

Checklist Overview

- Colors have been carefully selected to be visible in both red and green night lighting
- Color-coded checklist items based on category
 - **Blue**: Oil, fuel, and mixture
 - Blue, like the color of the fuel
 - **Green**: Electrical, lighting, and avionics
 - Green for go (i.e. makes the electrons move)
 - **Purple**: Airspeeds
 - Night-lighting friendly color that's different than just black
 - **Red**: Critical/safety reminders
 - Red for danger



Checklist Overview

- Color-coded pages based on procedure type
 - **Green:** Preflight
 - Green = good/safe (i.e. no rush)
 - **Blue:** Takeoff
 - Blue for the sky
 - **Red:** Emergency Checklist Items
 - Red for danger



Checklist Overview

- Special highlighting to make certain items stand out
 - ▣ **Bold** for important (“killer”) items
 - Most are also *italicized*, but less critical items are not
 - ▣ Grey highlighting for memory items
 - ▣ CAPITALIZATION for important checklist item statuses
 - ▣ Underlining for items easily forgotten
- Some checklist items have been reordered from the POH order to better fit in to a cockpit flow



Checklist Sample

Piper Dakota (PA-28-236)

PREFLIGHT

1. Oil 9-12 qts, Cap Secure

CABIN

1. POH & Documents Check Available
2. Magneto Switch OFF
3. Pitot/Static Drains Push to Drain
4. Avionics/Electrical Switches OFF
5. Master Switch ON
6. Fuel Quantity Check Quantity

7. Pitot Heat / Lights On to Check
8. Stall Warning Horn Verify Operation
9. Pitot Heat / Lights Off

10. Annunciator Panel Press to Test
11. Master Switch OFF
12. Flaps Down

WALKAROUND

Right Wing

1. Flap & Aileron Check Skin & Hinges
2. Wing Surfaces No Contamination
3. Wing Tie Down DISCONNECT
4. Right Wing Fuel Vent Unobstructed
5. Right Wing Fuel Drain Check Sample
6. Right Wing Fuel Quantity Visually Verify
7. Main Gear Strut 4.25"-4.75"
8. Tire & Brakes 35-40 psi

Nose

1. Cowling Secure
2. Prop & Spinner Check
3. Alternator Belt Check
4. Cooling Inlet Unobstructed
5. Air Inlet Unobstructed
6. Nose Wheel Strut 3.0"-3.5"
7. Nose Wheel Tire 29-33 psi
8. Main Fuel Strainer Check Sample (L & R)

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Checklist Name

Sub-step

Visual aid to keep track of which step you're on

Major section color

Checklist revision



Checklist Sample

Piper Dakota (PA-28-236)		
6. Mixture	Rich	
7. Throttle	2000 RPM	
a. Magnetos	< 175 RPM Drop, < 50 RPM Difference	
b. Suction Gauge	4.9" - 5.1"	
c. Ammeter	Check w/ Load	
d. Propeller	Exercise then Full RPM	
e. Carb Heat	On w/ RPM Drop	
f. Throttle	Idle	
g. Carb Heat	Off w/ RPM Rise	
8. Throttle	1000 RPM	
9. Emergency Procedures	Reviewed	
10. Departure Briefing	Completed	
<i>Check THAT Setup (Transponder, Heading, Altimeter, Talk)</i>		
TAKEOFF		
1. Landing Light	On	[Lights]
2. Transponder	ALT	[Camera]
3. Fuel Pump	ON	[Action]
4. Landing Light	On	
NORMAL:		
1. Flaps	Up (0)	
2. Throttle	Full Open	
3. Engine Instruments	All In The Green	
4. Rotate	60-65 Kts	
SHORT FIELD, OBSTACLE CLEARANCE:		
1. Flaps	25-degrees (2)	
2. Brakes	HOLD until full power	
3. Throttle	Full Open	
4. Engine Instruments	All In The Green	
5. Brakes	RELEASE	
6. Rotate	50-60 Kts, accel to 73	
7. Flaps	Retract After 85 Kts	
• Climb Speed	V _y (85 Kts)	

Visual aid to keep track of which step you're on

Special attention steps

Memory item steps

Checklist mnemonic



Checklist Sample

Piper Dakota (PA-28-236)	
ENGINE FAILURE	
TAKEOFF RUN	
1. Throttle	IDLE
2. Brakes	Apply As Needed
<i>If Insufficient Runway Remaining</i>	
3. Mixture	IDLE CUTOFF
4. Master Switch	OFF
5. Magnetos	OFF
6. Fuel Selector	OFF
IMMEDIATELY AFTER TAKEOFF	
1. Airspeed	>85 KIAS
2. Mixture	IDLE CUTOFF
3. Master Switch	OFF
4. Magnetos	OFF
5. Fuel Selector	OFF
6. Flaps	As Required
7. Cabin Door	Unlatch
8. Land	Straight Ahead
DURING FLIGHT (Restart Procedures)	
1. Airspeed	85 KIAS
2. Mixture	RICH
3. Fuel Pump	ON [F]
4. Fuel Selector	SWITCH TANKS
5. Carb Heat	ON [A]
6. Ignition Switch	Left, Right [S]
ENGINE PROBLEMS	
LOSS OF FUEL PRESSURE	
1. Fuel Pump	ON
2. Fuel Selector	Check On Fullest Tank
LOW OIL PRESSURE / HIGH OIL TEMPERATURE	
• LAND AS SOON AS PRACTICAL	

