

POH/AFM takes priority over this checklist.

CESSNA 172S G1000 KAP140 A/P

NORMAL OPERATIONS

EMERGENCY PROCEDURES (REVERSE)

Updated September 9th, 2022 (Rev. 12-C)

RUNWAY ENTRY

Time for Lights, Camera, Action, Traffic

Timer		START
Lights	LANDING & STROI	BES ON
Transponder	VERIFY CC	DE/ALT
Mixture		RICH
	VERIFY RWY/APCH	
Runway Number	·C0	ONFIRM
Heading/Compa	ss MATCHE	ES RWY

NORMAL TAKEOFF

Flaps	0°-10°
Throttle	FULL
Engine Instruments.	"GREEN"
Engine RPM	. AT LEAST "2300 RPM"
	"ALIVE"
Rotate	55 KIAS "ROTATE"
Climb	75 KIAS

SHORT FIELD TAKEOFF

Flaps	109
Brakes	HOLD
Throttle	FULL
Engine Instruments" "G	REEN
Engine RPM AT LEAST "2300	RPM'
BrakesRE	LEASE
Airspeed""".	ALIVE
Rotate 50 KIAS "RO	DTATE
Climb5	6 KIAS
Obstacle CLI	EARED
Flaps	UF
Climb 7	5 KIAS

SOFT FIELD TAKEOFF

Flaps	10'
Brakes	NONE
Control Wheel	FULL AF1
Throttle	SLOWLY ADVANCE FULL
Engine Instrumen	ts"GREEN
Engine RPM	AT LEAST "2300 RPM"
Airspeed	"ALIVE
Main Gear	LIFT OFF
Ground Effect	MAINTAIN TO 60 KIAS
Flaps	UF
Climb	75 KIAS

AFTER TAKEOFF (400' AGL)

Airspeed	85 KIAS
Flaps	UP
Engine Instruments	GREEN
Landing/Taxi Light	AS REQ'D

CRUISE

I hrottle	2300-2400 RPM
Trim	AS REQUIRED
Engine Instruments	CHECK
Mixture	LEAN AS REQUIRED
FGT 50°F/30°	C Rich of Peak

PRE-MANEUVER CHECKS

Clear the area	CHECk
HeadingESTA	ABLISHED & BUGGED
AltitudeESTA	ABLISHED & BUGGED
Place to land	CHECk
Set Power & Config	CHECk
 Fuel Selector 	BOTH
 Mixture 	RICH
 Lights 	ON

DESCENT / APPROACH

ATIS/AWOS

,	
Altimeters	SET
PFD, Standby, I	KAP140 A/P
Clearance	OBTAIN
Radios/GPS	TUNE/IDENT
Approach Briefing	COMPLETE
Fuel Selector	BOTH
Lights	AS REQUIRED
Mixture	

PRE-LANDING

Fuel Selector	BOTH
Mixture	RICH
Lights	AS REQUIRED
Flaps	AS REQUIRED
Seatbelts	FASTENED

NORMAL LANDING

Flaps	FULL
Airspeed	65 KIAS
Touch Down	MAIN WHEELS FIRST
Brakes	MINIMUM REQUIRED

SHORT FIELD LANDING

Flaps	FULL
Airspeed	60 KIAS
Touch Down	MAIN WHEELS FIRST
Flaps	UF
Brakes	MAXIMUN
Control Wheel	FULL AFT

SOFT FIELD LANDING

Flaps	FULL
Airspeed	65 KIAS
Touch Down	NOSE HIGH WITH PWR
Brakes	NONE
Control Wheel	FULL AFT

AFTER LANDING

Flaps	UP
Mixture	LEAN 1"
Elevator Trim	SET FOR TAKEOFF
Lights	LANDING / STROBES OFF
Radios	CONTACT GND / CALL CLR
Flight Plan	CLOSE IF REQ'D

SHUTDOWN / SECURE Brakes AS REQUIRED

Avionics Master OFF

Mixture	IDLE/CUTOFF
Wait for engir	ne to shut off
Magnetos	OFF / REMOVE KEY
Tach Time	RECORD
Standby Batt	OFF
Master Switch	OFF
Fuel Selector	LEFT OR RIGHT
Control Wheel Lock	
Aircraft	TIE DOWN
Windshield	CLEAN AS REQ'D
Chocks	AS REQ'D
Aircraft Log	COMPLETE
Cowl Plugs/Covers	INSTALLED

