After Televisia de la companya
After Takeoff (Out of 1000' AGL)
AIRSPEEDV _Y /V _X /AS REQ
(If a maximum performance climb is necessary, use speeds in rate-of-climb data charts
in section 5 of the POH/AFM.)
FLAPSUP
THROTTLEFULL
MIXTURE FULL RICH BELOW 3000' MSL
WINTONE IIIIIIIII DEE WETT DEE W 3000 WSE
Cruise
POWER(≤ 75% Power per POH/AFM) SET
ENGINE INSTRUMENTSCHECK
LANDING LIGHT
ON (for local training) / OFF (for XC cruise)
MIXTURELEAN AS REQUIRED
MAG COMPASS / HICHECK / SET
In-Range / Descent
(For Cross-Country, ACPP Only)
ATIS / AWOS (As early as possible)
ALTIMETERSET
PRELIMINARY APPROACH BRIEF
Type of Approach
Runway length / Lighting
Field Elevation / Sector Altitude
Highest Obstacle / Terrain Review
NAV / Course / Minimums / Missed
Crosswind Component
AIRPORT DIAGRAM (Keep availabile)
SEAT BELTSFASTENED
MIXTURESLIGHTLY ENRICH
CARB HEAT AS REQ
CARB HEATAS REQ
Approach (Approx 15 NM from Airport)
Approach (Approx 15 NM from Airport) ATIS/AWOSCHECK
Approach (Approx 15 NM from Airport) ATIS/AWOS
Approach (Approx 15 NM from Airport) ATIS/AWOS
Approach (Approx 15 NM from Airport) ATIS/AWOS
Approach (Approx 15 NM from Airport) ATIS/AWOS
Approach (Approx 15 NM from Airport) ATIS/AWOS
Approach (Approx 15 NM from Airport) ATIS/AWOS
Approach (Approx 15 NM from Airport) ATIS/AWOS CHECK APPROACH BRIEFING COMPLETE ALTIMETER SET HEADING INDICATOR TO COMPASS SET FUEL SELECTOR BOTH PARKING BRAKE CHECK RELEASED LANDING LIGHT ON WHEN DIRECT TO 1AF OR VECTORED
Approach (Approx 15 NM from Airport) ATIS/AWOS
Approach (Approx 15 NM from Airport) ATIS/AWOS CHECK APPROACH BRIEFING COMPLETE ALTIMETER SET HEADING INDICATOR TO COMPASS SET FUEL SELECTOR BOTH PARKING BRAKE CHECK RELEASED LANDING LIGHT ON WHEN DIRECT TO 1AF OR VECTORED

N Normal



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Preflight Inspection			
FLIGHT SCHEDULE PROCHECK OUT/TIMES CHECKED			
WEATHERCHECK			
WEIGHT AND BALANCECOMPUTE			
PITOT HEAT(If IFR) CHECK			
INTERIOR			
FIRE EXTINGUISHERCHECK			
AIRCRAFT DOCUMENTSCHECK			
CONTROL WHEEL LOCKREMOVE			
POH/AFMCHECK			
IGNITION SWITCHOFF			
MASTER SWITCHON			
FUEL QUANTITYCHECK			
ALTERNATE STATIC SOURCEOFF			
BEACON/ANTICOLLISION LT,			
NAV, & LANDING LIGHTSCHECK			
FLAPSFULLY EXTEND			
MASTER SWITCHOFF			
FUEL SELECTOR VALVEBOTH			
BAGGAGE AND LOOSE ITEMSSTOWED			
EMPENNAGE			
BAGGAGE DOORCHECK			
RUDDER GUST LOCK(If installed) REMOVE			
CONTROL SURFACES(Freedom & security) CHECK			
TRIM TABCHECK			
ANTENNASCHECK			
RIGHT WING TRAILING EDGE			
FLAP(Security) CHECK			
AILERON(Freedom & security) CHECK			
RIGHT WING & LEADING EDGE			
FUEL QUANTITYCHECK VISUALLY			
FUEL FILLER CAPSECURE			
FUEL TANK SUMPCHECK			
Check for water and sediment.			
MAIN WHEEL TIRE, BRAKE DISC & PADSCHECK			
Check for wear and proper inflation.			
Continued			