Memory item steps

Special highlighting

Checklist mnemonic



Additional Checklist Features

Piper Dakota (PA-28-236)

COMMUNICATION

DXR ATIS	127.75	NY Approach	126.40
DXR Ground	121.60	Flight Services	122.20
DXR Tower	119.40		
Air-to-air	122.75		

V-SPEEDS

V_x	73 KIAS	V_{fe}	102 KIAS
V_y	85 KIAS	V_{no}	137 KIAS
		V_{fr}	173 KIAS
$V_a - 3000$ lbs	124 KIAS	V_s	65 KIAS
$V_a - 1761$ lbs	96 KIAS	V_{so}	56 KIAS
Max Demonstrated Crosswind - 17 KIAS			
$V_g - 85$ KIAS			

ALTITUDE LIMITS

Service Ceiling	17,500
Absolute Ceiling	19,700

- Full Throttle
- Mixture 125 FROP
- Flaps Up
- 75 KIAS
- 3000 lbs Gross Weight

Departure Briefing Items

○ Takeoff Abort Point	60 Kts before 50% takeoff roll
○ Safety Altitude	At least 1000' AGL
○ Initial Departure Heading	Review
○ Initial Departure Altitude	Review

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- Three special non-checklist pages
 1. Communications, V-speeds, and other important items
 2. Engine performance
 3. Glide performance

- These pages provide quick reference values and guidance that may be frequently needed during flight



Companion Checklist

Piper Dakota (PA-28-236)

PREFLIGHT	
CABIN	
1. Ignition Switch	OFF
2. Pitot/Static Drains	Open
WALKAROUND	
Right Wing	
3. Wing Tie Down	DISCONNECT
4. Right Fuel Drain	Check Sample
5. Right Fuel Quantity	Visually Check
6. Strut, Tire & Brakes	Check (35 psi)
Nose	
7. Oil	9-12 Qts
8. Nose Wheel Strut/Tire	Check (29 psi)
9. Main Fuel Strainer	Check Samples
Left Wing	
10. Strut, Tire & Brakes	Check (35 psi)
11. Wing Tie Down	DISCONNECT
12. Pitot/Static Mast	Check
13. Left Fuel Drain	Check Sample
14. Left Fuel Quantity	Visually Check
Empennage	
15. Tail Tie Down	DISCONNECT
ENGINE START & PRE-TAXI	
1. Passenger Briefing	Complete
2. Prop Area	CLEAR
3. Oil Pressure	In the green
4. Mixture	Leaned
5. Flight Controls	Checked
PRE-DEPARTURE	
1. Primer	IN & LOCKED
2. Run-up	Completed
3. Emergency Procedures	Reviewed
4. Departure Plans	Reviewed
5. Mixture	Rich
Check THAT Setup (Xpdr, Heading, Alt, Talk)	
TAKEOFF	
1. Landing Light	On Lights
2. Transponder	ON/ALT Camera
3. Fuel Pump	ON []
4. Timer	RUN Action
5. Engine Instruments	CHECK
* Climb Speed	V _r (85 Kts)
ENROUTE CLIMB	
1. Airspeed	100 Kts
2. Max Throttle / Prop	25" MP / 2400 RPM
3. Mixture	LEAN +5000' MSL
CRUISE	
1. Power	75% or less
2. Trim	Adjust
3. Mixture	LEAN
LANDING	
1. Approach Procedures	REVIEW
2. Fuel Selector	FULLEST TANK G
3. Mixture	RICH M
4. Fuel Pump	ON P
5. Propeller	Full RPM P
6. Seatbelts	LATCHED S
AFTER LANDING	
1. Carb Heat	Off
2. Fuel Pump	Off
3. Elevator Trim	SET TO NEUTRAL
SHUTDOWN	
1. Mixture	IDLE CUTOFF
2. Ignition Switch	OFF
3. Master & Alternator Switches	Off
4. Flight Plan	CLOSE

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- A companion abbreviated checklist is also available
 - Only the critical “killer” and important items are listed
- Useful for in-flight procedures during high-workload situations when referencing the full checklist may be impractical
- Color-coding and highlighting is similar to the full checklist

