### **Ground Checklists and Information**

#### N73146

# **Operating Checklists**

#### N73146

	eckiists and
Preflight	
	ıids
Magnetos	OFF
Fuel quantity	CHECK VISUALLY
uel sumps	DRAIN
	t wing, fuel strainer.
Inspect for con	
Fuel filler caps	SECURE
Engine oil level	CHECK
	Minimum 6 quarts
Ca	bin
Pitot cover	REMOVE
POH	VERIFY PRESENT
Master	ON
laps	EXTEND
Fuel gauges	CHECK QUANTITY
Lights	CHECK
Tach time	RECORD
Pitot heat	TEST
Master	OFF
ire extinguisher	SECURE
Control lock	REMOVE
Empe	nnage
Rudder gust lock	REMOVE
Control surfaces	CHECK
	ement and security
	ght
Main wheel tire	CHECK INFLATION
Aileron	CHECK
	ement and security
	ose
Propeller, spinner	CHECK
	r nicks and security
anding light	CHECK CLEAR
Air filter	CHECK CLEAR
Nosewheel & strut	
Static source	CHECK CLEAR
	eft
	CHECK INFLATION
Main wheel tire	
Fuel tank vent	CHECK CLEAR
Pitot tube	CHECK CLEAR
Stall warning	TEST
Aileron	CHECK
	rement and security
Fi	nal

FlightCircle

Tie-downs

Baggage door Chocks

	14/5170
Securing	
Control lock	INSTALL
Tie-downs, chocks	APPLY
Vents, windows	CLOSE
Pitot cover	APPLY
Tach, Hobbs times	RECORD
FlightCircle	CHECK IN
Doors	LOCK

Start	
Before Start	
Preflight inspection	COMPLETE
Passenger briefing	COMPLETE
Brakes	TEST and SET
Seats, belts, harnesses	SECURE
Fuel valve	BOTH
Radios, electrical equipment	OFF
Circuit breakers	CHECK IN
Beacon switch	ON
Engine Start	
Mixture	RICH
Carburetor heat	COLD
Prime	AS REQUIRED
Throttle	OPEN 1/8 INCH
Master	ON
Propeller area	CLEAR
Ignition switch	START
	n engine starts
Oil pressure	CHECK
If no pressure in 30 seco	
Mixture	GROUND LEAN
Before Taxi	211
Avionics	ON
Headset	ON
Flaps	RETRACT
Weather	OBTAIN
Altimeter	SET
EFB Setup	AS DESIRED
Navigation, landing lights	ON

Run-up	
Instruments	CHECK and SET
VOR Check	IF NEEDED
Brakes	SET
Doors and windows	CLOSED, LOCKED
Flight controls	FREE and CORRECT
Fuel valve	BOTH
Mixture	RICH
	Below 3000 feet
Throttle	1700 RPM
Magnetos	CHECK
Max drop 125	RPM, max diff. 50 RPM
Engine gauges, ammeter	r CHECK
Vacuum gauge	CHECK
Carburetor heat	TEST
Idle	TEST
Mixture	GROUND LEAN
Throttle friction	ADJUST

Before Takeoff	
Radios	SET
Instruments	SET
Takeoff briefing	COMPLETE
Beacon, navigation, landing	lights ON
Carburetor heat	AS REQUIRED
Flaps	0-10°
Trim	TAKEOFF
Fuel valve	BOTH
Fuel quantity	CHECK
Mixture	RICH
	Below 3000 feet

Climb	
Airspeed	70-90 KIAS
Throttle	FULL
Mixture	RICH
	May lean above 3000 feet

Cruise	
Power	2200-2700 RPM
	No more than 75%
Trim	ADJUST
Mixture	LEAN

Descent	
Mixture	RICH
Power	AS DESIRED
Carburetor heat	AS REQUIRED
	To prevent carburetor icing

Before Landir	ng
Fuel valve	вотн
Mixture	RICH
Carburetor hea	t ON
Apply	full heat before closing throttle
Airspeed	60-70 KIAS (flaps UP)
Flaps	AS DESIRED
Airspeed	55-65 KIAS (flaps DOWN)

Balked Landing	
Throttle	FULL
Carburetor heat	COLD
Flaps	20°
Airspeed	55 KIAS
Flaps	RETRACT slowly

After Landing	
Flaps	UP
Caburetor heat	OFF
Mixture	GROUND LEAN

SET
RECORD
OFF
CUT-OFF
OFF
OFF

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DISPATCH

REMOVE

LOCK REMOVE

## **Emergency Checklists**

Life vests/raft

# Engine Failure During Takeoff Run Throttle IDLE Brakes APPLY Flaps RETRACT Mixture CUT-OFF Magnetos OFF

Engine Failure Shortly After Takeoff		
Airspeed	Flaps up: 65 KIAS	
	Flaps down: 60 KIAS	
Mixture	CUT-OFF	
Fuel valve	OFF	
Magnetos	OFF	
Flaps	AS REQUIRED	
Master	OFF	

Engine Failure During Filgi	nt
Airspeed	65 KIAS
Carburetor heat	ON
Fuel valve	BOTH
Mixture	RICH
Magnetos BOTH (START if pro	op stopped)
Primer IN a	and LOCKED

