



# Aircraft Checklist

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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 & STROBES ON  
Transponder ..... VERIFY CODE/ALT  
Mixture ..... RICH  
Traffic ..... VERIFY RWY/APCH CLEAR  
Runway Number ..... CONFIRM  
Heading/Compass ..... 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

Flaps ..... 10°  
Brakes ..... HOLD  
Throttle ..... FULL  
Engine Instruments ..... "GREEN"  
Engine RPM ..... 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 AFT  
Throttle ..... SLOWLY ADVANCE FULL  
Engine Instruments ..... "GREEN"  
Engine RPM ..... AT LEAST "2300 RPM"  
Airspeed ..... "ALIVE"  
Main Gear ..... LIFT OFF  
Ground Effect .... MAINTAIN TO 60 KIAS  
Flaps ..... UP  
Climb ..... 75 KIAS

## AFTER TAKEOFF (400' AGL)

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

## CRUISE

Throttle ..... 2300-2400 RPM  
Trim ..... AS REQUIRED  
Engine Instruments ..... CHECK  
Mixture ..... LEAN AS REQUIRED  
EGT 50°F/30°C Rich of Peak

## PRE-MANEUVER CHECKS

Clear the area ..... CHECK  
Heading ..... ESTABLISHED & BUGGED  
Altitude ..... ESTABLISHED & BUGGED  
Place to land ..... CHECK  
Set Power & Config. .... CHECK  
• Fuel Selector..... BOTH  
• Mixture..... RICH  
• Lights..... 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 ..... SLIGHTLY ENRICH

## 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 ..... 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  
Tach Time ..... RECORD  
Standby Batt ..... OFF  
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

V<sub>R</sub> ..... 55 KIAS  
V<sub>X</sub> ..... 62 KIAS  
V<sub>Y</sub> ..... 74 KIAS  
V<sub>FE</sub> ..... 85 KIAS  
V<sub>A</sub> (2550/1900 lb) ..... 105 / 90 KIAS  
V<sub>S</sub> ..... 48 KIAS  
V<sub>SO</sub> ..... 40 KIAS  
Pattern ..... 95 KIAS  
Abeam Numbers ..... 85 KIAS  
Base ..... 75 KIAS  
Final ..... 65 KIAS  
V<sub>G</sub> ..... 68 KIAS  
Glide distance ..... 1.5 NM / 1000 FT.

## FREQUENCIES

### Potomac Approach

Potomac (SFRA West) ..... 127.325  
Potomoc ..... 128.525

### KHEF (Manassas)

ATIS ..... 125.175  
Tower ..... 133.1  
Ground ..... 121.8

### KHWY (Warrenton)

AWOS ..... 120.35  
CTAF ..... 122.70

### KCJR (Culpeper)

AWOS ..... 119.32  
CTAF ..... 123.07

### CSN (Casanova VORTAC)

CSN ..... 116.30

Yellow highlighted items are immediate action items that should be committed to memory.

### ENGINE FIRE DURING START

Cranking ..... CONTINUE

#### If Engine Starts

Throttle ..... 1800 RPM FOR 20 SEC  
Engine ..... SHUTDOWN AND INSPECT

#### If Engine Fails To Start

Throttle ..... FULL OPEN  
Mixture ..... IDLE CUTOFF  
Cranking ..... CONTINUE  
Fuel Shutoff Valve ..... PULL OUT  
Fire Extinguisher ..... OBTAIN  
Engine ..... MASTER AND IGNITION OFF  
Aircraft ..... EVACUATE  
Fire ..... EXTINGUISH  
Damage ..... INSPECT

### ENGINE FAILURE PRIOR TO TAKEOFF

Throttle ..... IDLE  
Brakes ..... APPLY  
Flaps ..... RETRACT  
Mixture ..... IDLE CUTOFF  
Ignition Switch ..... OFF  
Radio Call ..... IF ABLE  
Standby Battery ..... OFF  
Master Switch ..... OFF