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Preflight Inspection (Continued)

NOSE

WINDSHIELD	CHECK FOR CLEANLINESS	
FUEL STRAINER	TAKE SAMPLE	
Check for wa	ter & sediment.	
OIL LEVEL	CHECK	
OIL ACCESS DOOR	SECURE	
ENGINE COOLING AIR INLET	SCHECK	
	CHECK	
LANDING & TAXI LIGHT(S) (if	applicable)CHECK	
	CHECK	
NOSE WHEEL STRUT (Approx. :	3" Extension)CHECK	
	CHECK	
	CHECK	
LEFT WING		
FUEL QUANTITY	CHECK VISUALLY	
FUEL FILLER CAP	SECURE	
PITOT TUBE COVER	REMOVE	
PITOT TUBE	CHECK UNOBSTRUCTED	
STALL HORN OPENING	CHECK UNOBSTRUCTED	
FUEL TANK VENT	CHECK	

Before Starting Engine PREFLIGHT INSPECTION......COMPLETE

WT&BAL, DOCS, PERFORMANCECHECK

FUEL TANK SUMP......CHECK **LEFT WING TRAILING EDGE**

AILERON.....(Freedom & security) CHECK FLAP (Security) CHECK MAIN WHEEL TIRE, BRAKE DISC & PADSCHECK

PASSENGER BRIEF	.COMPLETE
Doors, Seats & Seatbelts (Positive Latch),	
Fire Extinguisher, No Smoking, PIC Authority	
SEAT & SEAT BELTS ADJUST	AND LOCK
CIRCUIT BREAKERS	
ELECTRICAL SWITCHES	OFF
IGNITION SWITCH	OFF
AVIONICS MASTER SWITCH	OFF
ALTERNATE STATIC SOURCE	
FUEL SELECTOR VALVE	BOTH
CARB HEAT	COLD
PRIMER3 STROKES & LOCK (COLD E	DAYS ONLY)
MASTER SWITCH	ON
BEACON	ON
NAV LIGHTS	ON

172 N Normal

MIXTURE	RICH
THROTTLE	1/4" OPEN
BRAKES	HOLD
PROP AREA	CLEAF
IGNITION	(ATP 8 Second Max) START

IF ENGINE DOES NOT START

WAIT 30 SECONDS

THROTTLE.....CYCLE 2 STROKES & CLOSE IGNITION(ATP 8 Second Max) START (Do not attempt another start by cycling throttle.

Use primer only.)

WHEN ENGINE STARTS

THROTTLE	1000 RPN
OIL PRESSURE	(In 15 seconds) CHECK GREEN
MIXTURE	LEAN FOR RPM RISE
THROTTLE	1000 RPM
FLAPS	UP

After Start

HEADSETS	ON
AVIONICS MASTER	SWITCHON
COMS	. ATIS/AWOS/CLEARANCE IF REQ
ALTIMETER	SET
GPS	ENTER WPT / FPL / APR AS REQ.
NAVS	SET / COURSE
FLIGHT INSTRUME	NTS
(AI/TC/COMPASS &	HI/VSI)CHECK

Taxi

TAXI CLEARANCE	OBTAIN / BRIEF
TAXI AREA	CLEAR
BRAKES	CHECK
FLIGHT INSTRUMENTS (AI/TC/HI/	VSI)CK
Check in turns.	•
STERILE COCKPIT	

