

PIPER PA-44-180 | G430

Quick Reference Checklist



| | | | | | |
|-------------------|--------|---------------------|--------|---------------------|-------------|
| ATIS | 126.95 | Ground Tower | 121.60 | Air to Air | 122.75 |
| RFS Unicom | 122.77 | | 124.70 | SEA Approach | 119.2/123.9 |

BEFORE START

| | |
|----------------------|-------------------|
| Cabin Door | Secure |
| Preflight Inspection | Complete |
| Pax Brief | Complete |
| Seats | Adjusted & Locked |
| Seat Belts | Secure |
| Alternators | On |
| Parking Brake | Set |
| Gear Selector | Gear Down |
| Throttles | Idle |
| Prop Controls | Full Forward |
| Mixture | Idle Cut-Off |
| Friction Handle | As Desired |
| Carb Heat Controls | Off |
| Cowl Flaps | Open |
| Trim | Set for T/O |
| Fuel Selectors | On |
| Radio Master Switch | Off |
| Electrical Switches | Off |
| Heater Switch | Off |
| Circuit Breakers | Check In |

ENGINE START

| | |
|---|-----------------|
| Battery Master | On |
| Gear Lights | 3 Green |
| Throttles | 1/4 Inch |
| Prop Controls | Full Forward |
| Fin Stroke | On |
| *Mixture | Full Rich |
| *Electric Fuel Pump | On |
| *Prime | As Req'd |
| *Prop Area | Clear |
| *Magneto Switches | On |
| *Starter | Engage |
| *Throttle | Adj. to Low RPM |
| *Oil Pressure | Check |
| <i>Repeat Previous Procedures (*) for Second Engine Start</i> | |
| Ammeters | Check |
| Gyro Vacuum | Check |

AFTER ENGINE START

| | |
|---------------------|------------------|
| Throttles | 1000 to 1200 RPM |
| Electric Fuel Pump | Off |
| Fuel Selectors | 30 Sec X-Feed |
| Gyros | Set |
| Altimeter & Clock | Set |
| Radio Master Switch | On |
| Lights | As Req'd |
| Heater | As Desired |
| Radios | Check & Set |
| Autopilot | Test & Off |
| Electric Trim | Check |
| Fuel Selectors | Verify On |
| Parking Brake | Release |

TAXI

| | |
|--------------------|--------------|
| Taxi Area | Clear |
| Throttles | Apply Slowly |
| Brakes | Check |
| Steering | Check |
| Flight Instruments | Check |

ENGINE RUNUP

| | |
|-------------------------------|---------------|
| Brakes | Set |
| Mixtures | Full Rich |
| Prop Controls | Full Forward |
| Engine Instruments | Check |
| Throttles | 1500 RPM |
| Prop Controls | Feather Check |
| Throttles | 2000 RPM |
| Magnetos | 175/50 |
| Prop Controls | Exercise |
| Carb Heat | Check |
| Alternator Output | Check |
| Annunc. Panel Lights | Out |
| Vacuum (4.2 to 5.2 Inches Hg) | |
| Throttles | 500-600 RPM |
| Throttles | 1000 RPM |
| Friction Handle | Set |

BEFORE TAKEOFF

| | |
|--------------------------|--------------|
| Controls | Check |
| Flight Instruments | Check |
| Engine Instruments | Check |
| Fuel Quantity | Sufficient |
| Electric Fuel Pumps | On |
| Mixtures | Full Forward |
| Fuel Selectors | On |
| Stabilator & Rudder Trim | Set |
| Autopilot | Off |
| Pitot Heat | As Req'd |
| Carb Heat | Off |
| Cowl Flaps | Open |
| Transponder | As Req'd |
| Flaps | Check & Set |
| Warning Lights | Check |
| Door | Latched |
| Brakes | Release |
| Lights | As Req'd |