### ENGINE FAILURE IMMEDIATELY AFTER TAKEOFF

Airspeed Flaps Up ..... 70 KIAS  
Airspeed Flaps Down ..... 65 KIAS  
Landing Site ..... SELECT  
Mixture ..... IDLE CUTOFF  
Fuel Shutoff Valve ..... PULL OUT  
Ignition Switch ..... OFF  
Flaps ..... AS REQUIRED  
Radio Call ..... IF ABLE  
Standby Battery ..... OFF  
Master Switch ..... OFF  
Doors ..... UNLATCH

### ENGINE FAILURE DURING FLIGHT

**A.....AIRSPEED**  
3 turns nose-up trim, 68 KIAS

**B.....BEST PLACE TO LAND**

**C.....CHECKLIST**

Fuel Selector..... BOTH  
Fuel Shutoff Valve..... FULL IN  
Mixture..... RICH  
Throttle..... ADJUST  
Mags..... L/R/BOTH

**D.....DECLARE**  
Mayday..... ON 121.5  
Squawk..... 7700

### E.....PREPARE TO EXIT

Fuel Shutoff Valve..... PULL OUT  
Mixture..... OFF  
Mags..... OFF  
Standby Battery..... OFF  
Master Switch..... OFF WHEN ABLE  
Doors..... UNLATCH  
Passenger Brief..... COMPLETE

### ENGINE FIRE IN FLIGHT

Mixture ..... IDLE CUTOFF  
Fuel Shutoff Valve ..... PULL OUT  
Master Switch ..... OFF  
Cabin Heat and Air ..... OFF  
Airspeed ..... INCREASE / 100+ KIAS  
Forced Landing ..... EXECUTE

### CABIN FIRE

Master Switch ..... OFF  
Air Vents and Windows ..... CLOSED  
Fire Extinguisher ..... ACTIVATE  
Cabin ..... VENTILATE  
Land ..... AS SOON AS POSSIBLE

### WING FIRE

Nav Lights ..... OFF  
Pitot Heat ..... OFF  
Strobe Lights ..... OFF

*Side slip to keep flames away from the fuel tank and land as soon as possible. Only use flaps as required for final approach and touchdown*

### EXCESSIVE AMMETER CHARGE

Master Switch (Alt Only) ..... OFF  
Electrical Load .. REDUCE AS FOLLOWS  
Pitot Heat..... OFF  
All Lights..... OFF  
Comm 1 and Nav 1 ..... TUNE TO ACTIVE  
Avionics Master .. OFF EXC. IN CLOUDS  
Land ..... AS SOON AS PRACTICAL

### LOW VOLTS ANNUNCIATOR ABOVE 1000 RPM

Master (ALT Only) ..... OFF  
Alternator Circuit Breaker ..... CHECK IN  
Master Switch ..... ON  
Ammeter ..... CHECK  
BATT Volts ..... CHECK 27.5 MIN  
Ammeter ..... CHECK CHARGING (+)  
If Amp Discharge Remains  
Master Switch (ALT Only) ..... OFF  
Electrical Load .. REDUCE AS FOLLOWS  
Pitot Heat..... OFF  
All Lights..... OFF  
Comm 1 and Nav 1 ..... TUNE TO ACTIVE  
Avionics Master .. OFF EXC. IN CLOUDS  
Land ..... AS SOON AS PRACTICAL

### AIR DATA / AHRS SYSTEM FAILURE (RED X ON PFD)

*Check ADAHRS Circuit Breakers and Reset. If it Opens again, do not reset and use standby instruments.*

### ELECTRICAL FIRE IN FLIGHT

Master Switch ..... OFF  
Vents/Cabin Air/Heat ..... OFF  
Fire Extinguisher ..... ACTIVATE  
Avionics Master Switch ..... OFF  
All Other Switches ..... OFF  
Cabin ..... VENTILATE  
Master Switch ..... ON  
Circuit Breakers ..... CHECK  
Avionics Master ..... ON  
Electrical Equip ..... ON ONE AT A TIME

