formation

| Ground Cn | eckiists and | Information |
|----------------------------------|----------------------|-------------------|
| Preflight | | Securing |
| Flu | ıids | Control lock |
| Magnetos | OFF | Tie-downs, chocks |
| Fuel quantity | CHECK VISUALLY | Vents, windows |
| Fuel sumps | DRAIN | Pitot cover |
| Left wing, right | wing, fuel strainer. | Tach, Hobbs times |
| Inspect for con | tamination. | FlightCircle |
| Fuel filler caps | SECURE | Doors |
| Engine oil level | CHECK | |
| J | Minimum 6 quarts | |
| Ca | 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 | |
| Empe | nnage | |
| Rudder gust lock | REMOVE | |
| Control surfaces | CHECK | |
| Freedom of movement and security | | |
| Ri | ght | |
| Main wheel tire | CHECK INFLATION | |
| Ailoron | CHECK | |

| Ground Ch | ecklists and |
|--------------------|----------------------|
| Preflight | |
| | ıids |
| Magnetos | OFF |
| Fuel quantity | CHECK VISUALLY |
| Fuel sumps | DRAIN |
| | wing, fuel strainer. |
| Inspect for con | tamination. |
| Fuel filler caps | SECURE |
| Engine oil level | CHECK |
| | Minimum 6 quarts |
| Ca | 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 |
| | ement and security |
| | ght |
| Main wheel tire | CHECK INFLATION |
| Aileron | CHECK |
| | ement and security |
| | ose |
| Propeller, spinner | CHECK |
| | r nicks and security |
| Landing light | CHECK CLEAR |
| Air filter | CHECK CLEAR |
| Nosewheel & strut | |
| Static source | CHECK CLEAR |
| | eft |
| Main wheel tire | CHECK INFLATION |
| Fuel tank vent | CHECK CLEAR |
| Pitot tube | CHECK CLEAR |
| Stall warning | TEST |
| Aileron | CHECK |
| | ement and security |
| | nal |
| FlightCircle | DISPATCH |
| Baggage door | LOCK |
| Chocks | REMOVE |
| Tie downs | DEMOVE |

Tie-downs

N73146

INSTALL

APPLY

CLOSE **APPLY**

RECORD

CHECK IN LOCK

Operating Checklists

| Start | |
|--------------------------|--------------|
| Before Star | t |
| Preflight inspection | COMPLETE |
| Passenger briefing | COMPLETE |
| Brakes T | EST and SET |
| Seats, belts, harnesses | SECURE |
| Fuel valve | BOTH |
| Radios, electrical equip | |
| Circuit breakers | CHECK IN |
| Beacon switch | ON |
| Engine Star | |
| Mixture | RICH |
| Carburetor heat | COLD |
| | AS REQUIRED |
| | PEN 1/8 INCH |
| Master | ON |
| Propeller area | CLEAR |
| Ignition switch | START |
| Release when | |
| Oil pressure | CHECK |
| If no pressure in | 30 seconds, |
| shutdown | DOLLARD LEAN |
| | ROUND LEAN |
| Before Taxi | |
| Avionics | ON |
| Headset | ON |
| Flaps | RETRACT |
| Weather | OBTAIN |
| Altimeter | SET |
| EFB Setup | AS DESIRED |
| Navigation, landing ligh | ts ON |

| N73146 | |
|--------|--|
|--------|--|

| 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 1 RPM | 25 RPM, max diff. 50 |
| Engine gauges, | ammeter 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 ON |
| lights | |
| Carburetor heat | AS REQUIRED |
| Flaps | 0-10° |
| Trim | TAKEOFF |
| Fuel valve | BOTH |
| Fuel quantity | CHECK |
| Mixture | RICH |
| | Below 3000 feet |

Version 1 PR 25

REMOVE

Emergency Checklists

| 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 | BOTH |
| Mixture | RICH |
| Magnetos BOTH (or START | if prop stopped) |
| Primer | IN and LOCKED |

