## **Ground Checklists and Information**

#### N73146

CHECK IN

LOCK

INSTALL
APPLY
CLOSE
APPLY
RECORD

Securing Control lock Tie-downs, chocks Vents, windows Pitot cover

Doors

Tach, Hobbs times Flight Circle

	ecklists and
Preflight	
	ıids
Magnetos	OFF
Fuel quantity	CHECK VISUALLY
Fuel sumps	DRAIN
	t wing, fuel strainer
Inspect for cor	ntamination.
Fuel filler caps	SECURE
Engine oil level	CHECK
-	Minimum 6 quarts
Ca	bin
Pitot cover	REMOVE
POH	VERIFY PRESENT
Master	00
Flaps	EXTEND
Fuel gauges	CHECK QUANTITY
Lights	CHECK
Tach time	RECORD
Pitot heat	TEST
Master	OFF
Fire extinguisher	SECURE
Control lock	REMOVE
	nnage
Rudder gust lock	REMOVE
Control surfaces	CHECK
	vement and security
	ght
Main wheel tire	CHECK INFLATION
Aileron	CHECK INFLATION
	00.
	vement and security
	ose
Propeller, spinner_	CHECK
	or nicks and security
Landing light	CHECK CLEAR
Air filter	CHECK CLEAF
Nosewheel & strut	
Static source	CHECK CLEAF
	eft
	CHECK INFLATION
Fuel tank vent	CHECK CLEAF
Pitot tube	CHECK CLEAF
Stall warning	TEST
Aileron	CHECK
	vement and security
Fi	nal

Flight Circle

Chocks

Tie-downs

Baggage door

Tach, Hobbs times

## **Operating Checklists**

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
Release who	en engine starts
Oil pressure	CHECK
If no pressure in 30 sec	
Mixture	GROUND LEAN
Before Taxi	
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 F	RPM, max diff. 50 RPM
Engine gauges, ammeter	CHECK
Vacuum gauge	CHECK
Carburetor heat	TEST
Idle	TEST
Mixture	GROUND LEAN
Throttle friction	ADJUST

### N73146

Before Takeoff	,
Radios	SET
nstruments	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 Land	ing
Fuel valve	ВОТН
Mixture	RICH
Carburetor he	eat ON
App	ly 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

Shutdown	
Brakes	SET
Tach time	RECORD
Radios, electrical equipment	OFF
Mixture	CUT-OFF
Magnetos	OFF
Master	OFF

**Version 1 PR 45** 

DISPATCH

RECORD

REMOVE )

LOCK REMOVE

# **Emergency Checklists**

Engine Failure During Takeoff Run		
Throttle	IDLE	
Brakes	APPLY	
Flaps Mixture	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	
Flans	AS REQUIRED	

Master

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

Forcea	Landing v	vith Engine Failure
Airspeed		Flaps up: 65 KIAS
		Flaps down: 60 KIAS
Mixture		CUT-OFF
Fuel valv	e	OFF
Magneto	S	OFF
Flaps		AS REQUIRED
		40° recommended
Master		OFF
Doors	UNLATCH	BEFORE TOUCHDOWN
Touchdo	wn	SLIGHTLY TAIL LOW
Brakes		APPLY HEAVILY

**Precautionary Landing** 

Flaps	20°
Airspeed	60 KIAS
Selected field	FLY OVER
Note terrain/obstru	uctions. Retract flaps
upon reaching a sa	afe altitude and
airspeed.	
Radios, electrical swi	tches OFF
Flaps 40	° (on final approach)
Airspeed	60 KIAS
Master	OFF
Doors UNLATCH BE	FORE TOUCHDOWN
Touchdown	SLIGHTLY TAIL LOW
Magnetos	OFF
Brakes	APPLY HEAVILY

Ditching				
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			
If no power	If no power available, approach			
flaps up 65	KIAS or flaps 10° 60 KIAS			
Strong wind, hea	Strong wind, heavy seas:			
LAND INTO WIND				
Light wind, heavy swells:				
LAND PARALLEL TO SWELLS				
Doors	UNLATCH			
Touchdown	LEVEL ATTITUDE			
at es	stablished rate of descent			
Face CUSHIO	N at touchdown with coat			
Airplane	EVACUATE			
Life vests/raft	INFLATE			

<b>Engine Fire</b>	<b>During Sta</b>	rt On Ground
Cranking		CONTINUE
If engine star	ts:	
Power	1700 RPM fc	or a few minutes
Engine		SHUTDOWN
If engine fails	to start:	
Throttle		FULL OPEN
Mixture		CUT-OFF
Cranking	CONTINUE	for 2-3 minutes
Fire extingu	uisher	OBTAIN
Master		OFF
Magnetos		OFF
Fuel valve		OFF
Fire		EXTINGUISH
Use fire extinguisher, seat cushion,		
wool blanket, or dirt. If practical, try		
to remove air filter if it is ablaze.		
Both cases: inspect and repair damage		
before conducting another flight.		

Engine Fire in Flight		
Mixture	CUT-OFF	
Fuel valve	OFF	
Master	OFF	
Cabin heat & air	OFF	
(except over	head vents)	
Airspeed	100 KIAS	
If fire is not extinguished, increase glide		
speed to find an airspeed which 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 electrication	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 a	after
each until short circuit is l	ocalized
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		
extinguisher within a closed		
cabin, ventilate cabin		
Land ASAP, inspect for damage		

Wing Fire	
Nav lights	OFF
Pitot heat	OFF
NOTE: Sideslip to keep flam	ies away
from fuel tanks and cabin. I	_and ASAP
using flaps only as required	

Pitot	heat		ON
Turn	back or cl	hange altit	tude to obtain
an O	AT less co	nducive to	icing.
Cabir	n heat		FULL ON
Defro			OPEN
Cabir			ADJUST
		efroster he	eat and airflow
Throt			OPEN
Carbu		filter icing	
			required, lean
			um RPM if
1	used cor	ntinuously	DECT AIDDODT
Land	\/:\.\	,	REST AIRPORT
	_	•	ouild-up, select
		h ice on th	anding site
			icantly higher
_	speed	z ioi sigiiii	icultity inglici
Flaps	•	LEA\	VE RETRACTED
•		low and sc	rape ice from
			for visibility
			for visibility
Appro	oach spee	ed	65-75 KIAS
De	epending	on level o	f accumulation
Landi	ng	Perform in	n level attitude

**Inadventent Icing Encounter** 

# Static Source Blockage

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

<b>Landing With</b>	a Flat Main Tire
Approach	NORMAL
Touchdown	GOOD TIRE FIRST
	Hold airplane off flat
	tire as long as nossible

Over-voitage Li	gnt muminates
Master	OFF (both sides)
Master	ON
If over-voltage lig	ht illuminates again:
Flight	TERMINATE ASAP

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