### **Ground Checklists and Information**

#### N73146

# **Operating Checklists**

#### N73146

Preflight	
	ids
Magnetos	OFF
Fuel quantity	CHECK VISUALLY
Fuel sumps	DRAIN
Left wing, righ	it wing, fuel strainer.
Inspect for co	
Fuel filler caps	SECURE
Engine oil level	CHECK
	Minimum 6 quarts
	bin
Pitot cover	REMOVE
POH	VERIFY PRESENT
Master	ON
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
	vement and security
	ose
Propeller, spinner	CHECK
	or nicks and security
Landing light	CHECK CLEAR
Air filter	CHECK CLEAR
Nosewheel & strut	CHECK INFLATED
Static source	CHECK CLEAR
	eft
Main wheel tire Fuel tank vent	CHECK INFLATION
	CHECK CLEAR
Pitot tube	CHECK CLEAR TEST
Stall warning Aileron	CHECK
Freedom of mo	vement and security

Final

FlightCircle Baggage door Chocks

Tie-downs

INSTALL
APPLY
CLOSE
APPLY
RECORD
CHECK IN
LOCK

Start Before Start	
Before Start	
- 6 1	OMPLETE
0 0	OMPLETE
Brakes TEST	and SET
Seats, belts, harnesses	SECURE
Fuel valve	BOTH
Radios, electrical equipment	OFF
Circuit breakers C	HECK IN
Beacon switch	ON
Engine Start	
Mixture	RICH
Carburetor heat	COLD
Prime AS RI	EQUIRED
Throttle OPEN	1/8 INCH
Master	ON
Propeller area	CLEAR
Ignition switch	START
Release when engi	
Oil pressure	CHECK
If no pressure in 30 seconds, sl	
	ND LEAN
Before Taxi	
Avionics	ON
Headset	ON
	RETRACT
Weather	OBTAIN
Altimeter	SET
	DESIRED
Navigation, landing lights	ON

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

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	1, max diff. 50 RPM
Engine gauges, amm	eter CHECK
Vacuum gauge	CHECK
Carburetor heat	TEST
Idle	TEST
Mixture	GROUND LEAN
Throttle friction	ADJUST

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DISPATCH LOCK REMOVE

REMOVE

## **Emergency Checklists**

OFF

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

Engine Failure During Fli	ght
Airspeed	65 KIAS
Carburetor heat	ON
Fuel valve	BOTH
Mixture	RICH
Magnetos BOTH (or START	if prop stopped)
Primer	IN and LOCKED

Forced L	anding Without Engine P	ower
Airspeed	Flaps up:	65 KIAS
	Flaps down:	60 KIAS
Mixture	C	UT-OFF
Fuel valve	e	OFF
Magneto	S	OFF
Flaps	AS RE	QUIRED
	40° recomr	nended
Master		OFF
Doors	UNLATCH BEFORE TOUCH	<b>HDOWN</b>
Touchdo	wn SLIGHTLY TA	AIL LOW
Brakes	APPLY I	HEAVILY

Precauti	onary Landi	ing
Flaps		20°
Airspeed		60 KIAS
Selected	field	FLY OVER
Note	terrain/obstr	ructions. Retract flaps
upon	reaching a s	afe altitude and
airspe	eed.	
Radios, e	lectrical swite	ches OFF
Flaps	40	0° (on final approach)
Airspeed		60 KIAS
Master		OFF
Doors	UNLATCH B	BEFORE TOUCHDOWN
Touchdov	vn	SLIGHTLY TAIL LOW
Magneto:	S	OFF
Brakes		APPLY HEAVILY

Ditching		
Radio		MAYDAY on 121.5 MHz
		Give location, intentions
Heavy ob	jects	SECURE or JETTISON
Flaps		20°-40°
Power	300 FT	MIN DESCENT AT 55 KIAS
If no p	ower av	ailable, approach flaps up
65 KIA	S or flap	s 10° 60 KIAS
Strong w	Strong wind, heavy seas:	
LAND I	NTO WIN	ND
Light wind, heavy swells:		
LAND F	PARALLEI	L TO SWELLS
Doors		UNLATCH
Touchdo	wn	LEVEL ATTITUDE
	at e	stablished rate of descent
Face	<b>CUSHIO</b>	N at touchdown with coat
Airplane		EVACUATE
Life vests	/raft	INFLATE

Life vests/raft	INFLATE
<b>Engine Fire D</b>	uring Start On Ground
Cranking	CONTINUE
If engine start	5:
Power	1700 RPM for a few minutes
Engine	SHUTDOWN
If engine fails	to start:
Throttle	FULL OPEN
Mixture	CUT-OFF
Cranking	CONTINUE for 2-3 minutes
Fire extingu	isher OBTAIN
Master	OFF
Magnetos	OFF
Fuel valve	OFF
Fire	EXTINGUISH
Using fire ext	inguisher, seat cushion, wool
	rt. lf practical try to remove
air filter if it is	ablaze.)
	spect and repair damage
before conduction	ting another flight.

Engine Fire in Flight	
Mixture	CUT-OFF
Fuel valve	OFF
Master	OFF
Cabin heat & air	OFF
(except overh	nead vents)
Airspeed	100 KIAS
If fire is not extinguished, inc	
speed to find an airspeed wh	nich will
provide an incombustible mi	xture
Forced Landing Without Engine	EXECUTE
Power checklist	

## **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 electrica	l power
necessary to continue flight:	
Master	ON
Circuit breakers	CHECK
(do not reset fault	ty circuit)
Radio/electrical switches	ON
One at a time with delay a	fter each
until short circuit is localize	ed
Vents/cabin air/heat	OPEN
(when fire is completely extin	guished)

Cabili File	
Master	OFF
Vents/cabin air/heat	CLOSED
	(to avoid drafts)
Fire extinguisher	USE
WARNING: After	discharging
extinguisher within a closed cabir	
ventilate cabin	
Land ASAP, inspect for	r damage

Wing Fire	
Nav lights	OFF
Pitot heat	OFF
NOTE: Sideslip to keep flames	away
from fuel tanks and cabin. Lan	nd ASAP
using flaps only as required.	

Inadventent Icing Encounter		
Pitot heat		ON
Turn back or	change altitu	ıde to obtain
an OAT less o	onducive to	icing.
Cabin heat		FULL ON
Defroster		OPEN
Cabin air		ADJUST
Maximize	defroster he	eat and airflow
Throttle		OPEN
		ing MONITOR
		equired, lean
		m RPM if used
continu		
Land		REST AIRPORT
		uild-up, select
	off-airport l	
With ≥ 1/4 in		_
edges, prepa	re for signific	antly higher
stall speed	150	/F DETD / CTED
Flaps		/E RETRACTED
Open left wir		
windshield, if		
Forward slip		
Approach sp		65-75 KIAS
		accumulation
Landing	Perform in	n level attitude

#### Static Source Blockage

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

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

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

Over-voltage Light Illuminates		
Master	OFF (both sides)	
Master	ON	
If over-voltage li	ght illuminates again:	
Flight	TERMINATE ASAP	

Ammeter 5	nows Discharge	
Alternator		OFF
Nonessentia	al electrical equipment	OFF
Flight TER	MINATE as soon as prac	ctical