

PROCEDURES FOR NORMAL OPERATION PIPER P28A

Parameters, restrictions, procedures and emergency procedures see AFM

ENGINE START (NORMAL)

1. Fuel pump ON
2. Mixture..... RICH
3. Prime according PRIMING TABLE
4. Throttle IDLE
5. Starter..... ENGAGE
6. Power..... SET 1000 RPM
7. Oil pressure..... OBSERVE
8. Fuel pump OFF

PRIMING TABLE (STROKES)

OAT [°C]	-10	0	+10	+20	+30
Engine cold	5-6	3-4	2	1-2	1
Engine hot	1-3	1	0-1	0	0

BEFORE FIRST TAXI

1. Time (Block off) TABULATED
2. Directional gyro SET
3. Taxi area FREE

TAXI

1. Taxi light..... ON
2. Power..... SET
3. Parking brake..... RELEASED

AFTER FIRST TAXI

1. Brakes CHECKED
2. Attitude indicator ERECTED / STABLE
3. Turn coordinator L/R TURNING
4. Directional gyro L/R TURN: DECREASING/INCREASING

STOP

1. Power..... SET
2. Parking brake..... SET
3. Taxi light..... OFF

ENGINE TEST

1. Power..... 2000 RPM SET
2. Oil pressure..... CHECK / GREEN ARC
3. Fuel pressure..... CHECK / GREEN ARC
4. Gyro suction..... CHECK / GREEN ARC
5. Alternator output..... POSITIVE
6. Annunciator warnings..... OFF except Pitot heat
7. Left Magneto..... DROP ___ RPM (MAX 175)
8. Right Magneto..... DROP ___ RPM (MAX 175)
9. Difference L/R Magneto..... ___ RPM (MAX 50)
10. Carburetor heat..... FUNCTION CHECKED
11. Mixture..... FUNCTION CHECKED
12. Throttle idle..... BETWEEN 500 AND 700 RPM
13. Power..... SET 1000 RPM

LINING UP

1. Wind (RTF / Windssock)..... DIRECTION / SPEED
2. Runway..... IDENTIFIED
3. Approach sector..... FREE
4. Lights (Landing / Strobe)..... ON

LINED UP & TAKE OFF

1. Brakes..... PUSH
2. Runway & Gyro heading..... COMPARE
3. Time..... CHECKED
4. Take off power..... SET
5. Power (min. RPM)..... CHECKED
6. Brakes..... RELEASED
7. Speed..... RISE

SAVE ALTITUDE (MIN 400 FT AAL)

1. Fuel pump OFF except Circuits
2. Fuel pressure GREEN ARC

2000 FT AGL

1. Speed V CC 87

200 FT BEFORE LEVEL OFF

1. Reaching (... FT / FL ...)

LEVEL OFF

1. Altitude (... FT / FL ...)
2. Attitude ADJUST
3. Power RPM ____
4. Trim ADJUST
5. Mixture ADJUST

STARTING DESCENT

1. Mixture ADJUST
2. Attitude FOR DESCENT
3. Power RPM ____
4. Trim ADJUST

INITIAL APPROACH

1. Speed BELOW 103
2. Flaps 10
3. Speed 80

APPROACHING GLIDE PATH

1. Power SET
2. Speed BELOW 103
3. Flaps 25
4. Speed 70
5. Starting DESCENT

FINAL APPROACH

1. Speed BELOW 103
2. Flaps 40
3. Speed V FINAL ____

BEFORE GATE

- 1. Carburetor heat OFF

GO AROUND

- 1. Power..... FULL OPEN
- 2. Carburetor heat OFF
- 3. Attitude ROTATE according Speed
- 4. Speed above 55 + pos ROC FLAPS RETRACT

ENGINE SHUT DOWN

- 1. Electrical consumers OFF except Avionic master
- 2. Alternator OFF
- 3. Throttle IDLE
- 4. Magnetos grounding AS REQUIRED
- 5. Mixture..... CUT OFF
- 6. Magnetos OFF

TAKEOFF BRIEFING**Departure**

Takeoff procedure.....	Wind, Temperatur, Gewicht, Pistenzustand
Climb profil	Safe altitude, V_x , V_y , V_{cc}
Airspace.....	Einschränkungen
Routing	Flugweg zum verlassen Flugplatzbereich

Emergency

Malfunction on Ground.....	Massnahmen vor dem Abheben
Engine failure TO & Climbout	erste Massnahmen nach dem Start
Major Malfunction after TO	Massnahmen und Flugweg nach dem Start

