## **Ground Checklists and Information** N73146

		uii
Preflight		
Fl	uids	
Magnetos		OFF
Fuel quantity	CHECK VISU	ALLY
Fuel sumps		RAIN
	t wing, fuel stra	
Inspect for con		
Fuel filler caps		URE
Engine oil level		IECK
	Minimum 6 q	
Ci	abin	
Pitot cover		IOVE
POH	VERIFY PRES	
Master	VERUI I TIME	ON
Flaps	FXT	END
Fuel gauges	CHECK QUAN	
Lights		IECK
Tach time		ORD
Pitot heat		ΓEST
Master		OFF
Fire extinguisher	SEC	URE
Control lock		IOVE
		IOVE
Rudder gust lock	ennage	IOVE
Control surfaces		IECK
Freedom of mo		
	ight	urity
Main wheel tire		riani
Aileron		IECK
Freedom of mo	ose	urity
		IECK
Propeller, spinner		
	or nicks and sec CHECK CI	
Landing light		
Air filter Nosewheel & stru	CHECK CI	
Static source	CHECK CI	LEAR
	eft	PI ( NI
	CHECK INFLA	
Fuel tank vent	CHECK CI	
Pitot tube	CHECK CI	
Stall warning		ΓEST
Aileron		IECK
Freedom of mo		urity
	inal	тог
FlightCircle	DISPA	
Baggage door		OCK
Chocks		IOVE
Tie-downs	KEM	IOVE

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

# **Operating Checklists**

Start			
Before Start			
Preflight inspection			
Passenger briefing	COMPLETE		
Brakes	TEST and SET		
Seats, belts, harnes	sses SECURE		
Fuel valve	BOTH		
Radios, electrical e	quipment 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			
Ignition switch START			
Release when engine starts			
Oil pressure	CHECK		
If no pressure in 30 seconds,			
shutdown			
Mixture	GROUND LEAN		
Before	Taxi		
Avionics	ON		
Headset	ON		
Flaps	RETRACT		
Weather	OBTAIN		
Altimeter	SET		
EFB Setup	AS DESIRED		
Navigation, landing	ı lights ON		

Run-up		
Instruments	CHECK and SET	
VOR Check	IF NEEDED	
Brakes	SET	
Doors and	CLOSED,	
windows	LOCKED	
Flight controls FF	REE 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, a	mmeter CHECK	
Vacuum gauge	CHECK	
Carburetor heat	TEST	
Idle	TEST	
Mixture	GROUND LEAN	
Throttle friction	ADJUST	

N73146

Before Takeoff		
Radios		SET
Instruments		SET
Takeoff briefing	COMPL	ETE.
Beacon, navigation	, landing	ON
lights		
Carburetor heat	AS REQUI	RED
Flaps	0	-10°
Trim	TAKE	OFF
Fuel valve	В	OTH
Fuel quantity	CH	ECK
Mixture	F	RICH
	Below 3000	feet

Version 1 PR 31

## **Emergency Checklists**

<b>Engine Failure During Takeoff Run</b>		
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 Flight		
Airspeed	65 KIAS	
Carburetor heat	ON	
Fuel valve	BOTH	
Mixture	RICH	
Magnetos	BOTH (or START if prop	
	stopped)	
Primer	IN and LOCKED	

#### **Forced Landing Without Engine** Power Flaps up: 65 KIAS Airspeed Flaps down: 60 KIAS Mixture **CUT-OFF** Fuel valve OFF Magnetos OFF Flaps AS REQUIRED 40° recommended Master OFF Doors UNLATCH BEFORE TOUCHDOWN Touchdown SLIGHTLY TAIL LOW APPLY HEAVILY **Brakes**

<b>Precautionary Landing</b>			
Flaps	20°		
Airspeed	60 KIAS		
Selected field	FLY OVER		
Note terrain/obs	structions. Retract flaps		
upon reaching a safe altitude and airspeed.			
Radios, electrical s	switches OFF		
Flaps	40° (on final approach)		
Airspeed	60 KIAS		
Master	OFF		
Doors UNLATCH	BEFORE TOUCHDOWN		
Touchdown	SLIGHTLY TAIL LOW		
Magnetos	OFF		
Brakes	APPLY HEAVILY		