SPEEDS

55	KIAS
62	KIAS
74	KIAS
85	KIAS
105 / 90	KIAS
48	KIAS
40	KIAS
95	KIAS
85	KIAS
75	KIAS
65	KIAS
68	KIAS
NM / 100	0 FT.
	62 74 85 105 / 90 48 40 95 75 65 68

FREQUENCIES

Potomac Approach	
Potomac (SFRA West)	127.325
Potomoc	128.525
KHEF (Manassas)	

ATIS	125.175
Tower	
Ground	121.8

KCJR (Culpeper)	
AWOS 119.32	
CTAE 123.07	

CSN (Casanova VORTAC)	
CSN	116.30

V. 11. 11. 11. 11.		E	PREPARE TO EXIT	ELECTRIC	CAL FIRE	IN FLIGHT
Yellow highlighted items are i items that should be commit		Fuel Shutoff Valv	ePULL OUT			OFF
items that should be commit	ited to memory.	Mixture	OFF	Vents/Cabin Air	/Heat	OFF
ENGINE FIRE BURN	NO CTART	Mags				ACTIVATE
ENGINE FIRE DURI			OFF			OFF
Cranking	CONTINUE	Master Switch	OFF WHEN ABLE	All Other Switch	es	OFF
If Engine Starts			UNLATCH			VENTILATE
Throttle 1800 R		Passenger Brief	COMPLETE			ON
EngineSHUTDOW	N AND INSPECT	ENGINE E	IRE IN FLIGHT			CHECK
If Engine Fails To Start			IDLE CUTOFF			ON
Throttle	FULL OPEN		PULL OUT	Electrical Equip	OI	N ONE AT A TIME
Mixture	IDLE CUTOFF		OFF	PFD1 O	R MFD1 C	OOLING
Cranking			OFF		NUNCIAT	
Fuel Shutoff Valve	PULL OUT	Airspeed	INCREASE / 100+ KIAS			REDUCE
Fire Extinguisher		Forced Landing	EXECUTE			L FOR AIRFLOW
EngineMASTER AN		0.11	AIN FIRE	Fon hoo Foile	.i	
Aircraft			BIN FIRE	Fan has Faile		OEE
Fire			OFF			OFF
Damage	INSPECT		owsCLOSEDACTIVATE			Off in 3 min
ENGINE FAILURE I	PRIOR TO		VENTILATE	Land	AS SOOI	N AS PRACTICAL
TAKEOFF			AS SOON AS POSSIBLE	LIGHT O	CNALS (GROUND)
Throttle		Edita			•	STEADY GREEN
Brakes		WII	NG FIRE			ASHING GREEN
Flaps		Nav Lights				STEADY RED
Mixture		Pitot Heat		•		FLASHING RED
Ignition Switch	OFF	Strobe Lights	OFF			nt
Radio Call	IF ABLE	Side slip to keep flan	nes away from the fuel tank			LASHING WHITE
Standby Battery			possible. Only use flaps as			aution
Master Switch	OFF	required for final a	pproach and touchdown	ALT	ERNATING I	RED AND GREEN
ENGINE FAILURE IM	MEDIATELY	EVOCECIVE A	MMETER CHARCE			(=, , , , , , , , , , , , , , , , , , ,
AFTER TAKE			MMETER CHARGE		IGNALS	
			Only)OFF REDUCE AS FOLLOWS			STEADY GREEN
Airspeed Flaps Up Airspeed Flaps Down			OFF			ASHING GREEN
Landing Site			OFF			STEADY REDFLASHING RED
Mixture			TUNE TO ACTIVE			aution
Fuel Shutoff Valve			OFF EXC. IN CLOUDS			RED AND GREEN
Ignition Switch	OFF	Land A	AS SOON AS PRACTICAL			KED / II ID ONLEEN
Flaps				POV	/ER SETT	INGS
Radio Call			ANNUNCIATOR	Climb		FULL POWER
Standby Battery	OFF		1000 RPM			2300-2400 RPM
Master Switch			OFF			2100 RPM
Doors	UNLATCH		eaker CHECK IN			1800 RPM
ENGINE FAILURE	DUDING		ON			1500 RPM
ENGINE FAILURE FLIGHT	DORING	Ammeter				2100 RPM
A	AIDSDEED		CHECK 27.5 MIN CHECK CHARGING (+)			1500 RPM
3 turns nose-up trim, 68 k		If Amp Discharge Re	` '			
			Only) OFF	PIVO	TAL ALTI	TUDE
BBEST PL	ACE TO LAND		REDUCE AS FOLLOWS			Approximate
C	CHECKLIST		OFF	Groundspeed		Pivotal
Fuel Selector			OFF			Altitude
Fuel Shutoff Valve	FULL IN	•	TUNE TO ACTIVE	Knots	MPH	
Mixture	RICH	Avionics Master	OFF EXC. IN CLOUDS	87	100	670
Throttle		Land	AS SOON AS PRACTICAL	91	105	735
Mags	L/R/BOTH	ALD DATE	ALIDO OVOTELA	96	110	810
D	DECLARE		AHRS SYSTEM	100	115	885
Mayday		FAILURE (I	RED X ON PFD)	104	120	960
Squawk		Check ADAHRS Circ	uit Breakers and Reset. If it	109	125	1050
			ot reset and use standby	113	130	1130
		ins	truments.			



