

POH/AFM takes priority over this checklist.

CESSNA 172S G500/G3X KAP140 A/P

NORMAL OPERATIONS

EMERGENCY PROCEDURES

(REVERSE)

Updated September 9th, 2022 (Rev. 10-B)

RUNWAY ENTRY

Time for Lights, Camera, Action, Traffic

Timer	STAR1
Lights	LANDING & STROBES ON
Transponder	VERIFY CODE/ALT
Mixture	RICH
Traffic	VERIFY RWY/APCH CLEAF
Runway Numbe	rCONFIRM
Heading/Compa	ass MATCHES RWY

NORMAL TAKEOFF

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

SHORT FIELD TAKEOFF

0	
Flaps	10°
Brakes	HOLD
Throttle	FULL
Engine Instruments	"GREEN"
Engine RPMA	AT LEAST "2300 RPM"
Brakes	RELEASE
Airspeed	"ALIVE"
Rotate	50 KIAS "ROTATE"
Climb	56 KIAS
Obstacle	CLEARED
Flaps	UP
Climb	75 KIAS

SOFT FIELD TAKEOFF

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

AFTER TAKEOFF (400' AGL)

Airspeed	75 KIAS
Flaps	UP
Engine Instruments	
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

CHECK
ESTABLISHED & BUGGED
. ESTABLISHED & BUGGED
CHECK
fig CHECK
BOTH
RICH
ON

DESCENT / APPROACH

ATIS/AWOS	CHECK
Altimeters	SET
PFD, Standby,	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
_ights	AS REQUIRED
-laps	AS REQUIRED
Seatbelts	FASTENED

NORMAL LANDING

⊦ıaps	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	UP
Brakes	MAXIMUM
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 engine	to shut off
Magnetos	OFF / REMOVE KEY
Master Switch	OFF
Fuel Selector	LEFT OR RIGHT
Control Wheel Lock	INSTALLED
Aircraft	TIE DOWN
Windshield	CLEAN AS REQ'D
Chocks	AS REQ'D
Aircraft Log	COMPLETE
Cowl Plugs/Covers	INSTALLED

SPEEDS

OI LLDO	
V _R	55 KIAS
V _X	62 KIAS
V _Y	74 KIAS
V _{FE}	85 KIAS
V _A (2550/1900 lb)105	5 / 90 KIAS
V _S	48 KIAS
V _{SO}	40 KIAS
Pattern	95 KIAS
Abeam Numbers	85 KIAS
Base	75 KIAS
Final	65 KIAS
V _G	68 KIAS
Glide distance 1.5 NM	/1000 FT

FREQUENCIES

Potomac (SFRA West)	
KHEF (Manassas) ATIS	133.1
KHWY (Warrenton) AWOSCTAF	120.35 122.70
KCJR (Culpeper) AWOS	119.32 123.07

CSN 116.30

CSN (Casanova VORTAC)

