

Airspeeds for Normal Operations

TAKEOFF

| | |
|-------------------------|------------|
| V_R | 52-65 KIAS |
| V_X Flaps UP | 64 KIAS |
| V_Y Flaps UP | 76 KIAS |
| Cruise - Climb Flaps UP | 87 KIAS |

LANDING

| | |
|---------------------------------|----------|
| Normal Descent | 122 KIAS |
| Normal Approach Speed | 75 KIAS |
| Final Approach Speed 40° Flaps | 66 KIAS |
| Maximum Flap Speed | 102 KIAS |
| Maximum Demonstrated Cross-Wind | 17 KTS |

CRUISE

| | |
|----------------------------|-------------|
| V_A Maneuvering | 89-113 KIAS |
| V_{NO} Max Turbulent Air | 125 KIAS |
| V_{NE} Max Airspeed | 154 KIAS |

Airspeeds for Emergency Operations

| | |
|---------------------------------------|----------|
| V_A Maneuvering Speed @ 2550 lbs | 113 KIAS |
| V_A Maneuvering Speed @ 1634 lbs | 89 KIAS |
| V_B Turbulent Air Penetration Speed | 113 KIAS |



OE-KBS

PIPER PA28-181

MTOM = 1157 kg / 2550 lb

A/C-Size: W: 10.7 m H: 2.3 m L: 7.2 m

FPL (EXAMPLE)

| | | |
|----|-----------------|---------------|
| 7 | A/C ID | OE-KBS |
| 8 | Flight Rules | V,I,Y,Z |
| 9 | Type of Flight | G |
| | Type of A/C | P28A |
| | Wake Turb. Cat. | L |
| 10 | Equipment | BDFGLORY/S |
| 13 | Departure A/D | LOAV |
| | Departure Time | 0830 |
| 15 | Speed | N0110 |
| | Flight Level | VFR |
| | Route | RADLY |
| 16 | Destination A/D | LJPZ |
| | Total EET | 0200 |
| | Alternate A/D | LOWG |
| 18 | Other Info | EET/RADLY0045 |
| | PBN/B2C2D2O2S2 | NAV/SBAS |
| 19 | Endurance | 0500 |
| | Persons on Bord | 1-4 |
| | Emerg. Equipm. | ELT |
| | A/C Colour | GRAY/RED |
| | Name PIC | NAME/TEL |

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OPERATOR

| | |
|-------------|-----------------|
| Tower LOAV | +43 1 700729201 |
| Maint. LOAV | +43 2252 790894 |
| AIS | +43 51703 3211 |
| MET | +43 51703 3443 |

CONTACT

| | |
|---------------|-------------------|
| Fuel | Super Plus98 ETBE |
| Fuel (alt.)* | AVGAS 100LL |
| Max. Fuel | 189 l / 50 gal |
| Unusable Fuel | 7.6 l / 2 gal |

*) If alternative Fuel used → Entry in A/C LOG

| | |
|------------|-------------|
| Shell Aero | 15W-50 |
| Minimum | 4 Qts 3.8 l |
| Maximum | 8 Qts 7.6 l |

OIL

| | |
|------------|-------------------|
| Front Tire | 18 psi / 1.24 bar |
| Main Tires | 24 psi / 1.65 bar |

TIRE

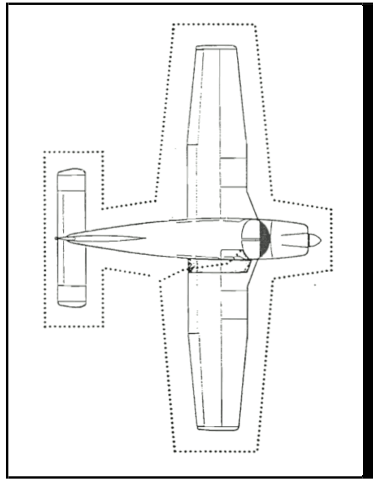
| | |
|-----------------------------|----------|
| V_{S0} (Stall- Flaps max) | 49 KIAS |
| V_G (best glide/Flaps up) | 76 KIAS |
| Max. Demo. X-Wind | 17 knots |

SPEED

| | |
|------------------------|--------|
| Clear to Land | Green |
| Return to Landing | Yellow |
| Continue Circling | Red |
| A/D unsafe, don't Land | White |
| Do not Land | White |

COM FAIL

PREFLIGHT



OUTSIDE

- 1 Fuel Tank Sumps 2 X DRAIN
- 2 Eng. Fuel Strainer DRAIN
- 3 Pitot Cover REMOVE

CABIN

- 4 Req. Documents ON BOARD
- 5 Avionics Master CHECK / OFF
- 6 Ignition OFF
- Master BAT ON
- Fuel Quantity CHECK
- Nav Lights CHECK IF REQ
- Landing Light CHECK
- ACL CHECK
- Pitot Heat CHECK
- Panel Light CHECK
- Stall Warning CHECK
- Master BAT OFF

OUTSIDE CONT.