### PFD1 OR MFD1 COOLING ANNUNCIATORS

Cabin Heat ..... REDUCE  
Forward Avionics Fan/FAN FOR AIRFLOW

#### Fan has Failed

Standby Battery Switch ..... OFF

#### Annunciator Doesn't Go Off in 3 min

Land ..... AS SOON AS PRACTICAL

### LIGHT SIGNALS (GROUND)

Cleared for Takeoff ..... STEADY GREEN  
Cleared to Taxi ..... FLASHING GREEN  
Stop ..... STEADY RED  
Taxi clear of runway ..... FLASHING RED  
Return to airport starting point .....  
..... FLASHING WHITE  
General Warning, Exercise Caution .....  
..... ALTERNATING RED AND GREEN

### LIGHT SIGNALS (FLIGHT)

Cleared to Land ..... STEADY GREEN  
Return to Land ..... FLASHING GREEN  
Give way and Circle ..... STEADY RED  
Do not land ..... FLASHING RED  
General Warning, Exercise Caution .....  
..... ALTERNATING RED AND GREEN

### POWER SETTINGS

Climb ..... FULL POWER  
Cruise ..... 2300-2400 RPM  
Descent ..... 2100 RPM  
Precision Approach ..... 1800 RPM  
Non-Precision Approach ..... 1500 RPM  
Pattern ..... 2100 RPM  
Abeam Numbers ..... 1500 RPM

### PIVOTAL ALTITUDE

Groundspeed		Approximate Pivotal Altitude
Knots	MPH	
87	100	670
91	105	735
96	110	810
100	115	885
104	120	960
109	125	1050
113	130	1130



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**KAP140 A/P**

## PREFLIGHT CHECKLIST

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

### COCKPIT SAFETY CHECK

**Magnetos** ..... OFF, KEY OUT  
**Mixture** ..... IDLE CUTOFF  
**Throttle** ..... CLOSED

### PREFLIGHT PREPARATION

Weather ..... CHECK  
Inspections/ADs/Squawks ..... CHECK  
Flight Plan ..... FILED  
Weight and Balance ..... COMPUTE  
Fuel Quantity ..... CHECK / CALL

**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

### CABIN

Keys ..... PLACE ON DASH  
Documents ..... S.P.A.(R.)R.O.W.  
Supplements..... CHECK  
G1000 Manual  
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 ..... OFF  
Avionics (Bus 1 & Bus 2) ..... OFF  
Master Switch ..... ON  
PFD ..... VERIFY ON  
Fuel Quantity ..... SET  
LOW FUEL L & R Annun ..... VERIFY OFF  
OIL PRESS Annun. .... VERIFY ON  
LOW VACUUM Annun. .... VERIFY ON  
Avionics BUS 1 ..... ON, CHK FAN, OFF  
Avionics BUS 2 ..... ON, CHK FAN, 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 ..... REMOVE  
Main Gear/Tire/Brakes ..... INSPECT  
Pitot Tube ..... CHECK UNBLOCKED  
Stall Horn ..... CHECK UNBLOCKED  
Fuel Vent ..... CHECK UNBLOCKED  
Wing Tip/Nav Lights ..... INSPECT  
Left Aileron ..... INSPECT  
Hinges (x3)..... BOLTS SECURE  
Weights..... INSPECT  
Static Wicks (x2)..... INSPECT  
Flaps ..... INSPECT  
Rod..... INSPECT

### EMPENNAGE

Baggage Door ..... LOCKED  
A/P Static Port ..... CHECK UNBLOCKED  
Skin and Rivets ..... INSPECT  
Vertical Stabilizer ..... INSPECT  
Left Horizontal Stabilizer ..... INSPECT  
Left Elevator ..... INSPECT  
Weight..... SECURE  
Hinges..... SECURE  
Cables..... SECURE  
Static Wicks..... SECURE (X2)  
Rudder ..... INSPECT  
Hinges..... SECURE  
Cables..... SECURE  
Static Wicks..... SECURE (X2)  
Tail Tie Down ..... REMOVE  
Right Elevator ..... INSPECT  
Cables..... SECURE  
Trim Tab..... INSPECT  
Hinges..... SECURE  
Weight..... SECURE  
Static Wicks..... SECURE (X2)  
Right Horizontal Stabilizer ..... INSPECT  
Antennas ..... INSPECT  
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 ..... INSPECT  
Hinges (x3)..... BOLTS SECURE  
Weights..... INSPECT  
Static Wicks (x2)..... INSPECT  
Flaps ..... INSPECT  
Rod..... INSPECT