					0.00	
ENGINE FIRE D			E IN FLIGHT	ADAHR	S SYSTEM I	-AILURE
Cranking	CONTINUE	Mixture		Check ADAHRS	Circuit Breaker	s and Reset. If it
If Engine Starts		Fuel Shutoff Valve		Opens again,	do not reset and	d use standby
Throttle18	ROO DDM FOR 20 SEC	Master Switch	OFF		instruments.	•
EngineSHUT		Cabin Heat and Air				
	DOWN AND INSI LOT	AirspeedII	NCREASE / 100+ KIAS	LIGHT S	IGNALS (G	ROUND)
If Engine Fails To Start		Forced Landing	EXECUTE	Cleared for Take	eoff S	TEADY GREEN
Throttle	FULL OPEN			Cleared to Taxi	FLA	SHING GREEN
Mixture	IDLE CUTOFF	CABIN	N FIRE	Stop		STEADY RED
Cranking	CONTINUE	Master Switch	OFF	Taxi clear of run	ıway	FLASHING RED
Fuel Shutoff Valve	PULL OUT	Air Vents and Windows	CLOSED	Return to airpor	t starting point	·
Fire Extinguisher	OBTAIN	Fire Extinguisher	ACTIVATE			ASHING WHITE
EngineMASTE		Cabin	VENTILATE	General Warnin	g, Exercise Ca	ution
Aircraft	EVACUATE	Land AS			•	D AND GREEN
Fire	EXTINGUISH					
Damage	INSPECT	WING	FIRE	LIGHT	SIGNALS (F	LIGHT)
		Nav Lights	OFF	Cleared to Land	d	TEADY GREEN
ENGINE FAILU	IRE PRIOR TO	Pitot Heat	OFF	Return to Land	FLA	SHING GREEN
TAKE	OFF	Strobe Lights	OFF	Give way and C	ircle	STEADY RED
Throttle		Side slip to keep flames	away from the fuel tank	Do not land		
Brakes			ssible. Only use flaps as	General Warnin		
Flaps		required for final appl	•		0.	D AND GREEN
Mixture						
Ignition Switch		EXCESSIVE AMI	METER CHARGE	POV	VER SETTII	NGS
Radio Call		Master Switch (Alt Onl	y)OFF	Olimala		ELILL DOWED
Master Switch		Electrical LoadR	EDUCE AS FOLLOWS	Climb		
		Pitot Heat	OFF	Cruise		
ENGINE FAILURI	E IMMEDIATELY	All Lights	OFF	Descent		
AFTER T		Comm 1 and Nav 1		Precision Appro		
Airspeed Flaps Up		Avionics Master	OFF EXC. IN CLOUDS			1500 RPM
Airspeed Flaps Down		Land AS				2100 RPM
Landing Site				Abeam Numbe	rs	1500 RPM
		LOW VOLTS A	NNUNCIATOR	V // / / / / /		P. 1
Mixture	IDLE CUTOFF				ted items are im	
Mixture Fuel Shutoff Valve	PULL OUT	ABOVE 1	000 RPM		ted items are impuld be committe	
Mixture Fuel Shutoff Valve Ignition Switch	DLE CUTOFF PULL OUT OFF	ABOVE 10 Master (ALT Only)	000 RPM OFF	items that sho	ould be committe	ed to memory.
Mixture Fuel Shutoff Valve Ignition Switch Flaps	DLE CUTOFFPULL OUTOFFAS REQUIRED	ABOVE 1 Master (ALT Only) Alternator Circuit Breal	000 RPM OFF ker CHECK IN	items that sho		ed to memory.
Mixture	IDLE CUTOFF	Master (ALT Only) Alternator Circuit Break Master Switch	000 RPM OFF Ker CHECK IN ON	items that sho	ould be committe	ed to memory.
Mixture	IDLE CUTOFF	Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter	000 RPM OFF cer CHECK IN ON CHECK	PIVC	ould be committe	UDE Approximate
Mixture	IDLE CUTOFF	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter BATT Volts	000 RPM OFF KET CHECK IN ON CHECK CHECK	items that sho	ould be committe	UDE
Mixture Fuel Shutoff Valve Ignition Switch Radio Call Master Switch Doors	IDLE CUTOFF PULL OUT OFF AS REQUIRED IF ABLE OFF UNLATCH	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter BATT Volts	000 RPM OFF KET	PIV(Groundspeed	OTAL ALTIT	UDE Approximate Pivotal
Mixture	IDLE CUTOFF	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter BATT Volts Ammeter If Amp Discharge Rem		PIVC Groundspeed Knots	OTAL ALTIT MPH	UDE Approximate Pivotal Altitude
Mixture		ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter BATT Volts Ammeter CIf Amp Discharge Rem Master Switch (ALT Or	000 RPM OFF KEY CHECK IN ON CHECK CHECK 27.5 MIN CHECK CHARGING (+) ains oly)	PIVC Groundspeed Knots 87	DTAL ALTIT MPH 100	UDE Approximate Pivotal Altitude 670
Mixture		ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter BATT Volts Ammeter Off Amp Discharge Rem Master Switch (ALT Or Electrical Load	OOO RPM OFF KEY	PIVC Groundspeed Knots 87 91	DTAL ALTIT MPH 100 105	Approximate Pivotal Altitude 670 735