.....NO NON-ESSENTIAL CONVERSATION

172N Normal

	•		
na	ine	Sta	ırt

51611	MIXTURE	FULL FWD
RICH	THROTTLE	1800 RPM
¼" OPEN	MAGNETOS	
HOLD	(Drop should not exceed 150 RPM on either	magneto
CLEAR	or a difference of 50 RPM between the t	wo.)
l Max) START	ENGINE INSTRUMENTS & AMMETER	CHECK
I Max) S IAN I	SUCTION GAUGE	CHECK
	CARB HEATON / CHECK	FOR RPM DROP

THROTTLE...... 1000 RPM MIXTURE SLIGHTLY LEAN Engine failure or abnormality during takeoff roll:

THROTTLE......IDLE / CHECK 600-800 RPM

CARB HEAT......OFF

Run Up

.....FULL FWD

IMMEDIATELY CLOSE THROTTLE, STOP STRAIGHT AHEAD & AVOID OBSTACLES

If not enough runway remains to stop:		
MIXTURE	CUTOI	
FUEL SELECTOR	ROTATE TO O	
BATTERY MASTER SWITCH		
IGNITION SWITCH		
AVOID OBSTACLES		

Engine failure immediately after takeoff: LAND ON REMAINING RUNWAY / WITHIN 30° OF CENTERLINE. AVOID OBSTACLES. DO NOT ATTEMPT 180° TURN.

AIRSPEED	LOWER NOSE & ESTABLISH PITCH FOR BEST GLIDE
FLAPS	AS NECESSARY
	AS AVAILABLE
TIME PERMITTIN	GDECLARE AN EMERGENCY
MIXTURE	CUTOFF
FUEL SELECTOR.	ROTATE TO OFF
IGNITION	OFF
BATTERY MASTE	ROFF

Before Takeoff

PRE-TAKEOFF BRIEF	COMPLETE
FLIGHT CONTROLS	FREE & CORRECT
FLIGHT INSTRUMENTS	CHECK & SET
AUTOPILOT (If Installed)	OFF
FUEL GAUGE / QTY	CHECK / SUFFICIENT
FUEL SELECTOR	ВОТН
TRIM	SET T/O
FLAPS	SET
GPS	(As req. for departure) SET
HEADING INDICATOR	SET
DEPARTURE BRIEF	
Initial Altitude & Heading	

Brief Departure Procedure......COMPLETE

MIXTURE FULL FWD (Or set for altitude) ENGINE INSTRUMENTSCHECK

SEAT BACKS MOST UPRIGHT POSITION SEAT BELT & SHOULDER HARNESS

FINAL ITEMS WHEN #1 FOR TAKEOFF

DOORS & W	INDOWS	CLOSED & LOCKEL
LANDING LI	GHT	O.
STROBE LIG	HT	(If installed) ON
TRANSPONI	DER	AL7

172 N Normal

Engine Failure During Flight

AIRSPEED......BEST GLIDE / 65-70 KIAS
NOTE WIND DIRECTION AND SPEED
PICK & FLY TOWARDS LANDING SITE
CARB HEAT.....ON
MIXTURE.....RICH
FUEL SELECTOR VALVE....BOTH
PRIMER.....IN & LOCKED
MAGNETOS.....CHECK ALL
IF PROP NOT WINDMILLING
IGNITION SWITCH....START
MAGNETOS.....CHECK ALL

Precautionary Landing with Engine Power

LANDING AREA......SELECT & INSPECT
RADIO & ELECTRICAL SWITCHESOFF

ON FINAL APPROACH

FLAPS(30° Recommended) AS REQ
MASTER SWITCHOFF

DOORS(Prior to touchdown) UNLATCH
IGNITION SWITCHOFF

BRAKES.....APPLY HEAVILY

Emergency Landing No Engine Power

LANDING AREA......SELECT & INSPECT
AIRSPEEDBEST GLIDE / 65-70 KIAS (Flaps Up)
MIXTURECUTOFF
FUEL SELECTOR VALVE.....OFF
IGNITION SWITCHOFF
FLAPS(40°/60 KIAS Recommended) AS REQ
MASTER SWITCHOFF
DOORS(Prior to touchdown) UNLATCH
BRAKESAPPLY HEAVILY