Forced Landing Without Engine

| Power | | |
|------------|---------|---------------------|
| Airspeed | | Flaps up: 65 KIAS |
| | | Flaps down: 60 KIAS |
| Mixture | | CUT-OFF |
| Fuel valve | ة | OFF |
| Magnetos | | OFF |
| Flaps | | AS REQUIRED |
| | | 40° recommended |
| Master | | OFF |
| Doors | UNLATCH | BEFORE TOUCHDOWN |
| Touchdow | 'n | SLIGHTLY TAIL LOW |
| Brakes | | APPLY HEAVILY |

Precautionary Landing

| 20° |
|-----------------------|
| 60 KIAS |
| FLY OVER |
| ctions. Retract flaps |
| ife altitude and |
| |
| ches OFF |
| on final approach) |
| 60 KIAS |
| OFF |
| FORE TOUCHDOWN |
| SLIGHTLY TAIL LOW |
| OFF |
| APPLY HEAVILY |
| |

DitchingRadio 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 ava | ailable, approach flaps up |
| 65 KIAS or flap | s 10° 60 KIAS |
| Strong wind, hea | vy seas: |

LAND INTO WIND
Light wind, heavy swells:

LAND PARALLEL TO SWELLS
Doors

Touchdown LEVEL ATTITUDE at established rate of descent Face CUSHION at touchdown with coat Airplane EVACUATE Life vests/raft INFLATE

UNLATCH

Engine Fire During Start On Ground

| Cranking | CONTINUE | |
|--|------------------------------|--|
| If engine start | s: | |
| 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 exti | nguisher, seat cushion, wool | |
| blanket, or dirt. If practical try to remove | | |
| air filter if it is | ablaze.) | |
| Both cases: in | spect and repair damage | |

Engine Fire in Flight

before conducting another flight.

| Mixture | CUT-OFF |
|---------------------------|---------------------|
| Fuel valve | OFF |
| Master | OFF |
| Cabin heat & air | OFF |
| (excep | ot overhead vents) |
| Airspeed | 100 KIAS |
| If fire is not extinguish | ned, increase glide |
| speed to find an airsp | eed which will |
| provide an incombust | ible mixture |
| Forced Landing Without | Engine EXECUTE |
| Power checklist | |

Emergency Checklists

Pitot heat

| 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 electric | al power |
| 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 | fter each |
| until short circuit is localize | ed |
| Vents/cabin air/heat | OPEN |
| (when fire is completely extin | auished) |

Cabin Fire

| Master | OFF |
|------------------------|---------------------|
| Vents/cabin air/heat | CLOSED |
| | (to avoid drafts) |
| Fire extinguisher | USE |
| WARNING: After | discharging |
| extinguisher with | nin a closed cabin, |
| ventilate cabin | |
| Land ASAP, inspect for | or damage |

Wing Fire

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

Inadventent Icing Encounter

| ritut neat | ON |
|-------------------|------------------------|
| Turn back or chan | ge altitude to obtain |
| an OAT less condu | ucive to icing. |
| Cabin heat | FULL ON |
| Defroster | OPEN |
| Cabin air | ADJUST |
| Maximize defro | ster heat and airflow |
| Throttle | OPEN |
| Carburetor and ai | r filter icing MONITOR |
| Apply carb h | eat as required, lean |
| mixture for n | naximum RPM if used |
| continuously | |
| Land | MEADECT AIDDODT |

ON

Land NEAREST AIRPORT
With very rapid ice build-up, select
suitable off-airport landing site
With ≥ 1/4 inch ice on the leading
edges, prepare for significantly higher
stall speed

Flaps LEAVE RETRACTED
Open left window and scrape ice from
windshield, if necessary for visibility
Forward slip if necessary for visibility
Approach speed 65-75 KIAS
Depending on level of accumulation
Landing Perform in 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 | light illuminates again: |
| Flight | TERMINATE ASAP |

Ammeter Shows Discharge

| Alternator | OFF |
|-----------------------------------|-------|
| Nonessential electrical equipment | OFF |
| Flight TERMINATE as soon as prac | tical |