Mixture	IDLE CUTOFF	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter BATT Volts Ammeter If Amp Discharge Rem Master Switch (ALT Or Electrical Load	OOO RPM OFF KEY	FIVE Groundspeed Knots 87 91 96	MPH 100 105 110	Approximate Pivotal Altitude 670 735 810
Mixture	IDLE CUTOFF	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter BATT Volts Ammeter	OOO RPM OFF KEY CHECK IN ON CHECK CHECK 27.5 MIN CHECK CHARGING (+) ains hly)	FIVE Groundspeed Knots 87 91 96 100	MPH 100 115 110 115	Approximate Pivotal Altitude 670 735 810 885
Mixture	IDLE CUTOFF	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter BATT Volts Ammeter Off Amp Discharge Rem Master Switch (ALT Or Electrical Load	OOO RPM OFF KEY CHECK IN ON CHECK CHECK 27.5 MIN CHECK CHARGING (+) ains oly)	FIVE Groundspeed Knots 87 91 96	MPH 100 105 110	Approximate Pivotal Altitude 670 735 810
Mixture	IDLE CUTOFF	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter BATT Volts Ammeter CIf Amp Discharge Rem Master Switch (ALT Or Electrical Load Pitot Heat	OOO RPM OFF KEY CHECK IN ON CHECK CHECK 27.5 MIN CHECK CHARGING (+) ains oly) OFF EDUCE AS FOLLOWS OFF TUNE TO ACTIVE OFF EXC. IN CLOUDS	FIVE Groundspeed Knots 87 91 96 100	MPH 100 115 110 115	Approximate Pivotal Altitude 670 735 810 885
Mixture	IDLE CUTOFF INTERPOLATION IDLE CUTOFF INTERPOLATION IDLE CUTOFF IDLE OUT INTERPOLATION INTERPOLATION IDLE CUTOFF INTERPOLATION I	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter BATT Volts Ammeter Off Amp Discharge Rem Master Switch (ALT Or Electrical Load	OOO RPM OFF KEY CHECK IN ON CHECK CHECK 27.5 MIN CHECK CHARGING (+) ains oly) OFF EDUCE AS FOLLOWS OFF TUNE TO ACTIVE OFF EXC. IN CLOUDS	FIVE Groundspeed Knots 87 91 96 100 104	MPH 100 105 110 115	Approximate Pivotal Altitude 670 735 810 885 960
Mixture	IDLE CUTOFF INTERPOLATION IDLE CUTOFF INTERPOLATION IDLE CUTOFF IDLE OUT INTERPOLATION IDLE CUTOFF INTERPOLATION INTERPOLATION IDLE CUTOFF INTERPOLATION INTER	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter BATT Volts Ammeter CIf Amp Discharge Rem Master Switch (ALT Or Electrical Load Pitot Heat	OOO RPM OFF KET	FIVE Groundspeed Knots 87 91 96 100 104 109	MPH 100 105 110 115 120 125	Approximate Pivotal Altitude 670 735 810 885 960 1050
Mixture	IDLE CUTOFF PULL OUT OFF AS REQUIRED IF ABLE OFF UNLATCH URE DURING HT AIRSPEED A68 KIAS T PLACE TO LAND CHECKLIST BOTH FULL IN RICH	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter BATT Volts Ammeter Pitch (ALT Or Electrical Load Pitot Heat All Lights Comm 1 and Nav 1 Avionics Master Land	OOO RPM OFF KEY	FIVE Groundspeed Knots 87 91 96 100 104 109	MPH 100 105 110 115 120 125	Approximate Pivotal Altitude 670 735 810 885 960 1050
Mixture	IDLE CUTOFF PULL OUT OFF AS REQUIRED IF ABLE OFF UNLATCH URE DURING HT AIRSPEED 1, 68 KIAS T PLACE TO LAND CHECKLIST BOTH FULL IN RICH ADJUST	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter BATT Volts Ammeter Polischarge Rem Master Switch (ALT Or Electrical Load Pitot Heat All Lights Comm 1 and Nav 1 Avionics Master Land	OOO RPM OFF ON CHECK IN CHECK 27.5 MIN CHECK CHARGING (+) ains III) OFF EDUCE AS FOLLOWS OFF TUNE TO ACTIVE OFF EXC. IN CLOUDS SOON AS PRACTICAL IRE IN FLIGHT	FIVE Groundspeed Knots 87 91 96 100 104 109	MPH 100 105 110 115 120 125	Approximate Pivotal Altitude 670 735 810 885 960 1050
Mixture	IDLE CUTOFF PULL OUT OFF AS REQUIRED IF ABLE OFF UNLATCH URE DURING SHT AIRSPEED A68 KIAS T PLACE TO LAND CHECKLIST BOTH FULL IN RICH ADJUST L/R/BOTH	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter BATT Volts Ammeter Cif Amp Discharge Rem Master Switch (ALT Or Electrical Load Pitot Heat All Lights Comm 1 and Nav 1 Avionics Master Land ELECTRICAL F Master Switch Vents/Cabin Air/Heat	OOO RPM OFF VER CHECK IN ON CHECK CHECK 27.5 MIN CHECK CHARGING (+) ains NIY) OFF VEDUCE AS FOLLOWS OFF TUNE TO ACTIVE OFF EXC. IN CLOUDS SOON AS PRACTICAL VIRE IN FLIGHT OFF OFF OFF	FIVE Groundspeed Knots 87 91 96 100 104 109	MPH 100 105 110 115 120 125	Approximate Pivotal Altitude 670 735 810 885 960 1050