TAKEOFF

| | |
|--------------------------|-------------------------|
| Flaps | 0° to 10° |
| Stabilator & Rudder Trim | Check |
| Power | 2700 RPM, Full Throttle |
| Rotate | 75 KTS |
| Climb Speed | 88 KTS |
| Gear | Up |
| Flaps | Up |

CLIMB

| | |
|-----------|-----------|
| Mixture | Full Rich |
| Throttles | 25" |
| Prop | 2500 RPM |
| Airspeed | 105 KTS |

CRUISE

| | |
|---------------------|----------|
| Power | Set |
| Electric Fuel Pumps | Off |
| Mixture Controls | Adjust |
| Cowl Flaps | As Req'd |

DESCENT

| | |
|-------------------|----------|
| Approach Briefing | Complete |
| Mixture | Adjust |
| Throttles | As Req'd |
| Cowl Flaps | As Req'd |

LANDING

| | |
|---------------------------|----------------|
| Seats/Belts | Erect & Adjust |
| Electric Fuel Pumps | On |
| Fuel Selectors | On |
| Ldg. Gear (Below 140 KTS) | Down |
| Ldg. Gear Lights | 3 Green |
| Nacelle Mirror | Nose Gear Down |
| Mixture Controls | Full Rich |
| Prop Controls | Full Forward |
| Carb Heat Controls | As Req'd |
| Autopilot | Off |

AFTER LANDING

| | |
|----------------------|-----------|
| Flaps | Retract |
| Cowl Flaps | Full Open |
| Carb Heat Controls | Off |
| Electric Fuel Pumps | Off |
| Landing & Taxi Lighs | As Req'd |
| Heater (if On) | Fan 2 Min |

SHUTDOWN

| | |
|----------------------|-------------|
| Radio Master Switch | Off |
| Electrical Equipment | Off |
| Throttles | Idle |
| Mixtures | Idle Cutoff |
| Magneto Switches | Off |
| Alternator Switches | Off |
| Panel Lights | Off |
| Battery Master | Off |

SECURE

| | |
|---------------|---------|
| Hobbs/Tach | Record |
| QRH | Secure |
| Control Wheel | Secure |
| Flaps | Full Up |
| Tiedowns | Secure |

ENGINE FAILURE

| IN FLIGHT | |
|---------------------------------|------------------------|
| Directional Control | Maintain |
| Mixtures | Rich |
| Propellers | High RPM |
| Throttles | Full Power |
| Flaps | Up |
| Gear | Up |
| Dead Engine | ID & Verify |
| If Below 1,000 Feet AGL: | |
| Engine Securing Checklist | |
| If Above 1,000 Feet AGL: | |
| Fuel Selectors | On |
| Carb Heat | On |
| Auxillary Fuel Pump | On |
| Fuel Quantity | Check |
| Oil Pressure | Check |
| Oil Temperature | Check |
| Mag Switches | Check |
| If Restart Successful: | |
| Divert to Nearest Suitable | |
| Airport, as Appropriate | |
| If Restart Unsuccessful: | |
| Engine Securing Checklist | |

| ENGINE SECURING | |
|----------------------|-------------------------|
| Throttle | Retard to Verify |
| Prop. Feather | (950 RPM Min) |
| Mixture | Idle Cut-Off |
| Cowl Flap | Close |
| Alternator | Off |
| Magneto Switches | Off |
| Electric Fuel Pump | Off |
| Fuel Selector | Off |
| Electrical Load | Reduce |
| Crossfeed | If Req'd. |

| SE LANDING | |
|---------------------------------|------------------|
| Seat Belts | Secure |
| Fuel Selector (Op. Engine) | On |
| Mixture (Op. Engine) | Full Rich |
| Prop Control (Op. Engine) | Full Fwd |
| Fuel Pump (Op. Engine) | On |
| Cowl Flap (Op. Engine) | As Req'd |
| Alt & Airspeed | Make Normal App. |
| When Landing Is Assured: | |
| Landing Gear | Down |
| Wing Flaps | 25° (2nd Notch) |
| Final Approach Speed | 90 KIAS |

| SE GO-AROUND | |
|---|------------------------|
| AVOID IF AT ALL POSSIBLE | |
| <i>CLIMB PERFORMANCE NOT GUARANTEED</i> | |
| Directional Control | Maintain |
| Mixtures | Rich |
| Propellers | High RPM |
| Throttles | Full Power |
| Flaps | Up |
| Gear | Up |
| Dead Engine | ID & Verify |