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PREFLIGHT CHECKLIST

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COCKPIT S.	AFETY CHECK
Magnetos	OFF, KEY OUT
Mixture	IDLE CUTOFF
Throttle	CLOSED

Aircraft Cover	REMOVE
Cowl Plugs	REMOVE
Pitot Tube Cover	REMOVE
Chocks	REMOVE
Engine Preheat	BELOW 0 °C/32 °F
Wings	CHECK FOR ICE/FROST

CABI	
Keys	PLACE ON DASH
Documents	S.P.A.(R.)R.O.W.
Supplements	CHECK
G1000 Manual	
Placards	
Airworthiness Cert	
Radio Station Lic	
Registration	
P.O.H/A.F.M	
W&B Info	
Hobbs Meter	
Fire Extinguisher	
Control Wheel Lock	
Ignition Switch	
Avionics (Bus 1 & Bus 2)	
Master Switch	
PFD	
Fuel Quantity	
LOW FUEL L & R Annun .	
OIL PRESS Annun	
LOW VACUUM Annun	
Avionics BUS 1	
Avionics BUS 2	
Alternate Static Source	
Fuel Selector	
Fuel Shutoff Valve	
Elevator Trim	
Flaps	
Pitot Heat	
Exterior Lights	
Master Switch	OFF

LEFT WING	;
Door Pins	INSPECT
Cabin Vents and Inlets	INSPECT
Leading Edge	INSPECT
Wing Tie Down	REMOVE
Main Gear/Tire/Brakes	INSPECT
Pitot TubeCHEC	K UNBLOCKED
Stall HornCHEC	
Fuel Vent CHEC	K UNBLOCKED
Wing Tip/Nav Lights	INSPECT
Left Aileron	
Hinges (x3) E	BOLTS SECURE
Weights	INSPECT
Static Wicks (x2)	INSPECT
Flaps	
Rod	INSPECT

EMDENNACE

EMPENNAG	-
Baggage Door	LOCKED
A/P Static PortCHECH	K UNBLOCKED
Skin and Rivets	INSPECT
Vertical Stabilizer	INSPECT
Left Horizontal Stabilizer	INSPECT
Left Elevator	INSPECT
Weight	SECURE
Hinges	
Cables	
Static Wicks	` ,
Rudder	INSPECT
Hinges	
Cables	
Static Wicks	, ,
Tail Tie Down	
Right Elevator	
Cables	
Trim Tab	
Hinges	
Weight	
Static Wicks	
Right Horizontal Stabilizer	
Antennas	
Underside	INSPECT

RIGHT WING	
Door Pins	INSPECT
Cabin Vents and Inlets	INSPECT
Leading Edge	INSPECT
Wing Tie Down	REMOVE
Main Gear/Tire/Brakes	INSPECT
Wing Tip/Nav Lights	INSPECT
Right Aileron	
Hinges (x3)	BOLTS SECURE
Weights	INSPECT
Static Wicks (x2)	INSPECT
Flaps	INSPECT
Rod	INSPECT