Mixture Fuel Shutoff Valve Ignition Switch Flaps Radio Call Master Switch Doors ENGINE FAIL A 3 turns nose-up trim B BES C Fuel Selector Fuel Shutoff Valve Mixture Throttle Mags D	IDLE CUTOFF PULL OUT OFF AS REQUIRED IF ABLE OFF UNLATCH URE DURING SHT AIRSPEED A68 KIAS T PLACE TO LAND CHECKLIST BOTH FULL IN RICH ADJUST L/R/BOTH	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch Ammeter BATT Volts Ammeter Cif Amp Discharge Rem Master Switch (ALT Or Electrical Load Pitot Heat All Lights Comm 1 and Nav 1 Avionics Master Land ELECTRICAL F Master Switch	OOO RPM OFF KEY	FIVE Groundspeed Knots 87 91 96 100 104 109	MPH 100 105 110 115 120 125	Approximate Pivotal Altitude 670 735 810 885 960 1050
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Mixture Fuel Shutoff Valve Ignition Switch Flaps Radio Call Master Switch Doors ENGINE FAIL FLIG A. 3 turns nose-up trim B. BES C. Fuel Selector. Fuel Shutoff Valve. Mixture. Throttle. Mags. D. Mayday. Squawk.	IDLE CUTOFF PULL OUT OFF AS REQUIRED IF ABLE OFF UNLATCH URE DURING SHT AIRSPEED A,68 KIAS ST PLACE TO LAND CHECKLIST BOTH FULL IN RICH ADJUST L/R/BOTH DECLARE ON 121.5 7700	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch BATT Volts Ammeter If Amp Discharge Rem Master Switch (ALT Or Electrical Load Pitot Heat All Lights Comm 1 and Nav 1 Avionics Master Land AS ELECTRICAL F Master Switch Vents/Cabin Air/Heat Fire Extinguisher Avionics Master Switch All Other Switches Cabin	OOO RPM OFF KER	FIVE Groundspeed Knots 87 91 96 100 104 109	MPH 100 105 110 115 120 125	Approximate Pivotal Altitude 670 735 810 885 960 1050
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Mixture	IDLE CUTOFF PULL OUT OFF AS REQUIRED IF ABLE OFF UNLATCH URE DURING SHT AIRSPEED A68 KIAS T PLACE TO LAND CHECKLIST BOTH FULL IN RICH ADJUST L/R/BOTH DECLARE ON 121.5 7700 PREPARE TO EXIT PULL OUT OFF	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch BATT Volts Ammeter If Amp Discharge Rem Master Switch (ALT Or Electrical Load Pitot Heat All Lights Comm 1 and Nav 1 Avionics Master Land As: ELECTRICAL F Master Switch Vents/Cabin Air/Heat Fire Extinguisher Avionics Master Switch All Other Switches Cabin Master Switch	OOO RPM OFF KET	FIVE Groundspeed Knots 87 91 96 100 104 109	MPH 100 105 110 115 120 125	Approximate Pivotal Altitude 670 735 810 885 960 1050
Mixture Fuel Shutoff Valve Ignition Switch Flaps Radio Call Master Switch Doors ENGINE FAIL A 3 turns nose-up trim B BES C Fuel Selector Fuel Shutoff Valve Mixture Throttle Mags D Mayday Squawk E Fuel Shutoff Valve Mixture Throttle Mags D Mayday Squawk E Fuel Shutoff Valve Mixture Mixture Mayday Squawk E Fuel Shutoff Valve Mixture Mags	IDLE CUTOFF PULL OUT OFF AS REQUIRED IF ABLE OFF UNLATCH URE DURING SHT AIRSPEED A68 KIAS ST PLACE TO LAND CHECKLIST BOTH FULL IN RICH ADJUST L/R/BOTH DECLARE ON 121.5 7700 PREPARE TO EXIT PULL OUT OFF OFF	ABOVE 1 Master (ALT Only) Alternator Circuit Breal Master Switch BATT Volts Ammeter Master Switch (ALT Or Electrical Load Pitot Heat All Lights Comm 1 and Nav 1 Avionics Master Land As ELECTRICAL F Master Switch Vents/Cabin Air/Heat Fire Extinguisher Avionics Master Switch All Other Switches Cabin Master Switch Circuit Breakers Avionics Master	OOO RPM OFF KET	FIVE Groundspeed Knots 87 91 96 100 104 109	MPH 100 105 110 115 120 125	Approximate Pivotal Altitude 670 735 810 885 960 1050
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POH/AFM takes priority over this checklist.