Forced Landing W	ith Engine Failure
Airspeed	Flaps up: 65 KIAS
	Flaps down: 60 KIAS
Mixture	CUT-OFF
Fuel valve	OFF
Magnetos	OFF
Flaps	AS REQUIRED
	40° recommended
Master	OFF
Doors UNLATCH E	BEFORE TOUCHDOWN
Touchdown	SLIGHTLY TAIL LOW
Brakes	APPLY HEAVILY

Precaut	ionary Landing	
Flaps		20°
Airspeed		60 KIAS
Selected	field	FLY OVER
Note t	errain/obstructions.	Retract flaps
upon	reaching a safe altit	ude and
airspe	ed.	
Radios, e	electrical switches	OFF
Flaps	40° (on fi	nal approach)
Airspeed		60 KIAS
Master		OFF
Doors	UNLATCH BEFORE	TOUCHDOWN

Touchdown Magnetos

Brakes

SLIGHTLY TAIL LOW

APPLY HEAVILY

OFF

Ditchi	ng	
Radio		MAYDAY on 121.5 MHz
		Give location, intentions
Heavy	objects	SECURE or JETTISON
Flaps		20°-40°
Power	300 FT/	MIN DESCENT AT 55 KIAS
lf ı	no power	available, approach
flaps up 65 KIAS or flaps 10° 60 KIAS		
Strong wind, heavy seas:		
LAND INTO WIND		
Light wind, heavy swells:		
LAND	) Paralli	EL TO SWELLS
Doors		UNLATCH
Touchd	own	LEVEL ATTITUDE
	at es	stablished rate of descent
Face	CUSHIO	N at touchdown with coat
Airplan	e	EVACUATE

INFLATE

<b>Engine Fire</b>	<b>During Sta</b>	rt On Ground
Cranking		CONTINUE
If engine sta	rts:	
Power	1700 RPM fo	or a few minutes
Engine		SHUTDOWN
If engine fail	s to start:	
Throttle		FULL OPEN
Mixture		CUT-OFF
Cranking	CONTINUE	for 2-3 minutes
Fire exting	uisher	OBTAIN
Master		OFF
Magnetos		OFF
Fuel valve		OFF
Fire		EXTINGUISH
Use fire	e extinguishe	er, seat cushion,
wool bl	anket, or dir	t. If practical, try
to rem	ove air filter	if it is ablaze.
Both cases: i	inspect and r	epair damage
before condu	acting anothe	er flight.

<b>Engine Fire in Flight</b>	
Mixture	CUT-OFF
Fuel valve	OFF
Master	OFF
Cabin heat & air	OFF
(except over	head vents)
Airspeed	100 KIAS
If fire is not extinguished, in	crease glide
speed to find an airspeed w	hich will
provide an incombustible m	ixture
Forced Landing With Engine	EXECUTE
Failure checklist	

## **Emergency Checklists**

<b>Electrical Fire in Flight</b>	
Master	OFF
All other switches	OFF
(except magnetos)	
Vents/cabin air/heat	CLOSE
Fire extinguisher	USE
If fire appears out and electric	al power
is necessary to continue flight	:
Master	ON
Circuit breakers	CHECK
(do not reset fault	y circuit)
Radio/electrical switches	ON
One at a time with delay	after
each until short circuit is	localized
Vents/cabin air/heat	OPEN
(when fire completely extin	guished)

Cabin Fire	
Master	OFF
Vents/cabin air/heat	CLOSED
	(to avoid drafts)
Fire extinguisher	USE
WARNING:	After discharging
extinguishe	er within a closed
cabin, vent	ilate cabin
Land ASAP inspect for	r damage

Wing Fire	
Nav lights	OFF
Pitot heat	OFF
NOTE: Sideslip to keep flames awa from fuel tanks and cabin. Land AS	У
from fuel tanks and cabin. Land AS	SAP
using flaps only as required.	

Inadventent Icin	g Encounter
Pitot heat	ON
Turn back or chang an OAT less conduc	e altitude to obtain cive to icing.
Cabin heat	FULL ON
Defroster	OPEN
Cabin air	ADJUST
Maximize defros	ster heat and airflow
Throttle	OPEN
Carburetor/air filte	r icing MONITOR
	eat as required, lean naximum RPM if ously
Land	NEAREST AIRPORT
· · · · · · · · · · · · · · · · · · ·	d ice build-up, select port landing site
With ≥ 1/4 inch ice	on the leading
edges, prepare for stall speed	significantly higher
Flaps	LEAVE RETRACTED
Open left window a windshield, if nece	and scrape ice from ssary for visibility
Forward slip if nece	essary for visibility
Approach speed	65-75 KIAS

#### Static Source Blockage

Alternate static source valve PULL ON Airspeed Use calibration table in POH section 5

Depending on level of accumulation

Perform in level attitude

Landing With a Flat Main Tire	
Approach	NORMAL
Touchdown	GOOD TIRE FIRST
	Hold airplane off flat
	tire as long as possible

Over-Voltage Lig	ht Illuminates
Master	OFF (both sides)
Master	ON
If over-voltage ligh	t illuminates again:
Flight	TERMINATE ASAP

Ammeter Shows Discharge		
Alternator	OFF	
Nonessential electrical equipment	OFF	
Flight TERMIN	IATE	
as soon as prac	tica	