A normal checklist is provided for use in flight. This checklist covers items that are of vital importance to the safety of the flight.

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Expanded procedures for normal, non-normal, and emergency operations are provided on the reverse side. These should be used for training aids during type ratings and for personal reference.

As model differences frequently occur, the manufacturers handbook for the aircraft you are flying should be referenced to and this checklist must be modified accordingly prior to any use operation!

Speeds and performance figures provided here are for the more common C182 models and rounded up to the nearest 5kts.

**HAPPY FLYING**

---

**CHECKLIST**

**NOTE ON CHECKLISTS**

A normal checklist is provided for use in flight. This checklist covers items that are of vital importance to the safety of the flight.

When completing a checklist it is assumed the pilot is familiar with the full operating procedures in the sections following the normal checklist and outlined in the aircraft P0H section 4. The checklist is completed after normal flows as a cross check to ensure critical items are set correctly.

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**RED SKY CHECKLISTS**

**Cessna 182**

---

**PERFORMANCE**

**SPCRM**

---

**NORMAL CHECKLIST**

**Before Leaving Home**

**“I’M SAFE”**

**Self Check**

<table>
<thead>
<tr>
<th>Illness</th>
<th>Medication</th>
<th>Stress</th>
<th>Alcohol in last 8 hrs</th>
<th>Feeling OK</th>
<th>Eaten</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Flight Equipment Check**

- Crew Licenses
- Strainer, Dipstick, Leatherman
- Current Charts
- Airport Guide/Airfield Charts
- Custom Checklists
- Text Books
- Flight Plans
- Weather Reports
- Flight Computer, Plotter Calculator, Pencils, Clipboard
- Time Piece
- Flashlights, Batteries, Bulbs
- Cell Phone (Charged)
- Spare Glasses, Sun Glasses

**Before Start**

- Preflight Inspection
- Tach/Hobbs/Time
- Passenger Briefing
- Seats / Seatbelts
- Adjust, Lock
- Fuel Selector Valve
- Both
- Cowl Flaps
- Open
- Brakes
- Set
- Avionics, Electrical
- Off
- Circuit Breakers
- Check In

**Normal Engine Start**

- Mixture
- Rich
- Propeller
- High RPM
- Power
- ½ Centimeter
- Carburetor Heat
- Cold
- Prime
- 1-3 as req’d
- Rotating Beacon
- On
- Area
- Clear

**After Start**

- Mixture
- Set for Taxi
- Engine Instruments
- Check
- Taxi, Nav. Lights
- As Required
- Flaps
- Retracted
- Transponder
- Standby

**Pre Run Up**

- Brakes
- Release, Check
- Avionics and Flight Instruments
- Check/Set
- Nav instruments
- Test

**Fuel**

- Parking Brake
- Green
- Cowl
- Open
Loading

Maximum TO/Ldg Weight .................. 2800lbs
Standard Empty Weight ................. 1600lbs
Useful Load ................................ 1200lbs

Operating performance

Fuel Capacity (useable)
Standard ........................................... 56gals
Long Range ......................................... 75gals
Fuel Consumption
75%@2500ft ................................. 55lt /hr
75%@7500ft ..................................... 45 lt /hr
Planning ........................................ 60 lt /hr
Plan Cruise speed ....................... 125KTAS

Other Information

Transponder Codes:
Unlawful Interference .............................. 7500
Loss of Communication  ......................... 7600
Emergency .......................................... 7700

Radio Frequencies
Emergency Frequencies .................. 121.5/243
All Africa TIBA .................................. 126.9
Uncontrolled/Unmanned: ................. 124.8
Training Areas: ................................. 124.4

Light Signals

<table>
<thead>
<tr>
<th>Signal</th>
<th>On Ground</th>
<th>In Flight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Green</td>
<td>Takeoff</td>
<td>Land</td>
</tr>
<tr>
<td>Green Flashing</td>
<td>Taxi</td>
<td>Return to land</td>
</tr>
<tr>
<td>Red</td>
<td>Stop</td>
<td>Give way</td>
</tr>
<tr>
<td>Red Flashing</td>
<td>Clear runway</td>
<td>Do not land</td>
</tr>
<tr>
<td>White Flashing</td>
<td>Return to ramp</td>
<td>-</td>
</tr>
<tr>
<td>Red/Green alternating</td>
<td>WARNING – USE CAUTION</td>
<td></td>
</tr>
</tbody>
</table>

PERFORMANCE

Run Up

Power ........................................ Set
Mixture ....................................... Set
Carb Heat .................................. Check
Magneto ...................................... Check Left, Both, Right, Both
Propeller Governor ...................... Cycle
Engine Instruments .................... Check
Vacuum ...................................... Check
Ammeter .................................. Check with load
DI ........................................... Set to Compass
Throttle friction lock .................. Set
Idle ......................................... Check