### NOSE AND COWLING

Windshield ..... CLEAN  
Oil Level ..... CHECK  
Cold:  $\geq 6$  Qts, Warm:  $\geq 5 \frac{1}{2}$  Qts  
 $\leq 10$  hrs to mx:  $\geq 5$  Qts  
Do Not Over Tighten Oil Cap  
Oil Access Door ..... SECURE  
Engine Cowling ..... SECURE  
No Consecutive Fasteners Missing  
Prop/Spinner ..... INSPECT  
No Cracks, No Screws Missing  
Cowling Inlets ..... CHECK  
Alternator Belt ..... CHECK TENSION  
Air Filter ..... CHECK  
Exhaust ..... CHECK FOR CRACKS  
Nose Gear/Tire/Strut ..... INSPECT  
Static Port ..... CHECK UNBLOCKED

### FINAL CHECK

Fuel Sumps ..... DRAIN  
Left Wing (5)..... DRAIN  
Right Wing (5)..... DRAIN  
Cowling (3)..... DRAIN  
Fuel Quantity ..... VISUAL CHECK  
Fuel Caps ..... SECURE  
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  
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

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

PASSENGER BRIEF	AFTER START	TAKEOFF BRIEF
<b>S</b> – Seatbelts ..... USAGE <i>Fastened during taxi, takeoff, landing.  Recommended always.</i> <b>A</b> – Air vents ..... USAGE <i>Sick? Loosen clothing, use air, look at point  on horizon. Location of sick sacks.</i> <b>F</b> – Fire extinguisher ..... USAGE P – Pull pin A – Aim at base of fire S – Squeeze S – Sweep <b>E</b> – Exits ..... LOCATION/USAGE <b>T</b> – Traffic ..... EXPLAIN <i>Clock Position / Who's looking</i> <b>Y</b> – Yak (Sterile Cockpit) <i>No extraneous conversation under cruise or  10,000' MSL (whichever is lower)</i> <b>Y</b> – Yoke <i>3 way positive exchange of flight controls.  Stay clear of active flight controls.</i> <b>Y</b> – Any questions?	Flaps ..... UP Avionics (Bus 1 and Bus 2) ..... ON MFD Database ..... CHECK DATES Aux Status Pg. .... CHECK NO X'S Engine System Pg. .... SET GAL REM Radios ..... TUNE, GET ATIS/AWOS Altimeters ..... SET <i>PFD, Standby, KAP140 A/P</i> Heading Indicator ..... BUG WIND Clearance ..... OBTAIN Transponder ..... SET/ALT G1000 Alt Sel ..... SET KAP140 Alt Sel ..... SET FMS/GPS Flight Plan ..... SET	Conditions Weather (Wind, Ceilings, Etc.) Hazards Weather, Terrain, Wildlife, Traffic, etc. Runway Number (L/R), Length Return/Emergency Procedures • Before Rotation • After Rotation w/ Sufficient Rwy • Below 1000' AGL • Above 1000' AGL • Establish PIC in emergency Takeoff (Brief) • Normal, Short, Soft? • From Runway • Wind speed and direction • Speeds: rotate, initial/enroute climb Departure (Brief)
BEFORE START	TAXI	RUNWAY ENTRY
Preflight ..... COMPLETE Passenger Briefing ..... COMPLETE Seats and Belts ..... ADJUSTED/LOCKED Fuel Selector Valve ..... BOTH Avionics Master Switch ..... OFF Brakes ..... TEST AND SET <i>Test both sides and look for drips.</i> Circuit Breakers ..... CHECK IN Beacon ..... ON Nav Lights ..... ON AT NIGHT/IFR	Taxi Area ..... CLEAR Brakes ..... CHECK <i>Check for dip in Attitude Indicator</i> Controls ..... POSITION FOR WIND Flight Instruments .... CHECK IN TURNS	<i>Time for Lights, Camera, Action, Traffic</i> Timer ..... START Lights ..... LANDING & STROBES ON Transponder ..... VERIFY CODE/ALT Mixture ..... RICH Traffic ..... VERIFY RWY/APCH CLEAR Runway Number ..... CONFIRM Heading/Compass ..... MATCHES RWY
