff Valve	Off	Electrical Load	Reduce
Airspeed	70 kts (Flaps Up)	Aux Fuel Pump	Off	Terminate Flight When P	ractical
	65 kts (Flaps Dn)	Fire Extinguisher	Activate	Ammeter Shows Excessive	e Rate of Chg
Mixture	Idle Cut Off	Master Switch	Off	Alternator	Off
Fuel Shutoff Valve	Off	Ignition Switch	Off	Nonessential	
Ignition	Off	Airplane	Evacuate	Electrical Equip	Off
Flaps	As Required	Fire Extinguisher	Activate	Terminate Flight When P	ractical

V Speeds (KIAS)

68

55

48

40

62

67

74

72

110

85

105

98 90

129

163

Vg

Vr

Vs

Vso

Vx (Sea Level)

Vx (10, 000 Ft)

Vy (Sea Level)

Vy (10,000 Ft)

Vfe 10°

20°- 30°

Va 2550

2200

1900

Vno Vne