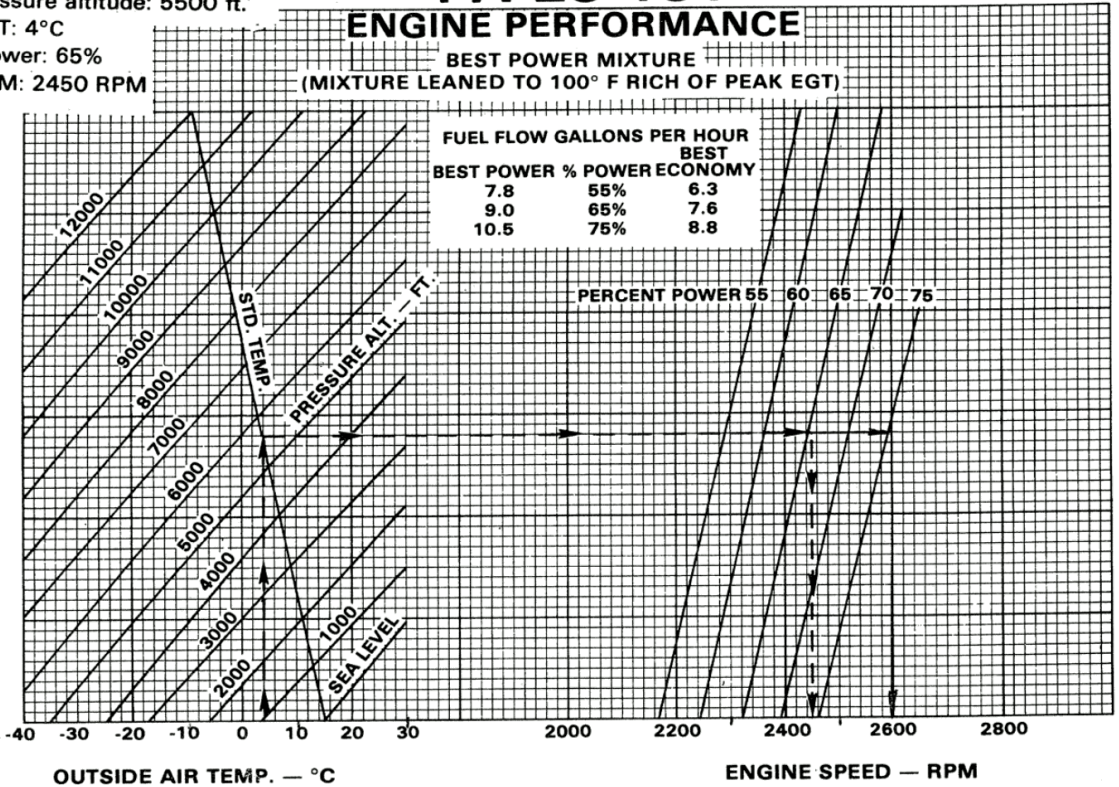
- 16 Exterior / Damage CHECK
- 17 Control Surfaces CHECK
- 18 Hinges CHECK
- 19 Wings (Ice, Snow) CHECK
- 20 Fuel Tank Quantity CHECK
- 21 Fuel Vents (Open) CHECK
- 22 Main Gear Struts CHECK
- 23 Tires CHECK
- 24 Brake Blocks CHECK
- 25 Pitot Head CHECK
- 26 Windshield CLEAN
- 27 Propeller / Spinner CHECK
- 28 Fuel & Oil (Leaks) CHECK
- 29 Oil-Level (4-6 Qts) CHECK
- 30 Oil-Dipstick SECURE
- 31 Cowling SECURE
- 32 Inspection Covers SECURE
- 33 Nose Wheel Tire CHECK
- 34 Nose Gear Strut CHECK
- 35 Air Inlets CLEAR
- 36 Alternator Belt Tension CHECK
- 37 Tow Bar STOW
- 38 Baggage SECURE
- 39 Baggage Door CLOSE
- 40 Prim. Flight Contr. PROPER OP

PA-28-181

ENGINE PERFORMANCE

Example:

