

—INTERIOR PREFLIGHT—

Pitot Tube Cover.....Remove
Certificates and Documents..Check
G1000 Cockpit Reference Guide....
.....Accessible to Pilot
Control Wheel Lock.....Remove
Fuel Selector.....Both
Fuel Shutoff.....On (Full in)
Cabin Air / Heat.....Set
Alternate Static Source.....Off (In)
Mixture.....Idle Cut Off
Throttle.....Idle
Circuit Breakers.....In
Switches.....Off
Interior Lights.....Off
Magnetos.....Off
Avionics Switch.....Off
MASTER Switch.....On
P.F.D.....Verify On
Flaps.....Extend(Check Visually)
FUEL QTY Indicators.....Check
Hobbs and Tach.....Check
GAL REM.....Set for Fuel on Board
LOW FUEL Annunciators...Verify Off
LOW VOLTS Annunciator...Verify On
OIL PRESSURE Annunciator Verify On
LOW VACUUM Annunciator. Verify On
AVIONICS Switch (BUS 1).....On
Forward Avionics Cooling Fan...On
AVIONICS Switch (BUS 1).....Off
AVIONICS Switch (BUS 2).....On
Aft Avionics Cooling Fan.....On
AVIONICS Switch (BUS 2).....Off
Lights and Pitot Heat.....Check
MASTER Switch / All Switches.....Off
Fire Extinguisher...Check Pressure

—EXTERIOR PREFLIGHT—

Fuselage and Windows.....Check
Empennage.....Check
Control Surfaces.....Check
Tail Tie Down.....Remove
Trim Tab.....Check

Antennas.....Check
Windows and Fuselage.....Check
Right Flap and Aileron.....Check
Right Wingtip Condition/Lights Check
Right Wing Lower Surface....Check
Right Wing Leading Edge....Check
Right Wing Tie Down.....Remove
Right Main Gear Assembly..Check
Fuel Sumps (5).....Sample
Fuel Selector Quick Drain...Sample
Fuel Strainer Quick Drain...Sample
Fuel Return Line.....Sample
Exhaust.....Check
Fuel Quantity.....Check
Fuel Filler Cap Secure / Vent Open
Right Wing Upper Surface...Check
Antennas.....Check
Windshield.....Check & Clean
Cowling.....Secure
Oil Quantity6-8 Quarts(Fly at 6 Qts)
Engine Cooling Air Inlets.....Clear
Alternator Belt.....Check
Propeller and Spinner.....Check
Air Filter.....Check
Nose Wheel Strut and Tire...Check
Static Port.....Check
Left Wing Leading Edge.....Check
Pitot Tube.....Check
Stall Warning Opening.....Check
Fuel Tank Vent.....Check
Left Wing Tie Down.....Remove
Landing and Taxi Lights.....Check
Left Wingtip Condition/Lights Check
Left Wing Lower Surface.....Check
Left Aileron and Flap.....Check
Left Main Gear Assembly.....Check
Fuel Sumps (5).....Sample
Fuel Quantity.....Check
Fuel Filler Cap. Secured/Vent Open
Left Wing Upper Surface.....Check
Baggage Door.....Check Locked

—BEFORE START—

Preflight Inspection.....Complete
Seats / Belts.....Adjust and Lock
Empty pilot seat belt.....Unbuckle
Cabin Doors.....Closed
Passengers.....Secured / Briefed
Brakes.....Hold

—ENGINE START—

Mixture.....Idle Cut Off
Throttle.....Open SLIGHTLY
STBY BATT Switch.....Test (Hold for 20
sec.,
.....green test lamp has to stay on)
STBY BATT Switch.....Arm
Engine Indicating System.....Check
MASTER Switch.....On
Beacon.....On
Strobes.....On (As Required)
Navigation Lights. .On (Night Ops.Only)
Mixture.....Rich
(If engine is warm, omit next
three steps)

- Fuel Pump.....On
 - Fuel Flow.....3-5 GPH
 - Fuel Pump.....Off
- Area.....Clear(Visually and Verbally)
Starter.....Engage
Throttle.....1000 RPM
Oil Pressure.....Check
AMPS.....Check Charge
LOW VOLTS Annunciator..Verify OFF
Avionics (BUS 1 and 2).....On

