### Preflight Inspection

**INTERIOR INSPECTION (cont.)**
- Master Switch : **ON**
- Turn Coordinator : **ON**
- Check audible, then **OFF**
- Fuel Quantity : **CHECK**
- Flaps : **EXTEND**
- Lights : **ON/INSPECT/OFF**
- Master Switch : **OFF**
- Oxygen (if required) : **CHECK**

**EXTERIOR INSPECTION**
- Right Wing
  - Flaps & Aileron : **CHECK**
  - Leading Edge : **CHECK**
  - Tie Down : **REMOVE**
  - Fuel Quantity : **CHECK**
  - Fuel Cap : **SECURE**
  - Fuel Tank Vent : **OPEN**
  - Fuel Overflow : **OPEN**
  - Main Gear Strut : **2 ¾ inch**
  - Main Tire : **CHECK**
- Nose
  - Fuel Sump : **DRAIN**
  - Windshield : **CLEAN**
  - Engine Compartment : **CHECK**
  - Generator Belt : **CHECK**
  - Brake Fluid : **CHECK**
  - Oil Quantity (9-10 qts) : **CHECK**
  - Dipstick : **SECURE**
  - Oil Inspection Cover : **SECURE**
  - Air Inlets : **CLEAR**
  - Propeller : **CHECK for nicks**
  - Prop. Area : **CHECK for debris**
  - Nose Gear Strut : **2 ¾ inch**
  - Nose Tire : **CHECK**

### Exterior Inspection

**ENGINE START (COLD)**
- Throttle : **OPEN 1/4 INCH**
- Mixture : **FULL RICH**
- Propeller : **FULL FWD**
- Master Switch : **ON**
- Beacon : **ON**
- Fuel Pump : **ON**
- Fuel Pressure : **CHECK**
- Fuel Pump : **OFF**
- Primer : **3-5 STROKES**
- Propeller Area : **CLEAR**
- Starter : **ENGAGE**
- Throttle : **1000 RPM**
- Oil Pressure : **CHECK**
- Mixture : **LEAN for taxi**
- Fuel Pump : **OFF**
- Ammeter : **CHECK**

**ENGINE START (HOT)**
- Throttle : **OPEN 1/4 INCH**
- Mixture : **FULL RICH**
- Propeller : **FULL FWD**
- Master Switch : **ON**
- Beacon : **ON**
- Fuel Pump : **ON**
- Fuel Pressure : **CHECK**
- Fuel Pump : **OFF**
- Primer : **IN and LOCKED**
- Propeller Area : **CLEAR**
- Starter : **ENGAGE**
- Throttle : **1000 RPM**
- Oil Pressure : **CHECK**
- Mixture : **LEAN for TAxI**
- Fuel Pump : **OFF**
- Ammeter : **CHECK**

**BEFORE ENGINE START**
- Preflight Inspection : **COMPLETE**
- Passenger Briefing : **COMPLETE**
- Seats and Belts : **SECURE**
- Parking Brake : **SET**
- Carburetor Heat : **COLD**
- Fuel Selector : **FULLEST TANK**
- Circuit Breakers : **CHECK IN**
- Avionics Master : **OFF**
- Door : **LATCHED**
- This checklist was based on the POH/AFM, however no guarantee is made for its accuracy!
### Piper Comanche 250

**ENGINE START (FLOODED)**

- Throttle: FULL OPEN
- Mixture: IDLE CUTOFF
- Propeller: FULL FWD
- Master Switch: ON
- Beacon: ON
- Fuel Pump: OFF
- Primer: IN and LOCKED
- Propeller Area: CLEAR
- Starter: ENGAGE
- Throttle: RETARD to 1000 RPM
- Mixtures: ADVANCE
- Oil Pressure: CHECK
- Mixtures: LEAN for Taxi
- Ammeter: CHECK

**TAXI**

- Avionics Master: ON
- Radios/Avionics: SET
- Transponder: STBY
- Turn Coordinator: ON
- Flaps: RETRACT
- Primer: IN and LOCKED
- Landing Gear Indicator: CHECK
- Parking Brake: RELEASE
- Throttle: APPLY SLOWLY
- Brakes: TEST
- Steering: CHECK
- Flight Instruments: CHECK

**BEFORE TAKEOFF**

- Fuel Pump: ON
- Fuel Selector: FULLEST TANK
- Carburetor Heat: OFF
- Flaps (as required): SET
- Trim: NEUTRAL
- Heading Indicator: SET
- Transponder: ALT
- Engine Gauges: NORMAL
- Strobe Light: ON
- Emerg. Procedures: REVIEW