APPROACH BRIEFING

Runway.....	Wind, Landerichtung, Landezone
Airspace.....	Einschränkungen auf dem Flugweg
Routing	Flugweg und Höhengates beim Anflug
Missed approach.....	GA-Marke, Flugweg nach einem Durchstart

FINAL SPEED CALCULATION**MASS FACTOR**

Speed reduction on Final: 1 kt per 30 kg below MTOM

WIND FACTOR

Speed increments on Final: if windspeed or gust is exceeding 10% of V_{final}
Add 1/2 of headwind component to V_{final}

EXAMPLE FINAL-SPEED INCREMENT

V_{final}	$V_{headwind}$		increment	V_{final}
66 KIAS	6 KT	Windspeed below 10%	0 KT	66 KIAS
66 KIAS	20 KT	Windspeed above 10%	10 KT	76 KIAS
66 KIAS	20 up to 36 KT	Gustspeed above 10%	18 KT	84 KIAS

FINAL APPROACH SPEED = V_{final} - Mass factor + Wind factor

BANK FACTOR

if bankangle for turning final is more than 25°: Add 5 kt to $V_{intermediate}$

FLIGHTPATH CALCULATION

Flight angle	Gradient [ft/NM], [%]	ROD/ROC [ft/min]	ref. RPM (no wind)
3°	300 ft/NM = 5%	GS x 5	1700
4°	400 ft/NM = 7%	GS x 7	1600
5°	500 ft/NM = 9%	GS x 9	1500

ROD/ROC [ft/min] = GS [kt] x Gradient [%]

Climb with obstacles

2000 ft AGL
accelerate to V_{cc}

**CLIMB
CHECK**

400 ft AAL Safe altitude
no turns below

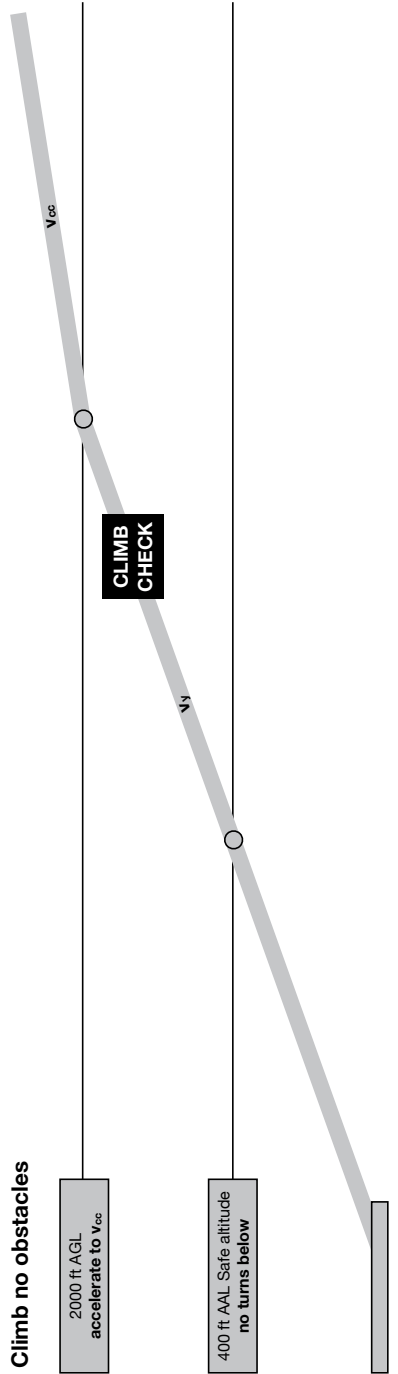
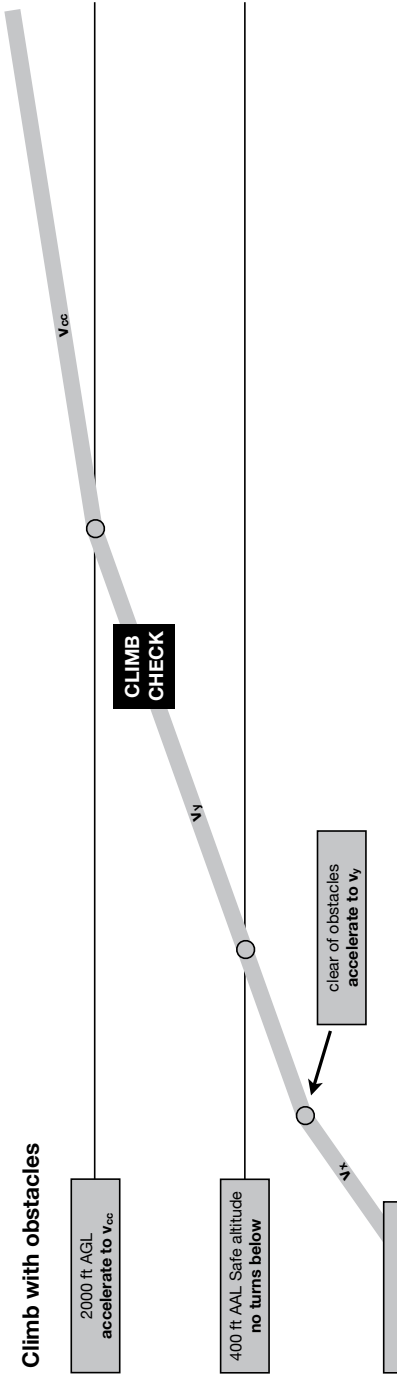
clear of obstacles
accelerate to V_y