—BEFORE TAXI—

Mixture.....Lean (EGT / RPM)
Flaps.....Up(Check Visually)
Circuit Breakers.....In
AVIONICS.....Set and Check
Altimeter:
PFD (BARO).....Set
Standby Altimeter.....Set
KAP 140 Autopilot (BARO).....Set
G1000 ALT SEL.....Set

KAP 140 Altitude Preselect.....Set
Standby Flt Instruments..Set/Check
Fuel Quantity.....Check
Taxi Area.....Clear
Brakes.....Release

—TAXI—

Brakes.....Check
Flight Instruments.....Check

—BEFORE TAKEOFF—


Brakes.....Hold
Flight Controls.....Free and Correct
Fuel Selector Valve.....Both
Manual Electric Trim (MET).....Test
Autopilot.....Test
Trim.....Set for Takeoff
Mixture.....Rich
Throttle.....1800 RPM
Magnetos.....Check
Max Drop 150 RPM
Max Difference 50 RPM
Amps/Volts.....Check
Vacuum Gauge.....Check
Engine Instruments.....Check
Annunciators.....Clear
Throttle.....Check Idle
Throttle.....1000 RPM
Circuit Breakers.....In
GPS 2 Availability.....Check
Autopilot.....Off
Pitot Heat.....As Required

*Seats / Belts.....Secure
Doors.....Closed & Locked
Flaps.....Set for Takeoff
Flight Instruments....Set and Check
Strobes.....On
Landing Light.....On
Transponder.....Check Code
Mixture.....Rich*

FMS / GPS Flight Plan...As Desired
CDI Softkey.....Select NAV Source
Takeoff Briefing.....Complete

Cessna 172S G1000 Checklist (2/2)

—CLIMB—	
Flaps.....	As Required
Climb Airspeed.....	74 KIAS
At 300 Ft. AGL.....	Flaps Up
Transponder.....	Check ALT Mode
—CRUISE—	
Cruise Power.....	Set (Max 80%)
Mixture.....	Set
Fuel Selector.....	Set
Landing Light.....	Off
Pitot Heat.....	As Required
— DESCENT—	
Seats / Belts.....	Secure
Fuel Selector.....	Both
Mixture.....	Set
Descent Power.....	Set
Pitot Heat.....	As Required
Engine/Flight Instruments.....	Check/Set
Altimeter:	
PFD (BARO).....	Set
Standby Altimeter.....	Set
KAP 140 Autopilot (BARO).....	Set
G1000 ALT SEL.....	Set
KAP 140 Altitude Preselect.....	Set
CDI Softkey.....	Select NAV Source
Avionics.....	Set and Check
Approach Briefing.....	Complete
—BEFORE LANDING—	
Seats / Belts.....	Secure
FUEL SELECTOR.....	Both
Mixture.....	Rich
Landing Light.....	On
Magnetos.....	Both
Engine Gauges.....	Check
Autopilot.....	Off
—AFTER LANDING—	
Mixture.....	Lean (EGT / RPM)
Transponder.....	Check GND Mode
Flaps.....	Up
Landing Light.....	Off
Lights.....	As required
Trim.....	Set For Takeoff
Flight Plan.....	Close

—SHUTDOWN—	
AVIONICS Master.....	Off
Mixture.....	Idle Cut Off
Magnetos.....	Off
All Switches/Lights.....	Off
MASTER Switch.....	Off
Hobbs and Tach.....	Record
STBY BATT Switch.....	Off
Fuel Selector.....	Left or Right
Control Lock.....	Install
Seat Belts.....	Leave unbuckled
Doors.....	Lock
Cowl Plugs/Pitot Cover.....	Install
Aircraft.....	Tie Down
—V-SPEEDS—	
V _r	55-60 KIAS
V _{SO}	40 KIAS
V _{S1}	48 KIAS
V _X	62 KIAS
V _Y	74 KIAS
V _{FE}	110 KIAS (10°)
.....	85 KIAS (20°-30°)
V _A	105 KIAS @ 2550 lbs.
.....	98 KIAS @ 2200 lbs.
.....	88 KIAS @ 1900 lbs.
V _{NO}	129 KIAS
V _{NE}	163 KIAS
Best Glide.....	68 KIAS
Oil.....	Min. 6 Max. 8 qt.
Max. Takeoff.....	2550 lbs.
Max. Landing Weight.....	2550 lbs.
	