**RUNUP**

- Parking Brake: SET
- Seats/Belts: SECURE
- Doors/Windows: CLOSED
- Controls: FREE & CORRECT
- Fuel Quantity: CHECK
- Mixture: LEAN for altitude
- Propeller: CYCLE 3X
- Magneto: CHECK
- Oil Pressure: CHECK
- Oil Pressure: check GREEN
- Throttle: IDLE then 1000 RPM
- Flight Instruments: SET
- Parking Brake: RELEASE

**NORMAL TAKEOFF**

- Throttle: Full OPEN
- Engine Gauges: NORMAL
- Rotate: 85 MPH
- Climb: 95 MPH
- Gear: UP
- Gear Selector: NEUTRAL

**SHORT-FIELD TAKEOFF**

- Flaps: 18° (2nd notch)
- Trim: SET
- Control Wheel: full AFT
- Throttle: APPLY SLOWLY
- Accelerate in ground effect after breaking ground
- Climb: 84 MPH (Vx)
- Gear: UP
- Climb: 105 MPH (Vy)
- Flaps: RETRACT
- Power: AS REQUIRED
- Above 1,000 ft. AGL
- Climb: ENROUTE SPEED

**SOFT-FIELD TAKEOFF**

- Climb: 84 MPH (Vx)
- Best Angle (Vx): 84 MPH
- Best Rate (Vy): 105 MPH
- Enroute: 100-120 MPH
- CHT/EGT: CHECK
- Mixture: LEAN for ASCENT

**CLIMB**

- Power: REDUCE at 1,000’ AGL
- Best Angle (Vx): 84 MPH
- Best Rate (Vy): 105 MPH
- Enroute: 100-120 MPH
- CHT/EGT: CHECK
- Mixture: LEAN for ASCENT

**CRUISE**

- Throttle: SET
- Propeller: SET
- Mixtures: SET
- Fuel Pump: OFF
- Fuel Pressure: VERIFY
- Engine Gauges: CHECK
- Trim: SET
- Heading Indicator: SET

**DESCENT**

- Propeller: CRUISE RPM
- Manifold Pressure: 15-17” Hg
- Airspeed: MAINTAIN
- Climb: CHT/EGT in GREEN
- Mixture: ENRICH in descent

**BEFORE LANDING**

- Seat Backs: UPRIGHT
- Seats/Belts: SECURE
- Fuel Pump: ON
- Fuel Selector: FULLEST TANK
- Fuel Pressure: VERIFY
- Gear: DOWN (125 MPH)
- Gear Indicator: GREEN
- Flaps: AS REQ. (125 MPH)

*This checklist was based on the POH/AFM, however no guarantee is made for its accuracy!
### BEFORE LANDING (cont.)

<table>
<thead>
<tr>
<th>Item</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trim</td>
<td>SET</td>
</tr>
<tr>
<td>Mixture</td>
<td>ENRICH (as req.)</td>
</tr>
<tr>
<td>Propeller</td>
<td>FULL FWD</td>
</tr>
<tr>
<td>GUMPS Check</td>
<td>ON FINAL</td>
</tr>
<tr>
<td>Approach Speed</td>
<td>85 MPH</td>
</tr>
</tbody>
</table>

### SOFT-FIELD LANDING

<table>
<thead>
<tr>
<th>Item</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gear</td>
<td>VERIFY DOWN</td>
</tr>
<tr>
<td>Airspeed</td>
<td>80 MPH FINAL</td>
</tr>
<tr>
<td>Flaps</td>
<td>Down (27°)</td>
</tr>
<tr>
<td>Throttle</td>
<td>carry POWER until flare</td>
</tr>
<tr>
<td>Touchdown</td>
<td>MAINS first</td>
</tr>
<tr>
<td>Add power</td>
<td>to keep nosewheel off the ground, hold</td>
</tr>
<tr>
<td>Brakes</td>
<td>elevator full aft</td>
</tr>
<tr>
<td>MINIMAL</td>
<td></td>
</tr>
</tbody>
</table>

### SHORT FIELD LANDING

<table>
<thead>
<tr>
<th>Item</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Pump</td>
<td>ON</td>
</tr>
<tr>
<td>Gear</td>
<td>VERIFY DOWN</td>
</tr>
<tr>
<td>Airspeed</td>
<td>80 MPH FINAL</td>
</tr>
<tr>
<td>Flaps</td>
<td>Down (27°)</td>
</tr>
<tr>
<td>Power</td>
<td>IDLE</td>
</tr>
<tr>
<td>Touchdown</td>
<td>MAINS first</td>
</tr>
<tr>
<td>Brakes</td>
<td>APPLY</td>
</tr>
<tr>
<td>Flaps</td>
<td>RETRACT</td>
</tr>
<tr>
<td>Elevator</td>
<td>FULL AFT</td>
</tr>
</tbody>
</table>