CESSNA 172S G500/G3X KAP140 A/P

PREFLIGHT CHECKLIST

Updated September 9th, 2022 (Rev. 10-B)

COCKPIT SAFETY CHECK Magnetos OFF, KEY OUT Mixture IDLE CUTOFF Throttle CLOSED

Master MUST Be Off During Fueling

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

CARIN

CABIN	
Keys	PLACE ON DASH
Documents	S.P.A.(R.)R.O.W.
Supplements	CHECK
Placards	CHECK
Airworthiness Cert	VISIBLE
Radio Station Lic	INT'L FLIGHT
Registration	VALID
P.O.H/A.F.M	CHECK
W&B Info	IN BINDER
Hobbs Meter	RECORD
Fire Extinguisher	GREEN/SECURE
Control Wheel Lock	REMOVE
Ignition Switch	
Avionics Master Switch	OFF
Master Switch	ON
Fuel Quantity	SET
LOW FUEL L & R Annun	VERIFY OFF
OIL PRESS Annun	VERIFY ON
LOW VACUUM Annun	VERIFY ON
Avionics Master ON	I, CHECK ON, OFF
Alternate Static Source	CHECK IN
Fuel Selector	BOTH
Fuel Shutoff Valve	FULL IN
Elevator Trim	SET T.O.
Flaps	EXTEND
Pitot Heat	CHECK AS REQ'D
Exterior Lights	CHECK AS REQ'D
Master Switch	OFF

LEFT	WING
Door Pins	INSPECT
Cabin Vents and Inlets	INSPECT
Leading Edge	INSPECT
Wing Tie Down	
Main Gear/Tire/Brakes	INSPECT
Pitot Tube	
Stall Horn	CHECK UNBLOCKED
Fuel Vent	CHECK UNBLOCKED
Wing Tip/Nav Lights	INSPECT
Left Aileron	INSPECT
Hinges (x3)	BOLTS SECURE
	INSPECT
Static Wicks (x2)	INSPECT
Flaps	INSPECT
Rod	INSPECT