Ditchin	g		
Radio		MAYDAY on 121.5 MHz	
		Give location, intentions	
Heavy ol	bjects	SECURE or JETTISON	
Flaps		20°-40°	
Power 300 FT/MIN DESCENT AT 55 KIAS			
If no p	If 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 PARALLEL TO SWELLS			
Doors		UNLATCH	
Touchdo	Touchdown LEVEL ATTITUDE		
at established rate of descent			
Face 0	CUSHIO	N at touchdown with coat	
Airplane	Airplane EVACUATE		
Life vest	Life vests/raft INFLATE		

Engine Fire	During Start (	on Grouna
Cranking		CONTINUE
If engine sta	rts:	
Power	1700 RPM for a	a few minutes
Engine		SHUTDOWN
If engine fail	s to start:	
Throttle		FULL OPEN
Mixture		CUT-OFF
Cranking	CONTINUE fo	r 2-3 minutes
Fire exting	juisher	OBTAIN
Master		OFF
Magnetos		OFF
Fuel valve		OFF
Fire		EXTINGUISH
Using fire extinguisher, seat cushion,		
wool blanket, or dirt. If practical try to		
remove air filter if it is ablaze.)		
Both cases: i	nspect and repa	ir damage

Engine Fire During Start On Ground

Engine Fire in Flight		
Mixture	CUT-OFF	
Fuel valve	OFF	
Master	OFF	
Cabin heat & air	OFF	
(except over	erhead vents)	
Airspeed	100 KIAS	
If fire is not extinguished, increase glide		
speed to find an airspeed which will		
provide an incombustible mixture		
Forced Landing Without Engine EXECUTE		
Power checklist		

before conducting another flight.

## **Emergency Checklists**

Electrical Fire in Flight		
Master	OFF	
All other switches (except	OFF	
magnetos)		
Vents/cabin air/heat	CLOSE	
Fire extinguisher	USE	
If fire appears out and electrical power		
necessary to continue flight:		
Master	ON	
Circuit breakers	CHECK	
(do not reset faulty 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 is completely exti	nguished)	

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	r damage

wing Fire		
Nav lights	OFF	
Pitot heat	OFF	
NOTE: Sideslip to keep flames aw	ay	
from fuel tanks and cabin. Land ASAP		
using flaps only as required.		

Inadventent 1	Icing Encou	ınter
Pitot heat		ON
Turn back or c	hange altitu	de to obtain
an OAT less co	nducive to i	cing.
Cabin heat		FULL ON
Defroster		OPEN
Cabin air		ADJUST
Maximize d	efroster hea	t and airflow
Throttle		OPEN
Carburetor an	d air filter	MONITOR
icing		
	b heat as red	
mixture fo	or maximum	RPM if used
continuou		
Land	NEARE	ST AIRPORT
With very rapid ice build-up, select		
suitable off-airport landing site		
With $\geq 1/4$ inch ice on the leading		
edges, prepare for significantly higher		
stall speed		
Flaps	LEAVE 1	RETRACTED
Open left window and scrape ice from		
windshield, if necessary for visibility		
Forward slip if necessary for visibility		
Approach spee	ed	65-75 KIAS
Depending	on level of a	ccumulation
Landing	Perform in l	evel attitude

### Static Source Blockage

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

### **Landing With a Flat Main Tire**

NORMAL Approach Touchdown GOOD TIRE FIRST Hold airplane off flat tire as long as possible

Over-Voltage L	ight Illuminates
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Master	OFF (both sides)
Master	ON
If over-voltage ligh	it illuminates again:
Flight	TERMINATE ASAP

Amma	ator	Shows	Disc	harge
-				uar u c

Alternator	OFF
Nonessential electrical e	equipment OFF
FlightTERMINATE as so	on as practical