### GO-AROUND

<table>
<thead>
<tr>
<th>Item</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Climb</td>
<td>FULL OPEN</td>
</tr>
<tr>
<td>Throttle</td>
<td>.95 MPH</td>
</tr>
<tr>
<td>Gear</td>
<td>UP</td>
</tr>
<tr>
<td>Climb</td>
<td>105 MPH</td>
</tr>
<tr>
<td>Flaps</td>
<td>RETRACT</td>
</tr>
<tr>
<td>Power</td>
<td>as Req. (abv. 1000 ‘ AGL)</td>
</tr>
</tbody>
</table>

### AFTER LANDING

<table>
<thead>
<tr>
<th>Item</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flaps</td>
<td>RETRACT</td>
</tr>
<tr>
<td>Transponder</td>
<td>STBY</td>
</tr>
<tr>
<td>Landing Light</td>
<td>OFF</td>
</tr>
<tr>
<td>Strobe Light</td>
<td>OFF</td>
</tr>
<tr>
<td>Fuel Pump</td>
<td>OFF</td>
</tr>
</tbody>
</table>

### SHUTDOWN

<table>
<thead>
<tr>
<th>Item</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Throttle</td>
<td>IDLE</td>
</tr>
<tr>
<td>Electrical Equipment</td>
<td>OFF</td>
</tr>
<tr>
<td>Avionics Master</td>
<td>OFF</td>
</tr>
<tr>
<td>Propeller</td>
<td>FULL FWD</td>
</tr>
<tr>
<td>Mixture</td>
<td>IDLE cutoff</td>
</tr>
<tr>
<td>Ignition</td>
<td>OFF</td>
</tr>
<tr>
<td>Master Switch</td>
<td>OFF</td>
</tr>
<tr>
<td>Beacon</td>
<td>OFF</td>
</tr>
<tr>
<td>Control Wheel</td>
<td>SECURE</td>
</tr>
<tr>
<td>Doors/Windows</td>
<td>LOCKED</td>
</tr>
<tr>
<td>Tie-Downs</td>
<td>SECURE</td>
</tr>
<tr>
<td>Flight Plan</td>
<td>CLOSE</td>
</tr>
</tbody>
</table>

### TOUCHDOWN

**MAINS first**

### EMERGENCY PROCEDURES

#### ENGINE POWER LOSS

**DURING FLIGHT**

<table>
<thead>
<tr>
<th>Item</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airspeed</td>
<td>100 MPH</td>
</tr>
<tr>
<td>Landing Site</td>
<td>LOCATE</td>
</tr>
<tr>
<td>Fuel Selector</td>
<td>FULLEST TANK</td>
</tr>
<tr>
<td>Fuel Pump</td>
<td>IDLE</td>
</tr>
<tr>
<td>Ignition</td>
<td>CHECK ON</td>
</tr>
<tr>
<td>Mixture</td>
<td>IDLE CUTOFF</td>
</tr>
<tr>
<td>Carburetor Heat</td>
<td>OFF</td>
</tr>
<tr>
<td>Fuel Pump</td>
<td>FULL AFT</td>
</tr>
</tbody>
</table>

**IF POWER IS RESTORED**

<table>
<thead>
<tr>
<th>Item</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carburetor Heat</td>
<td>OFF</td>
</tr>
<tr>
<td>Fuel Pump</td>
<td>FULL AFT</td>
</tr>
</tbody>
</table>

**IF POWER IS NOT RESTORED**

**PREPARE FOR FORCED LANDING**

### EMERGENCY PROCEDURES

#### PROPELLER OVERSPEED

<table>
<thead>
<tr>
<th>Item</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Throttle</td>
<td>RETARD</td>
</tr>
<tr>
<td>Oil Pressure</td>
<td>CHECK</td>
</tr>
<tr>
<td>Propeller</td>
<td>FULL AFT</td>
</tr>
<tr>
<td>Set if any control available</td>
<td></td>
</tr>
<tr>
<td>Airspeed</td>
<td>REDUCE</td>
</tr>
<tr>
<td>Throttle</td>
<td>AS REQUIRED TO REMAIN BELOW 2575 RPM</td>
</tr>
<tr>
<td>Flaps</td>
<td>AS REQUIRED</td>
</tr>
<tr>
<td><strong>loss of oil pressure will increase RPM</strong></td>
<td></td>
</tr>
<tr>
<td>Land as soon as possible</td>
<td></td>
</tr>
</tbody>
</table>