EMPENNAGE Baggage DoorLOCKED A/P Static PortCHECK UNBLOCKED Skin and RivetsINSPECT Vertical StabilizerINSPECT Left Horizontal StabilizerINSPECT Left ElevatorINSPECT Weight..... SECURE Hinges..... SECURE Cables...... SECURE Static Wicks.....SECURE (X2) Rudder INSPECT Hinges..... SECURE Cables..... SECURE Static Wicks.....SECURE (X2) Tail Tie DownREMOVE Right ElevatorINSPECT Cables...... SECURE Trim Tab.....INSPECT Hinges..... SECURE Weight..... SECURE Static Wicks..... SECURE (X2) Right Horizontal StabilizerINSPECT Antennas INSPECT UndersideINSPECT

RIGHT WI	NG
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	INSPECT
Hinges (x3)	. BOLTS SECURE
Weights	INSPECT
Static Wicks (x2)	INSPECT
Flaps	INSPECT
Rod	INSPECT

NOSE AND COWLING	
Windshield	CLEAN
Oil Level	CHECK
Cold: ≥ 6 Qts, Warm: ≥ 5 1/2 Qts	S
\leq 10 hrs to mx: \geq 5 Qts	
Do Not Over Tighten Oil Cap	
Oil Access Door	SECURE
Engine Cowling	SECURE
No Consecutive Fasteners Missin	g
Prop/SpinnerII	NSPECT
No Cracks, No Screws Missing	
Cowling Inlets	
Alternator Belt CHECK T	ENSION
Air Filter	CHECK
Exhaust CHECK FOR O	CRACKS
Nose Gear/Tire/StrutII	NSPECT
Static Port CHECK 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	COMPLETE
Chocks	CONFIRM REMOVED
Tie Downs	CONFIRM REMOVED
Cowl Plugs	CONFIRM REMOVED
Pitot Cover	CONFIRM REMOVED
Preflight	COMPLETE

PERSONAL CHECKLIST

PAVE to perceive hazards	
P ilot	CHECK
Experience/recency	CHECK
Physical condition SEE	IMSAFE
Aircraft	CHECK
Fuel reserves	CHECK
Performance	CHECK
Equipment	CHECK
EnVironment	CHECK
Weather	CHECK
External Pressures	CHECK