ENGINE START	ENGINE RUNUP	NORMAL TAKEOFF
Mixture ..... IDLE CUTOFF Throttle ..... 1/4" OPEN Stby Batt Switch ..... TEST <i>Hold for 10 seconds</i> <i>verify green test lamp does not extinguish</i> Stby Batt Switch ..... ARM <i>Verify that PFD comes on</i> Engine Indicating System ..... CHECK <i>Verify no red X's through engine page</i> Bus E Volts ..... 23.5 VOLTS MIN. M Bus Volts ..... 1.5V OR LESS Batt S Amps ..... DISCHARGE (NEG) Stby Batt Annunciator ..... VERIFY ON Master Switch ..... ON <i>Prime Engine for Cold Start or as req'd</i> Fuel Pump ..... ON Mixture ..... PRIME <i>Rich 3-5 secs, then Cutoff. Verify Fuel Flow</i> Fuel Pump ..... OFF Prop Area ..... CLEAR Ignition Switch ..... ENGAGE <i>Do NOT Crank for &gt; 10 secs. Allow 20 secs  between start attempts!</i> Mixture ..... ADVANCE SMOOTHLY <i>When Engine Catches</i> Throttle ..... 800 RPM Oil Pres. .... ABOVE RED LINE (30 SEC) Amps (M Batt & Batt S) ..... POSITIVE Low Volts Annum ..... VERIFY OFF Mixture ..... LEAN 1"	Aircraft ..... POSITION INTO WIND Parking Brake ..... SET Seats and Seat Belts ..... SECURE Cabin Doors ..... CLOSED AND LOCKED Flight Controls ..... FREE & CORRECT Flight Instruments ..... CHECK NO X'S Standby Flight Instruments ..... CHECK Fuel Quantity ..... CHECK Fuel Selector Valve .... RECHECK BOTH M.E.T Left Switch ..... TEST <i>Verify Trim Wheel Does Not Move</i> M.E.T Right Switch ..... TEST <i>Verify Trim Wheel Does Not Move</i> <i>Verify P.T. Annum. On A/P Within 5 Secs</i> M.E.T Both Switches ..... TEST <i>Verify Trim Moves Correctly and  no Trim Movement With A/P Disco. Btn</i> A/P ..... ON A/P Hdg Mode ..... TEST A/P V/S Mode ..... TEST Yoke ..... OVERPOWER A/P Disco. Btn ..... PRESS <i>Verify A/P Off and Disconnect Sound</i> Elevator Trim ..... SET FOR TAKEOFF Throttle ..... 1800 RPM Magnetos ..... R, B, L, B <i>Drop less than 150 and 50 between mags</i> VAC Indicators ..... CHECK Engine Indicators ..... CHECK Ammeters & Voltmeters ..... CHECK Annunciators ..... CHECK Throttle ..... CHECK IDLE Throttle ..... 800 RPM Throttle Friction Lock ..... ADJUST Radios ..... SET FMS/GPS Flight Plan ..... VERIFY 2nd Radio ..... 121.5 XPDR ..... VERIFY CODE/ALT CDI Softkey ..... SELECT NAV SOURCE Wing Flaps ..... SET Cabin Windows ..... CLOSED & LOCKED Brakes ..... RELEASE	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
		Flaps ..... 10° Brakes ..... HOLD Throttle ..... FULL Engine Instruments ..... "GREEN" Engine RPM ..... 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 AFT Throttle ..... SLOWLY ADVANCE FULL Engine Instruments ..... "GREEN" Engine RPM ..... AT LEAST "2300 RPM" Airspeed ..... "ALIVE" Main Gear ..... LIFT OFF Ground Effect .... MAINTAIN TO 60 KIAS Flaps ..... UP Climb ..... 75 KIAS