Ground Checklists and Information

N73146

Operating Checklists

N73146

Ground Ch	eckiists aiic
Preflight	
	uids
Magnetos	OFF
Fuel quantity	CHECK VISUALLY
Fuel sumps	DRAIN
	nt wing, fuel strainer.
Inspect for co	
Fuel filler caps	SECURE
Engine oil level	CHECK
	Minimum 6 quarts
Ca	abin
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
	ennage
Rudder gust lock	REMOVE
Control surfaces	CHECK
Freedom of mo	vement and security
	ght
Main wheel tire	CHECK INFLATION
Aileron	CHECK
Freedom of mo	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	CHECK INFLATION
Fuel tank vent	CHECK CLEAR
Pitot tube	CHECK CLEAR
Stall warning	TEST
Aileron	CHECK
	vement and security
	nal
Flight Circle	
Tach, Hobbs times	DISPATCH RECORD
iacii, nobbs times	KECURD

Baggage door Chocks Tie-downs

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Securing	
Control lock	INSTALL
Tie-downs, chocks	APPLY
Vents, windows	CLOSE
Pitot cover	APPLY
Tach, Hobbs times	RECORD
Flight Circle	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
	en engine starts
Oil pressure	CHECK
If no pressure in 30 seco	
Mixture	GROUND LEAN
Before Taxi	
Avionics	ON
Headset	ON
Flaps	RETRACT
Weather	OBTAIN
Altimeter	SET
EFB Setup	AS DESIRED
Navigation, landing lights	ON

CHECK and SET
IF NEEDED
SET
CLOSED, LOCKED
FREE and CORRECT
вотн
RICH (below 3000 feet)
1700 RPM
CHECK
5 RPM, max diff. 50 RPM
neter CHECK
CHECK
TEST
TEST
GROUND LEAN
ADJUST

Before Takeoff		
Radios		SET
nstruments		SET
Takeoff briefing		COMPLETE
Beacon, navigation,		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 (lean above 3000 feet)

Cruise	
Power	2200-2700 RPM
	No more than 75% power
Trim	ADJUST
Mixture	LEAN (for max RPM)

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

Before Landin	g
Fuel valve	вотн
Mixture	RICH
Carburetor heat	ON
Apply fu	III 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

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LOCK REMOVE

REMOVE)

Engine Failures, Forced Landings

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 Flight		
Airspeed	65 KIAS	
Carburetor heat	ON	
Fuel valve	вотн	
Mixture	RICH	
Magnetos	вотн	
	(START if prop stopped)	
Primer	IN and LOCKED	

Forced Landing	With 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	BEFORE TOUCHDOWN
Touchdown	SLIGHTLY TAIL LOW
Brakes	APPLY HEAVILY

Precautionary Lan	ding
Flaps	20°
Airspeed	60 KIAS
Selected field	FLY OVER
Note teri	rain/obstructions.
	laps upon reaching
a safe al	titude and airspeed.
Radios, electrical sw	itches 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 obje	cts SECURE or JETTISON	
Flaps	20°-40°	
Power 300	FT/MIN DESCENT AT 55 KIAS	
If no po	wer available, approach	
flaps up	65 KIAS or flaps 10° 60 KIAS	
Strong wind	d, heavy seas:	
LAND INTO WIND		
Light wind, heavy swells:		
Land Paf	RALLEL TO SWELLS	
Doors	UNLATCH	
Touchdown	LEVEL ATTITUDE	
â	at established rate of descent	
Face CUS	HION at touchdown with coat	
Airplane	EVACUATE	
Life vests/ra	aft INFLATE	
·		

Fires, Icing, Flat Tire, Electrical

Engine Fire During Start On Ground	
Cranking	CONTINUE
If engine starts:	
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 extinguish	ner 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
(exc	cept overhead vents)
Airspeed	100 KIAS
If fire is not extin	guished, increase
glide speed to fir	nd an airspeed which
will provide an in	combustible mixture
Forced Landing With	EXECUTE
Engine Failure checklist	

Electrical Fire in Flight	
Master	OFF
All other switches (except magnetos) OFF
Vents/cabin air/heat	CLOSE
Fire extinguisher	USE
If fire appears out and electrical power is	
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

Cabin Fire	
Master	OFF
Vents/cabin air/heat	CLOSED
	(to avoid drafts)
Fire extinguisher	USE
WARNING: After dischar	ging extinguisher
within a closed cabin, ve	entilate cabin
Land ASAP, inspect for dama	age

(when fire completely extinguished)

Wing Fire	
Nav lights	OFI
Pitot heat	OFI
NOTE: Sideslip to keep flames away frough tanks and cabin. Land ASAP using only as required.	

Inadventent Icing	Encounter	
Pitot heat	ON	
Turn back or change altitude to obtain an		
OAT less conducive	to icing.	
Cabin heat	FULL ON	
Defroster	OPEN	
Cabin air	ADJUST	
Maximize o	defroster heat and airflow	
Throttle	OPEN	
Carburetor/air filter	icing MONITOR	
Apply carb heat as required, lean mixture		
for maximum RF	PM if used continuously	
Land	NEAREST AIRPORT	
•	rapid ice build-up, select off-airport landing site	
	on the leading edges,	
	ntly higher stall speed	
Flaps	LEAVE RETRACTED	
Open left window and scrape ice from		
windshield, if necessary for visibility		
Forward slip if neces	sary for visibility	
Approach speed	65-75 KIAS	
Depending	on level of accumulation	
Landing	Perform in level attitude	

Alternate static source	valve PULL ON				
Airspeed	Use calibration table				
	in POH section 5				
Landing With a Flat Main Tire					
Approach	NORMAL				
Touchdown	COOD TIRE EIRCT				

Static Source Blockage

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

Over-Voltage Light Illuminates

Master	OFF (both sides)			
Master	ON			
If over-voltage light illuminates again:				
Flight	TERMINATE ASAP			

Ammeter Si	nows Discharge	
Alternator		OFF
Nonessential	electrical equipment	OFF
Flight	TERMINATE as soon as	practical