Pattern Work

(Touch & Go's Prohibited Except With Instructor)

· .	
Before Landing Che	cklist
FUEL SELECTOR	BOTH
MIXTURE	FWD
CARB HEAT	ON
Go Around / Missed A	pproach
THROTTLE	· -
CARB HEAT	
FLAPS	
PITCH	
FLAPS	
AIRSPEED	
AT SAFE ALTITUDE & > 65 KIA	
FLAPS	UP
FLY ASSIGNED/PUBLISHED HEADING & ALTITUE	
Touch and Go	
MAINTAIN CENTERLINE	
FLAPS	UP
CARB HEAT	OFF
THROTTLE	FULL
a. I !! Ia I	
Standardized Speeds 80 KIAS	FLADC 100 1500 DDM
70 KIASFL/	
/0 KIASFL/	
65 KIAS1	SHORT FINAL UNTIL
When landing assured.	0 to 20 ABOVE RUNWAY
	65 WAS - 51 ABS 200
SOFT FIELD	
SHORT FIELD	60 KIAS - FLAPS 30°
After Landing (Ch.	
After Landing (Sto	
TRIM	
CARB HEAT	• • • • • • • • • • • • • • • • • • • •
FLAPS	
LANDING & TAXI LIGHTS	
MIXTURE	
TAXI CLEARANCE	OBTAIN & BRIEF
Before Takeoff	;
before takeon	



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Engine Failure During	Takeoff Roll
THROTTLE	
BRAKES	APPLY
FLAPS	UP
MIXTURE	CUTOFF
IGNITION SWITCH	OFF
MASTER SWITCH	OFF

Engine Failure During Takeoff

FINAL ITEMS WHEN #1 FOR TAKEOFF
DOORS & WINDOWSCLOSED & LOCKED

STROBE LIGHT.....(If Installed) ON TRANSPONDER......ALT

PRE-TAKEOFF BRIEF.....

AUTOPILOT (If Installed)

HEADING INDICATOR.....

ENGINE INSTRUMENTS

LANDING LIGHT

Brief Departure Procedure.....

SEAT BELT & SHOULDER HARNESS.....

DEPARTURE BRIEF
Initial Altitude & Heading

MIXTURE

SEAT BACKS ...

FLIGHT CONTROLS......FREE & CORRECT FLIGHT INSTRUMENTS......CHECK & SET

FUEL GAUGE / QTY......CHECK / SUFFICIENT
FUEL SELECTOR......BOTH

.....FULL FWD (Or set for altitude)

.....MOST UPRIGHT POSITION

..COMPLETE

Spin Recovery
In the event the aircraft enters an unintentional spin, proceed as follows.
THROTTLEIMMEDIATELY CLOSED
AILERONSNEUTRALIZE
RUDDER FULL, OPPOSITE ROTATION
ELEVATOR CONTROL
BRISKLY FORWARD PAST CENTER
ONCE ROTATION STOPS
RUDDERNEUTRALIZE
SLOWLY RECOVER FROM DIVE
WHEN STRAIGHT AND LEVEL
THROTTLEFULL
Cabin Fire
MASTER SWITCHOFF
MASTER SWITCHOFF VENTS, CABIN HEAT & AIRCLOSED
MASTER SWITCHOFF
MASTER SWITCH
MASTER SWITCHOFF VENTS, CABIN HEAT & AIRCLOSEC FIRE EXTINGUISHERACTIVATE
MASTER SWITCH
MASTER SWITCHOFF VENTS, CABIN HEAT & AIRACTIVATE WHEN FIRE IS OUT CABINVENTILATE
MASTER SWITCH
MASTER SWITCH
MASTER SWITCH
MASTER SWITCH

211O1 HEAT SWITCHOFF
Perform a sideslip to keep the flames away from the fuel tank and cabin.
Land as soon as possible using flaps only as required for final approach
and touchdown.