NOSE AND COWLING	
Windshield	CLEAN
3.1 <u>2</u> 0.7 3.	CHECK
Cold: ≥ 6 Qts, Warm: ≥ 5 1/2 Qts	
\leq 10 hrs to mx: \geq 5 Qts	
Do Not Over Tighten Oil Cap	
Oil Access Door	ECURE
Engine Cowling S	ECURE
No Consecutive Fasteners Missing	
Prop/SpinnerIN	ISPECT
No Cracks, No Screws Missing	
Cowling Inlets	CHECK
Alternator BeltCHECK TE	NSION
Air Filter	CHECK
Exhaust CHECK FOR C	RACKS
Nose Gear/Tire/StrutIN	ISPECT
Static PortCHECK UNBL	OCKED

FINAL CHECK		
Fuel Sumps	DRAIN	
Left Wing (5)	DRAIN	
Right Wing (5)	DRAIN	
Cowling (3)	DRAIN	
Fuel Quantity	VISUAL CHECK	
Fuel Caps		
Last 360° Walk Around	d COMPLETE	
Chocks	CONFIRM REMOVED	
Tie Downs	CONFIRM REMOVED	
Cowl Plugs	CONFIRM REMOVED	
Pitot Cover	CONFIRM REMOVED	
Preflight	COMPLETE	

PERSONAL CHECKLIST

PAVE to perceive hazards	
Pilot	CHECK
Experience/recency	CHECK
 Physical condition 	SEE IMSAFE
Aircraft	CHECK
Fuel reserves	CHECK
 Performance 	CHECK
Equipment	CHECK
EnVironment	CHECK
 Weather 	CHECK
External Pressures	CHECK
INCAFFA, also also de la laboración de	n alitia n

IMSAFE to check pilot phys	. condition
Injury	
Medication	CHECK
Stress	CHECK
Alcohol	CHECK
Fatigue	CHECK
Emotion	CHECK