### EMERGENCY PROCEDURES

#### COMPASS EQUIPMENT

**IF GEAR IS NOT DOWN AND LOCKED**

<table>
<thead>
<tr>
<th>Item</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Pump</td>
<td>OFF</td>
</tr>
<tr>
<td>Ignition</td>
<td>CHECK OFF</td>
</tr>
<tr>
<td>Indicator Bulbs</td>
<td>CHECK</td>
</tr>
<tr>
<td>Navigation Lights</td>
<td>CHECK OFF</td>
</tr>
<tr>
<td>Transponder</td>
<td>CHECK</td>
</tr>
<tr>
<td>Avionics Master</td>
<td>CHECK ON</td>
</tr>
<tr>
<td>Engine Gauges</td>
<td>CHECK</td>
</tr>
<tr>
<td>Carburetor Heat</td>
<td>IDLE CUTOFF</td>
</tr>
<tr>
<td>Ignition</td>
<td>CHECK</td>
</tr>
<tr>
<td>Fuel Pump</td>
<td>IDLE</td>
</tr>
<tr>
<td>Mixture</td>
<td>CHECK</td>
</tr>
<tr>
<td>Oil Pressure</td>
<td>CHECK</td>
</tr>
<tr>
<td>Propeller</td>
<td>CHECK</td>
</tr>
<tr>
<td>Airspeed</td>
<td>121.5</td>
</tr>
<tr>
<td>Transponder</td>
<td>7700</td>
</tr>
<tr>
<td>ELT</td>
<td>ACTIVATE MANUALLY</td>
</tr>
<tr>
<td>Throttle</td>
<td>CLOSED</td>
</tr>
<tr>
<td>Fuel Selector</td>
<td>CLOSED</td>
</tr>
<tr>
<td>Mixture</td>
<td>IDLE CUTOFF</td>
</tr>
<tr>
<td>Ignition</td>
<td>AS REQUIRED</td>
</tr>
<tr>
<td>Seat Belts</td>
<td>SECURE</td>
</tr>
<tr>
<td>Door</td>
<td>OPEN</td>
</tr>
<tr>
<td>Flaps</td>
<td>AS REQUIRED</td>
</tr>
<tr>
<td>Gear</td>
<td>DOWN (before touchdown)</td>
</tr>
<tr>
<td>Doors</td>
<td>UNLATCH</td>
</tr>
<tr>
<td>Master Switch</td>
<td>OFF</td>
</tr>
<tr>
<td>Touchdown</td>
<td>SLOWEST PRACTICAL AIRSPEED</td>
</tr>
</tbody>
</table>

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EMERGENCY PROCEDURES

ENGINE ROUGHNESS

Carburetor Heat.................ON
Mixture..........................ADJUST
Fuel Pump........................ON
Fuel Selector...........SWITCH TANKS
Engine Gauges.................CHECK
Magneto......................CHECK

When ice is cleared:

Carburetor Heat..............OFF
Throttle...........NORMAL CRUISE
Mixture..........ADJUST for smoothness
Manifold Pressure..........MONITOR

OPEN DOOR IN FLIGHT

Airspeed........BELOW 100 MPH
Cabin Vents................CLOSE
Storm Window..............OPEN
Slip Airplane.....DOOR INTO WIND
Latch................SECURE

SPIN RECOVERY

Throttle....................IDLE
Ailerons................NEUTRAL
Rudder...........FULL OPPOSITE
Control Wheel..........FORWARD
Rudder...............NEUTRAL
Control Wheel..BACK PRESSURE

EMERGENCY PROCEDURES

FIRE DURING ENGINE START

Cranking............CONTINUE
Mixture.............IDLE CUTOFF
Throttle...............FULL OPEN
Fuel Pump................OFF
Fuel Selector...........OFF

*IF ENGINE FAILS TO START*

Cranking............CONTINUE
Fire Extinguisher........OBTAIN
Master......................OFF
Ignition....................OFF

ABANDON IF FIRE CONTINUES

ENGINE FIRE IN FLIGHT

Throttle..............CLOSED
Mixture.........IDLE CUTOFF
Fuel Selector..........OFF
Fuel Pump........OFF
Heater/Defroster......OFF
Gear...........AS NECESSARY
Airspeed........BEST GLIDE or greater
Power OFF landing...EXECUTE

ELECTRICAL FIRE

Master Switch..............OFF
Generator Circ. Breaker...PULL
Vents......................OFF
Door (as required).........OPEN
Fire Extinguisher........ACTIVATE
Cabin Heat................OFF
Initiate Manual Gear Extension

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