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—ENGINE FAILURES—	
—DURING TAKEOFF ROLE—	
THROTTLE.....	Idle (Full out)
Brakes.....	Apply
Wing Flaps.....	Retract
MIXTURE.....	Idle Cut Off
Magnetos.....	Off
STBY BATT Switch.....	Off
Master Switch.....	Off
— IMMEDIATELY AFTER TAKEOFF—	
Airspeed.....	70 KIAS-Flaps Up
.....	65 KIAS-Flaps 10-Full
Mixture.....	Idle-Cutoff
Fuel Shutoff.....	Off
Magnetos.....	Off
WING FLAPS.....	As Required(30
Recommended)	
STBY BATT Switch.....	Off
Master Switch.....	Off
CABIN DOOR.....	Unlatched
Land.....	Straight Ahead
—RESTART PROCEDURE—	
AIRSPEED.....	68KIAS (Best Glide)
Fuel Shutoff.....	On (Push Full In)
Fuel Selector.....	Both
Fuel Pump.....	On
Mixture.....	Rich
Magnetos.....	Both
.....	(Start if Propeller not spinning)
Fuel Pump.....	Off
.....	Unless fuel pressure drops to Zero
—FORCED LANDINGS—	
—WITHOUT ENGINE POWER—	
Transponder.....	7700
Radio(s).....	121.5 (if time permits)
SEAT BACKS.....	Most Upright Position
Seats and Belts.....	Secure
Airspeed.....	70 KIAS-Flaps Up
.....	65 KIAS-Flaps 10-Full
Place to Land.....	Pilot Option
MIXTURE.....	Idle Cut Off
Fuel Shutoff.....	Off (Pull Full Out)
Magnetos.....	Off
WING FLAPS.....	As Required(30
Recommended)	
STBY BATT Switch.....	Off
Master Switch.....	Off(When Landing Assured)
DOORS.....	Unlatch
Touch Down.....	Tail Low
Brakes.....	Apply Heavily

—FIRES—	
—DURING ENGINE START—	
MAGNETO.....	Start
.....(Continue Cranking to start engine)	
If Engine Starts:	
POWER.....	1800 RPM (For few Minutes)
ENGINE.....	Shutdown
If Engine Fails to Start:	
Throttle.....	Full Open
MIXTURE.....	Idle Cut Off
MAGNETO.....	Start (Continue Cranking)
Fuel Shutoff.....	Off (Pull Full Out)
Fuel Pump.....	Off
Magnetos.....	Off
STBY BATT Switch.....	Off
Master Switch.....	Off
ENGINE.....	Secure
Parking Break.....	Release
Fire Extinguisher.....	Obtain
AIRPLANE.....	Evacuate
Fire.....	Extinguish
—ENGINE FIRE IN FLIGHT—	
MIXTURE.....	Idle Cut Off
Fuel Shutoff.....	Off (Pull Full Out)
Fuel Pump.....	Off
STBY BATT Switch.....	Off
Master Switch.....	Off
Cabin Heat/airOff(Except overhead vents)	
AIRSPEED.....	100KIAS
.....	(Or Faster To put out Fire)
Forced Landing.....	Execute
—ELECTRICAL FIRE IN FLIGHT—	
STBY BATT Switch.....	Off
Master Switch.....	Off
Cabin Heat/air/Vents.....	Closed
Fire Extinguisher.....	Activate
Avionics Master.....	Off
All Switches(Except Magneto).....	Off
Cabin Heat/air/ventsOpen(When Fire Out)	
If Power is Needed:	
Circuit breakers.....	Check for Open
.....(Do not Reset)	
Master Switch.....	On
Avionics Bus 1.....	On
Avionics Bus 2.....	On
Always Check POH For Other	
Emergency Checklists	
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