Cessna 172S		Nose	1	Starting Engine Cold	1	Normal Takeoff	1
N438ER		Engine Oil Level	_ Check	Starting Engine Cold Prime Procedure		Flaps	Set 0° - 10°
Preflight Inspection Cockpit	1	Fuel Sumps (3)	Sample	Aux. Pump on 2-3 se	sconds & Mixtura	Mixture	RICH
Aircraft Docs (AROW)	_ Check	Propeller/Spinner	Check	Rich until fuel flow i		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		Fuel Sumps (5)	Sample	Avionics Master	On	Cruise	
Pitot Heat (if using)		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	As Required
Flaps	Extend	Fuel Vent	Open	Heading Indicator	Set	Lights	As Required
Annunciator Panel	Test	Stall Warning	Open	Weather/ATIS	Obtain	Descent	
Master Switch	Off	Wing Tie Down	Remove	Altimeter	Set	Weather/ATIS	Obtain
Alternate Static Source	Off	Leading Edge	Check	Before Takeoff]	Altimeter	Set
Fuel Selector	Both	Wing Tip	Check	Brakes	Set/Check	Fuel Selector	Both
Fuel Shutoff Valve	On	Aileron	Check	Doors/Windows	Closed/Locked	Power	As Required
Fuselage & Empennage	1	Flap	Check	Seats/Belts	Adjust/Lock	Mixture	Rich
Baggage Door	_ Closed	Main Wheel/Brake	Check	Flight Controls	Free/Correct	Lights	As Required
Horizontal Stabilizer	Check	Before Engine Start		Fuel Selector	Both	Radios/Avionics	Set
Elevator	Check	Preflight	Complete	Fuel Quantity	Check	Before Landing]
Trim Tab	Check	Passenger Brief	Complete	Mixture	RICH	Seats/Seat Belts	Adjust/Lock
Vertical Stabilizer	Check	Seats/Belts	Adjust/LocK	Flight Instruments	Set	Fuel Selector	Both
Rudder	Check	Doors	Closed/Locked	Elevator Trim	Set/Takeoff	Mixture	Rich
Tail Tie Down	Remove	Brakes	Test/Set	Throttle	1800 RPM	Normal Landing	
Antennas	Check	Circuit Breakers	Check In	Magnetos	Check 150/50	Flaps	As Required
Right Wing		Lights/Electrical	Off	Vacuum Gauge	Check	Approach Speed	65-75 Flaps Up
Flap	Check	Avionics Master	Off	Engine Instruments	Check	Approach Speed	60-70 Flaps Dn
Aileron	Check	Fuel Selector	Both	Ammeter	Positive	Brakes	As Required
Wing Tip	Check	Fuel Shutoff	On	Throttle	Idle Check	After Landing	
Leading Edge		Starting Engine	1	Throttle	1000 RPM	Flaps	□ Up
Wing Tie Down	Remove	Throttle	1/4 Inch	Friction Lock	Adjust/Lock	Lights	As Required
Main Tire/Brake	Check	Mixture	Idle Cut Off	Radios/Avionics	Set	Secure Aircraft	
Fuel Sumps (5)	Sample	Propeller Area	Clear	Flaps	Set 0° - 10°	Lights	Off
Fuel Quantity	Check	Master Switch	On	Lights	As Required	Avionics Master	Off
Fuel Cap	Secure	Beacon	On	Transponder	Set/Altitude	Mixture	Idle Cut Off
. ac. cap	Jedare	**IF ENGINE WARM I		NAV/GPS Switch	Set	Ignition	Off
		" LITOME WANTE		Annunciator Panel	Clear	Master	Off
				Brakes	Release	IVIUSTCI	U II
				Dianes	Neicase		

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

V Speeds (KIAS) Vg 6

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 68

55 48

40

62

67

74

72

110

85

105

98 90

129

163