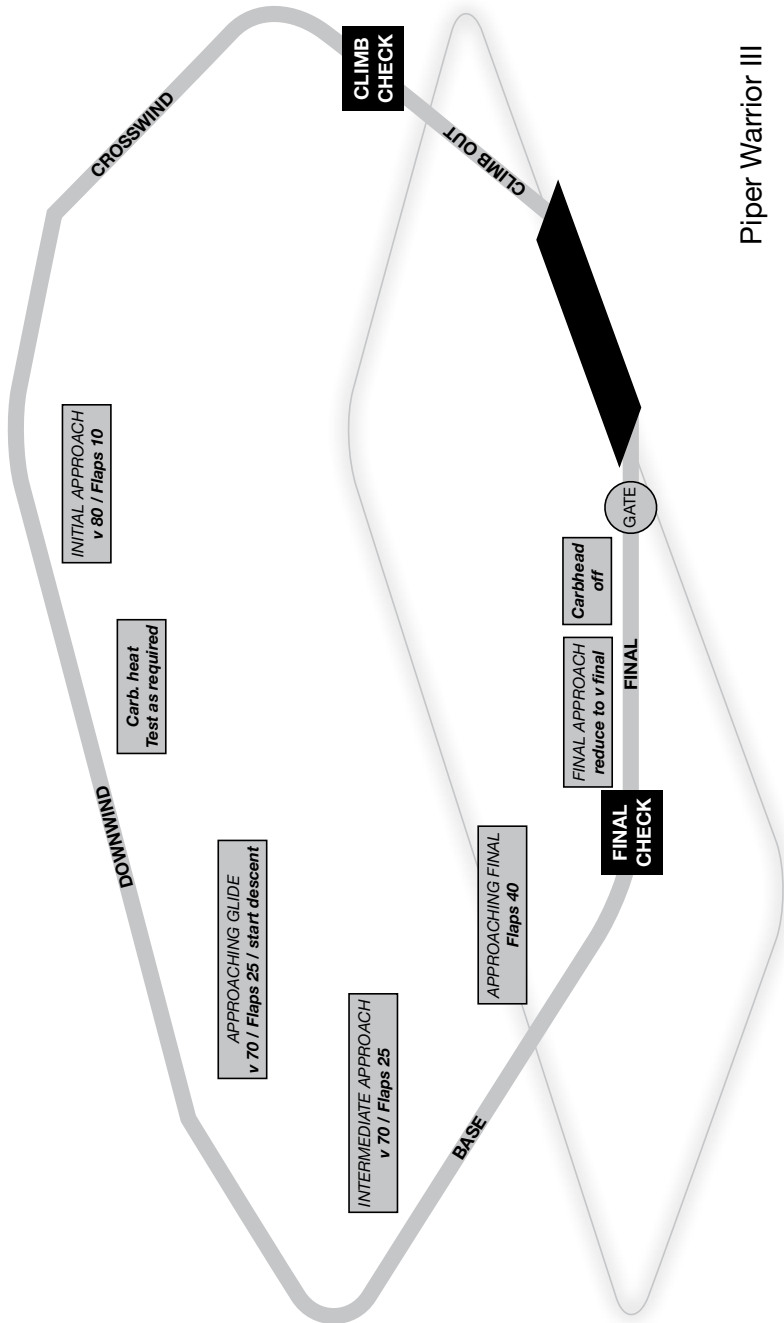
Climb no obstacles

2000 ft AGL
accelerate to V_{cc}

**CLIMB
CHECK**

400 ft AAL Safe altitude
no turns below





Piper Warrior III

Jan11
v5.2

FLUGSCHULE GRENCHEN

PROCEDURES

Piper Warrior III

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