PASSENGER BRIEF	AFTER START	TAKEOFF BRIEF
S - SeatbeltsUSAGE		Conditions
Fastened during taxi, takeoff, landing.	Avionics (Bus 1 and Bus 2)ON	Weather (Wind, Ceilings, Etc.)
Recommended always.	MFD Database CHECK DATES	Hazards
A – Air ventsUSAGE	Aux Status Pg CHECK NO X'S	Weather, Terrain, Wildlife, Traffic, etc.
Sick? Loosen clothing, use air, look at point on	Engine System Pg SET GAL REM	Runway
horizon. Location of sick sacks.	RadiosTUNE, GET ATIS/AWOS	Number (L/R), Length
F – Fire extinguisherUSAGE	Altimeters	Return/Emergency Procedures
P – Pull pin	PFD, Standby, KAP140 A/P	Before Rotation
A – Aim at base of fire	Heading Indicator BUG WIND	
S – Squeeze	Clearance OBTAIN	After Rotation w/ Sufficient RwyBelow 1000' AGL
S – Sweep	Transponder	
E - ExitsLOCATION/USAGE	G1000 Alt Sel SET	Above 1000' AGL Fotoblish DIC in amorganov
T – Traffic EXPLAIN	KAP140 Alt Sel SET	Establish PIC in emergency Take off (Priof)
Clock Position / Who's looking	FMS/GPS Flight Plan SET	Takeoff (Brief)
Y - Yak (Sterile Cockpit)	FIVIS/GFS FIIgHT FIGHT SET	Normal, Short, Soft? From Divinion.
No extraneous conversation under cruise or	TAXI	• From Runway
10,000' MSL (whichever is lower)	Taxi AreaCLEAR	Wind speed and direction
Y – Yoke	Brakes	Speeds: rotate, initial/enroute climb
3 way positive exchange of flight controls.	Check for dip in Attitude Indicator	Departure (Brief)
Stay clear of active flight controls.	ControlsPOSITION FOR WIND	RUNWAY ENTRY
Y – Any questions?	Flight Instruments CHECK IN TURNS	
BEFORE START	g modamono Or izorcina ronno	Time for Lights, Camera, Action, Traffic Timer START
	ENGINE RUNUP	
Preflight	AircraftPOSITION INTO WIND	Lights LANDING & STROBES ON
Passenger Briefing	Parking BrakeSET	TransponderVERIFY CODE/ALT
Seats and BeltsADJUSTED/LOCKED	Seats and Seat BeltsSECURE	Mixture
Fuel Selector Valve	Cabin Doors	TrafficVERIFY RWY/APCH CLEAR
Avionics Master Switch OFF	Flight Controls FREE & CORRECT	Runway Number
Brakes TEST AND SET	Flight Instruments CHECK NO X'S	Heading/Compass MATCHES RWY
Test both sides and look for drips.	Standby Flight Instruments CHECK	NORMAL TAKEOFF
Circuit Breakers CHECK IN Beacon ON	Fuel QuantityCHECK	
	Fuel Selector Valve RECHECK BOTH	Flaps
Nav Lights ON AT NIGHT/IFR	M.E.T Left Switch TEST	Throttle
ENGINE START	Verify Trim Wheel Does Not Move	Engine Instruments
MixtureIDLE CUTOFF	M.E.T Right SwitchTEST	Engine RPM AT LEAST "2300 RPM"
	Verify Trim Wheel Does Not Move	Airspeed"ALIVE"
Throttle	Verify P.T. Annun. On A/P Within 5 Secs	Rotate 55 KIAS "ROTATE"
Stby Batt SwitchTEST Hold for 10 seconds	M.E.T Both Switches TEST	Climb 75 KIAS
verify green test lamp does not extinguish	Verify Trim Moves Correctly and	SHORT FIELD TAKEOFF
Stby Batt Switch ARM	no Trim Movement With A/P Disco. Btn	
Verify that PFD comes on	A/P ON	Flaps
Engine Indicating SystemCHECK	A/P Hdg Mode TEST	Brakes HOLD
Verify no red X's through engine page	A/P V/S Mode TEST	Throttle FULL
Bus E Volts23.5 VOLTS MIN.	YokeOVERPOWER	Engine Instruments"GREEN"
M Bus Volts 1.5V OR LESS	A/P Disco. BtnPRESS	Engine RPM AT LEAST "2300 RPM"
Batt S Amps DISCHARGE (NEG)	Verify A/P Off and Disconnect Sound	Brakes RELEASE
Stby Batt Annunciator VERIFY ON	Elevator Trim SET FOR TAKEOFF	Airspeed"ALIVE"
Master Switch ON	Throttle1800 RPM	Rotate 50 KIAS "ROTATE"
Prime Engine for Cold Start or as reg'd	MagnetosR, B, L, B	Climb56 KIAS
	Drop less than 150 and 50 between mags	Obstacle CLEARED
Fuel PumpON MixturePRIME	VAC IndicatorsCHECK	
Rich 3-5 secs, then Cutoff. Verify Fuel Flow	Engine Indicators CHECK	Climb 75 KIAS
Fuel Pump OFF	Ammeters & VoltmetersCHECK	
•	Annunciators CHECK	SOFT FIELD TAKEOFF
Prop AreaCLEAR	Throttle CHECK IDLE	Flaps 10°
Ignition SwitchENGAGE	Throttle800 RPM	Brakes NONE
Do NOT Crank for > 10 secs. Allow 20 secs	Throttle Friction LockADJUST	Control WheelFULL AFT
between start attempts!	Radios SET	Throttle SLOWLY ADVANCE FULL
Mixture ADVANCE SMOOTHLY	FMS/GPS Flight PlanVERIFY	Engine Instruments" "GREEN"
When Engine Catches	2nd Radio 121.5	Engine RPM AT LEAST "2300 RPM"
Throttle	XPDRVERIFY CODE/ALT	Airspeed"ALIVE"
Oil Pres ABOVE RED LINE (30 SEC)	CDI Softkey SELECT NAV SOURCE	Main GearLIFT OFF
Amps (M Batt & Batt S)POSITIVE	Wing FlapsSET	Ground Effect MAINTAIN TO 60 KIAS
Low Volts AnnunVERIFY OFF	Cabin Windows	Flaps UP
MixtureLEAN 1"	Brakes	Climb 75 KIAS