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

PASSENGER BRIEF	AFTER START	TAKEOFF BRIEF
	Flaps UP	Conditions
Fastened during taxi, takeoff, landing.	Avionics Master Switch ON	Weather (Wind, Ceilings, Etc.)
Recommended always.	GPS Database	Hazards
A - Air ventsUSAGE	GPS Fuel SET	Weather, Terrain, Wildlife, Traffic, etc.
Sick? Loosen clothing, use air, look at point on	RadiosTUNE, GET ATIS/AWOS	Runway
horizon. Location of sick sacks.	Altimeters SET	Number (L/R), Length
F – Fire extinguisherUSAGE	PFD, Standby, KAP140 A/P	Return/Emergency Procedures
P – Pull pin	Heading Indicator BUG WIND	Before Rotation
A – Aim at base of fire	Clearance OBTAIN	After Rotation w/ Sufficient Rwy
S – Squeeze	Transponder SET/ALT	Below 1000' AGL
S – Sweep	G500/G3X Alt Sel SET	• Above 1000' AGL
E - ExitsLOCATION/USAGE	KAP140 Alt Sel SET	Establish PIC in emergency
T – Traffic EXPLAIN	GPS Flight PlanSET	Takeoff (Brief)
Clock Position / Who's looking	Of O'r light rider	Normal, Short, Soft?
Y - Yak (Sterile Cockpit)	TAXI	• From Runway
No extraneous conversation under cruise or	Taxi AreaCLEAR	Wind speed and direction
10,000' MSL (whichever is lower)	Brakes CHECK	Speeds: rotate, initial/enroute climb
Y - Yoke	Check for dip in Attitude Indicator	•
3 way positive exchange of flight controls. Stay clear of active flight controls.	ControlsPOSITION FOR WIND	Departure (Brief)
Y – Any questions?	Flight Instruments CHECK IN TURNS	RUNWAY ENTRY
- Any quodiono.		Time for Lights, Camera, Action, Traffic
BEFORE START	ENGINE RUNUP	Timer START
PreflightCOMPLETE	AircraftPOSITION INTO WIND	LightsLANDING & STROBES ON
Passenger BriefingCOMPLETE	Parking BrakeSET	TransponderVERIFY CODE/ALT
Seats and BeltsADJUSTED/LOCKED	Seats and Seat BeltsSECURE	Mixture RICH
Fuel Selector ValveBOTH	Cabin DoorsCLOSED AND LOCKED	TrafficVERIFY RWY/APCH CLEAR
Avionics Master Switch OFF	Flight ControlsFREE & CORRECT	Runway Number
Brakes TEST AND SET	Flight InstrumentsCHECK NO X'S	Heading/Compass MATCHES RWY
Test both sides and look for drips.	Standby Flight Instruments CHECK	
Circuit BreakersCHECK IN	Fuel QuantityCHECK	NORMAL TAKEOFF
Beacon ON	Fuel Selector Valve RECHECK BOTH	Flaps 0°-10°
Nav LightsON AT NIGHT/IFR	M.E.T Left Switch TEST	Throttle FULL
	Verify Trim Wheel Does Not Move	Engine Instruments "GREEN"
ENGINE START	M.E.T Right SwitchTEST	Engine RPMAT LEAST "2300 RPM"
MixtureIDLE CUTOFF	Verify Trim Wheel Does Not Move	Airspeed"ALIVE"
Throttle 1/4" OPEN	Verify P.T. Annun. On A/P Within 5 Secs	Rotate55 KIAS "ROTATE"
Master SwitchON	M.E.T Both Switches TEST	Climb 75 KIAS
Prime Engine for Cold Start or as req'd	Verify Trim Moves Correctly and no Trim Movement With A/P Disco. Btn	
Fuel PumpON	A/P ON	SHORT FIELD TAKEOFF
MixturePRIME	A/P Hdg ModeTEST	Flaps 10°
Rich 3-5 secs, then Cutoff. Verify Fuel Flow	A/P V/S Mode (Up and Dn Btns) TEST	Brakes HOLD
Fuel PumpOFF	YokeOVERPOWER	Throttle FULL
Prop AreaCLEAR	A/P Disco. BtnPRESS	Engine Instruments "GREEN"
Ignition Switch ENGAGE	Verify A/P Off and Disconnect Sound	Engine RPM AT LEAST "2300 RPM"
Do NOT Crank for > 10 secs. Allow 20 secs	Elevator Trim SET FOR TAKEOFF	BrakesRELEASE
between start attempts!	Throttle1800 RPM	Airspeed"ALIVE"
Mixture ADVANCE SMOOTHLY	MagnetosR, B, L, B	Rotate 50 KIAS "ROTATE"
When Engine Catches	Drop less than 150 and 50 between mags	Climb56 KIAS
Throttle800 RPM	Suction Gauge CHECK (IF EQUIPPED)	ObstacleCLEARED
Oil Pres ABOVE RED LINE (30 SEC)	No Vac System in Acft with A Stby G5	FlapsUP
Ammeter POSITIVE	Engine Indicators CHECK	Climb 75 KIAS
Low Volts AnnunVERIFY OFF	Ammeter ZERO OR POSITIVE	
MixtureLEAN 1"	Annunciator PanelCHECK	SOFT FIELD TAKEOFF
	Throttle CHECK IDLE	
	Throttle800 RPM	
		Control WheelFULL AFT
	Radios SET	Throttle SLOWLY ADVANCE FULL
	FMS/GPS Flight PlanVERIFY	
	2nd Radio 121.5	
	XPDRVERIFY CODE/ALT	
	CDI Softkey SELECT NAV SOURCE	Main GearLIFT OFF
		Ground Effect MAINTAIN TO 60 KIAS
	Cabin WindowsCLOSED & LOCKED	-
	BrakesRELEASE	Climb 75 KIAS