Electrical Fire		
MASTER SWITCHOFF		
ALL ELECTRICAL SWITCHES		
(Except ignition switch)OFF		
VENTS, CABIN HEAT & AIRCLOSED		
FIRE EXTINGUISHERACTIVATE		
WHEN FIRE IS OUT		
CABINVENTILATE		
IF FIRE APPEARS OUT & ELECTRICAL POWER REQ'D		
MASTER SWITCHON		
CIRCUIT BREAKERS(Do not reset) CHECK		
MASTER AVIONICS SWITCHON		
RADIOS(One at a time with a delay after each) ON		
LAND AS SOON AS POSSIBLE		

172 Emergency & Abnormal

Engine Fire In Flight
MIXTUREIDLE CUT OFF
FUEL SELECTOROFF
MASTER SWITCHOFF
CABIN HEAT & AIR (Except overhead vents)OFF
AIRSPEED
INCREASE AS REQ TO EXTINGUISH FIRE
REEFER TO "EMERGENCY LANDING NO ENGINE
POWER" CHECKLIST
Engine Fire During Start
Continue cranking in an attempt to get the engine started which
would suck the flames and accumulated fuel through the carburetor
and into the engine.
IF ENGINE STARTS
THROTTLE(For 2 minutes) 1700 RPM
MIXTURECUTOFF
IF ENGINE DOES NOT START
MIXTURECUTOFF
THROTTLEFULL
CONTINUE CRANKING FOR A FEW SECONDS
FUEL SELECTOROFF
MASTER SWITCHOFF
IGNITION SWITCHOFF
EVACUATE AIRCRAFT, OBTAIN FIRE EXTINGUISHER
& EXTINGUISH FIRE IF PRACTICAL
41 1 7 1 14 1 21
Cleaning Fouled Spark Plugs
(CAUTION: Hold brakes securely and remain vigilant for aircraft movement;
only perform runup on surface free from gravel/dirt.)
THROTTLE2000 RPM
MIXTURELEAN FOR SLIGHT RPM DROP
MAINTAIN FOR 60 SECONDS
MIXTUREFULL FORWARD
THROTTLE1800 RPM
PERFORM MAGNETO CHECK
Note:
While performing the above checklist, do not allow
oil temperature to reach redline and be vigilant of oil

pressure.

Ammeter: Excessive Rate of Charge

for Ammeter Full-Scale Deflection

ALTERNATOROFF

NON-ESSENTIAL ELEC. EQUIPMENT.....OFF

LAND AS SOON AS POSSIBLE

Compass may be off as much as 25°.

Over-Voltage Light Illuminates

MASTER SWITCHC	OFF (Both sides)	
MASTER SWITCH	ON	
OVER VOLTAGE LIGHT	CHECK OFF	
IF OVER-VOLTAGE LIGHT ILLUMINATES AGAIN		
I AND AS SOON AS DOSSIRI F		

Ammeter Shows Discharge

ALTERNATOR	OFF
NONESSENTIAL ELEC. EQUIPMENT	OFF
LAND AS SOON AS POSSIBLE	

Low Voltage Light During Flight

RADIOS, AVIONICS POWER SWITCH	OFF
MASTER SWITCH	OFF
MASTER SWITCH	ON
LOW VOLTAGE LIGHT	CHECK OFF
RADIOS, AVIONICS POWER SWITCH	ON
IF LOW VOLTAGE LIGHT RE-ILLUMII	NATES
ALTERNATOR	OFF
NON-ESSENTIAL ELECT. EQUIPMENT.	OFF
LAND AS SOON AS POSSIBLE	

Static Source Blockage

ALTERNATE STATIC SOURCE VALVE
PULL ON
AIRSPEED
CONSULT TABLES IN POH/AFM SECTION 5

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