Cruise pressure altitude: 5500 ft.
 Cruise OAT: 4°C
 Percent power: 65%
 Engine RPM: 2450 RPM



| LANDING | |
|------------------------|-------------------|
| 1 Fuel Selector | RIGHT TANK |
| 2 Seat Belts | ERECT |
| 3 Belts & Harness | ADJUST |
| 4 Landing Light | AS REQ |
| 5 Mixture | RICH |
| 6 A/P below 800 ft AGL | OFF |
| 7 Carburetor Heat | ON IF REQ |
| 8 Approach Speed Max. | 102 KIAS |
| 9 Flaps | SET |
| 10 Normal Approach | 75 KIAS |
| 11 Flaps Final | 40° |
| 12 Final APP Spd | 66 KIAS |
| Throttle | FULL FWD |
| Carburetor Heat | OFF |
| Flaps (retr. slowly) | 10° |
| Best Angle | 65-68 KIAS |
| Clear of Obstacles | FLAPS UP |

| AFTER LANDING | |
|-------------------|---------|
| 1 Transponder | STANDBY |
| 2 Pitot Heat | OFF |
| 3 Carburetor Heat | OFF |
| 4 Flaps | RETRACT |

| BEF. ENGINE START | |
|-----------------------|--------------|
| 1 Outside Check | COMPL |
| 2 Tow Bar, Chocks | REMOVED |
| 3 Cabin Door | CLOSE / LOCK |
| 4 Seat Belts | FASTENED |
| 5 Avionic Master | CHECK / OFF |
| 6 Circuit Breakers | CHECK / IN |
| 7 Carburetor Heat | CHECK / OFF |
| 8 Fuel Selector | DESIR. TANK |
| 9 Alternate Static | CLOSED |
| 10 Pitot Static Lines | DRAIN |

| ENGINE START | |
|---------------------|-------------|
| 1 Parking Brake | SET |
| 2 Master ALT/BAT | ON |
| 3 Verify Pump A | AUDIBLE |
| 4 Fuel Pressure | VERIFY |
| 5 Verify Pump B | AUDIBLE |
| 6 Fuel Pressure | VERIFY |
| 7 Fuel Pumps | VERIFY OFF |
| 8 ACL | ON |
| 9 Mixture | FULL RICH |
| 10 Prime | 3-6 STROKES |
| 11 Throttle | OPEN 7 mm |
| 12 Prime | 1 STROKE |
| 13 Throttle | OPEN 13 mm |
| 14 Primer | LOCKED |
| 15 Fuel Pump A or B | ON |
| 16 Prop Area | CLEAR |
| 17 Starter | ENGAGE |

| | |
|----------------------|--------------|
| 18 Throttle 1000 rpm | ADJUST |
| 19 Oil Pressure | CHECK |
| 20 Warm Up at | 800-1200 rpm |
| 21 Nav Lights | ON IF REQ |

| FLOODED ENGINE START | |
|----------------------|--------------|
| 1 Throttle | FULL FWD |
| 2 Master ALT/BAT | ON |
| 3 Fuel Pump | OFF |
| 4 ACL | ON |
| 5 Mixture | IDLE CUT-OFF |
| 6 Prop Area | CLEAR |
| 7 Starter | ENGAGE |
| 8 Mixture | FULL RICH |
| 9 Throttle | RETARD |
| 10 Oil Pressure | CHECK |
| 11 Warm Up at | 800-1200 rpm |
| 12 Nav Lights | ON IF REQ |

| ENGINE START - Ext. Power | |
|---------------------------|------------|
| 1 Master ALT/BAT | OFF |
| 2 All Electr. Equipm. | OFF |
| 3 Piper Ext. Power | INSERT |
| 4 Engine Start | PROCEED |
| 5 Throttle | LOWEST RPM |
| 6 Piper Ext. Power | DISCONNECT |
| 7 Master ALT/BAT | ON |
| 8 Oil Pressure | CHECK |
| 9 ACL | ON |
| 10 Ammeter | CHECK |
| 11 Nav Lights | ON IF REQ |

| BEFORE TAXI | |
|----------------------|-----------|
| 1 Avionic Master | ON |
| 2 Annunc. Panel | PRESS |
| 3 Landing Light | AS REQ |
| 4 GPS Selftest | CHECK |
| 5 GPS after Selftest | ENTER |
| 6 Flight Instruments | SET |
| 7 Transponder | SET / SBY |
| 8 G5 PFT Indication | OFF |
| 9 Taxi Area | CLEAR |
| 10 Parking Brake | RELEASE |
| Throttle apply | SLOWLY |
| I Brakes | CHECK |
| A Steering | CHECK |
| T Turn & Bank Ind. | CHECK |