FIRE

| DURING START | |
|--|-------------------|
| If Engine Has Not Started: | |
| Mixture | Idle Cut-Off |
| Throttle | Full Open |
| Starter | Continue to Crank |
| <i>If engine has already started and is running, continue operating to try pulling the fire into the engine.</i> | |
| If Fire Continues: | |
| Fuel Selectors | Off |
| Electric Fuel Pumps | Off |
| Mixtures | Idle Cut-Off |
| Throttles | Full Open |
| External Fire Extinguisher | Use |
| Airplane | Evacuate |

Notes
If fire continues, shut down both engines and evacuate.

| ENGINE FIRE IN FLIGHT | |
|-----------------------------|--------------------------|
| Fuel Selector (Aff. Engine) | Off |
| Throttle (Aff. Engine) | Idle |
| Propeller (Aff. Engine) | Feather |
| Mixture (Aff. Engine) | Idle Cut-Off |
| Cowl Flap (Aff. Engine) | Open |
| If Fire Persists: | |
| Airspeed | Increase to Put Out Fire |
| Alternator | Off |
| Magneto Switches | Off |
| Electric Fuel Pump | Off |
| Electrical Load | Reduce |
| Crossfeed | If Req'd |
| SE Landing | Complete |

| ELECTRICAL FIRE IN FLIGHT | |
|---|---------|
| Flashlight (At Night) | Locate |
| Battery Master | Off |
| Alternator Switches | Off |
| All Electrical Switches | Off |
| Radio Master Switch | Off |
| Vents | Closed |
| Cabin Heat | Off |
| <i>If fire persists, locate and, if practical, extinguish with portable fire extinguisher located on the console just aft of the 2 front seats.</i> | |
| Both Main Bus | Pull |
| Non-Essential | Pull |
| Avionics Bus #1 | Pull |
| Avionics Bus #2 | Pull |
| L. Alternator | Pull |
| R. Alternator | Pull |
| Main Bus Circ. Breakers | Pull |
| AVN Bus Circ. Breakers | Pull |
| <i>If electrical power required for safe continuation of flight:</i> | |
| Continue | QRH 4-2 |

ABNORMAL LANDING

| LDG GEAR UNSAFE WARN. | |
|--|------------|
| Notes | |
| <i>Light will illuminate and gear horn sounds when the gear is not down and locked if throttles are at low settings or wing flaps are in second or third position.</i> | |
| Landing Gear | Cycle |
| If Landing Gear Indications Normal: | |
| Normal Landing | Accomplish |
| If Landing Gear Indications Abnormal: | |
| Manual Gear Ext. | Complete |

| MANUAL GEAR EXTENSION | |
|---------------------------------|-----------------------|
| Navigation Lights (Daytime) | Off |
| Day/Night Dim. Switch | Day |
| Circuit Breakers | Check |
| Master Switch | On |
| Alternators | Check |
| Airspeed | Reduce (100 KIAS Max) |
| Gear Down Locked Position | |
| Emerg. Gear Extend Knob | Pull |
| Indicator Lights | 3 Green |
| Leave Emerg. Gear Ext. Knob Out | |

| ICING DURING FLIGHT | |
|---------------------|----------------------------|
| Escape | Exiting Icing Cond. |
| Carb Heat | On |
| Pitot Heat | On |
| Defrost | On |
| Cabin Heat | On |