| BEFORE TAKEOFF | |
|-----------------------|-------------------|
| 1 Parking Brake | SET |
| 2 Fuel Selector | RIGHT TANK |
| Throttle | 2000 rpm |
| Oil Pressure | CHECK |
| Oil Temp | CHECK |
| P Magnetos B-R-B-L-B | 175 / 50 rpm |
| N Carburetor Heat | CHECK |
| C Fuel Pump | CHECK / OFF |
| R Fuel Pressure | CHECK |
| Throttle - IDLE | CHECK |
| Throttle | 1000 rpm |
| 12 Flight Instruments | CHECK / SET |
| 13 Radios / Nav / GPS | SET |
| 14 CDI Source | SELECT |

| | |
|------------------------|----------------|
| 15 Autopilot | ENGAGE |
| 16 Flight Controls | OVERRIDE |
| 17 A/P Trim Disconnect | PRESS |
| 18 Flight Director | OFF |
| 19 Trim Tab | SET T/O |
| 20 Primer | LOCKED |
| 21 Landing Light | AS REQ |
| 22 Pitot Heat | AS REQ |
| 23 Mixture | FULL RICH |
| 24 Carburetor Heat | CHECK / OFF |
| 25 Fuel Pump A or B | ON |
| 26 Flaps (10°/25°/40°) | CHECK |
| 27 Flaps | AS REQ |
| 28 Door | LATCHED |
| 29 Seatbel./Harness | FASTEN/ADJ. |
| 30 Departure Briefing | COMPL |
| 31 T/O Briefing | COMPL |
| 32 Approach Sector | CLEAR |
| 33 Trim Tab | SET T/O |
| 34 Rudder Trim | NEUTRAL |
| 35 Parking Brake | RELEASE |

| LINE UP / TAKEOFF | |
|-------------------|-------------------|
| 1 Runway Heading | CONFIRM |
| 2 Transponder | ALT |
| 3 Engine Gauges | CHECK |
| 4 Landing Light | AS REQ |
| 5 Flaps | AS REQ |
| 6 Throttle | FULL FWD |
| 7 Rotate | 52-65 KIAS |

| SHORT FIELD T/O | |
|----------------------|-------------------|
| 1 Flaps | 25° |
| 2 Rotate | 41-49 KIAS |
| 3 After brk Ground | 45-54 KIAS |
| 4 Accelerate to | 64 KIAS |
| 5 After pass. Obst | FLAPS 10° |
| 6 Flaps retr. slowly | UP |
| 7 Accelerate to | 76 KIAS |

| SOFT FIELD T/O | |
|----------------------|-------------------|
| 1 Flaps | 25° |
| 2 Rotate | 41-49 KIAS |
| 3 After T/O acceler. | 45-54 KIAS |
| 4 Accelerate to | 76 KIAS |
| 5 Flaps retr slowly | UP |

| CLIMB | |
|---------------------------|----------------|
| 1 Flaps (500 ft AGL) | UP |
| 2 Climb Speed | 76 KIAS |
| 3 Landing Light | OFF |
| 4 Engine Gauges | CHECK |
| 5 Trim | AS REQ |
| 6 V _y Flaps up | 76 KIAS |
| 7 V _x Flaps up | 64 KIAS |
| 8 En Route Climb | 87 KIAS |
| 9 Mixture | AS REQ |
| 10 Oil Temperature | CHECK |

| CRUISE | |
|-------------------------------|------------|
| 1 Cruise Power ¹³⁵ | AS REQ |
| 2 Trim | ADJUST |
| 3 Mixture | ADJUST |
| 4 Fuel Pump | OFF |
| 5 Fuel Sel. 30 min | SWITCH |
| 6 Fuel - Right Tank | MIN ¼ FULL |

| NORMAL DESCENT | |
|----------------------|-------------------|
| 1 Throttle (if Req.) | 2500 rpm |
| 2 Airspeed | 122 KIAS |
| 3 Mixture | RICH |
| 4 Fuel Pump | ON |
| 5 Carburetor Heat | ON IF REQ |
| 6 Fuel Selector | RIGHT TANK |
| 7 Appr. Briefing | COMPL |

| POWER OFF DESCENT | |
|-------------------------------------------|-------------------|
| 1 Carburetor Heat | ON IF REQ |
| 2 Throttle | CLOSE |
| 3 Airspeed | AS REQ |
| 4 Mixture | AS REQ |
| 5 Fuel Pump | ON |
| 6 Fuel Selector | RIGHT TANK |
| 7 Power verify with Throttle every 30 sec | |