Pre-Takeoff

Trim ........................................... Set for takeoff
Mixture ....................................... Set for takeoff
Magnetos .................................... Both
Propeller Governor ...................... Full fine
Flight Controls ......................... Free and Correct Flaps
........................................ Set for takeoff
Cowl Flaps ................................ Open
Instruments .................................. Checked and Set
Radios ........................................ Set for Departure
Navigation / GPS ....................... Set for Departure
Hinges ........................................ Closed, Locked
Harnesses .................................... Secure
Engine Runup ............................. Complete
Engine Instruments .................... Checked
Electrics ................................. CB’s Checked
Emergency & Dep. brief ............... Perform

Line Up

Area ........................................ Clear
Landing light, strobes ................... On
Transponder ................................. Set to altitude
DI ........................................... Align with Compass, Rwy
Area ........................................ Clear
Windsock .................................. Check
Engine Parameters ...................... Green

NORMAL CHECKLIST
**NORMAL CHECKLIST**

**Propeller Pitch**
- Undercarriage
- Carb Heat
- Cowl Flaps

**Cruise**
- Power/Prop
- Fuel
- mixture
- Brakes
- Radios
- Icing

**Descent**
- Fuel
- Correct Tank Qty checked
- Approach Briefing
- Closed/Cruise As Req’d

**Downwind**
- Brakes
- Check Undercarriage
- Power/Prop
- Set
- Fuel
- Correct Tank
- Flaps
- Closed/Cruise As Req’d

**Final**
- Cowl Flaps
- Open
- Carb Heat
- Off
- Undercarriage
- Down & Locked
- Propeller Pitch
- Full fine

---

**Short field take-off**
- Wing Flaps: 20 deg
- Brakes: APPLY
- Power: Maximum
- Mixture: Set for Field Elevation
- Brakes: RELEASE
- Elevator Control: Slightly Tail Low
- Lift Nose: 60 KIAS
- Maintain: Until clear of Obstacles
- Accelerate: 80 KIAS
- Wing Flaps: [above 70 KIAS] RETRACT
- Power: Set for climb

Note: Do not reduce power until wing flaps have been retracted.

**Soft field take-off**
- Wing Flaps: Maximum for field
- Line up: Do not stop rolling
- Takeoff roll: Nose high
- Lift off: Minimum speed
- Accelerate: 65 KIAS
- Until clear of Obstacles, continue with Short Field Procedure

**Maximum Performance Climb**
- Wing Flaps: Up
- Power: Maximum Climb
- Pitch: Maximum Continuous

**Engine Parameters**
- Green
- Lights
- As required
- Green
- Lights
- As required

**Abnormal Maneuvers**

**Abnormal Procedures**

**Engine Failure**

**Takeoff**
- NOTE: Bold Items are immediate recall items, other times may be followed up by the use of the AFM checklist.
- Throttle
- Brakes
- Flaps
- Mixture
- Ignition
- Master switch

**AFTER TAKEOFF**
- Airspeed
- 70 KIAS Flaps Up
- 65 KIAS Flaps Down

**Fuel Shutoff Valve**
- OFF

**Ignition**
- OFF

**Flaps**
- As required

**Master switch**
- OFF

**DURING FLIGHT**

**Emergency Actions**
- Airspeed
- 70 KIAS

**Carb Heat**
- ON

**Field**
- Select

**Approach**
- Plan

**Finding**
- Carb Heat
- ON

**Primer**
- IN & Locked

**Fuel Shutoff Valve**
- ON

**Mixture**
- RICH

**Ignition**
- BOTH (or START)

**Communicate**
- Mayday
- Transmit on Active or 121.5

**Transponder**
- 7700

**Passengers**
- Brief

**Secure**
- Mixture: cutoff

**Fuel Shutoff Valve**
- OFF

**Ignition**
- OFF

**Final**
- Master switch: OFF

**Doors**
- Unlatch

**Touchdown**
- Tail low

**Note:** It is recommended that engine failure during fight procedures be committed to memory

---

**ABNORMAL PROCEDURES**

**IMMEDIATE ACTIONS**

**Engine Parameters**
- Check

**Power/Prop**
- Adjust

**Fuel**
- Up

**Undercarriage**
- Retracted

**Mixture**
- Open

**Flaps**
- CHECKED

**Ignition**
- Master switch

**ENG IMMED ACTIONS**

**AFTER TAKEOFF**
- Note: Do not reduce power until wing flaps have been retracted.

**Max Performance Climb**
- Note: for an after takeoff climb or in an emergency full power may be used ensure time limits are not exceeded for normal operations

**Mixture**
- Set for Field Elevation

**Airspeed**
- Vyro: 80 KIAS (sea level)
- Vyro, 75 KIAS (10,000 ft)

**Cowl Flaps**
- Open

**Note:** Vy will provide maximum rate of climb when performance is limiting such that less than 200tpm is achieved, the reduction to best angle of climb may result in zero or negative rate of climb.

---

**Abnormal Procedures**

**Engine Failure**

**Takeoff**
- NOTE: Bold Items are immediate recall items, other times may be followed up by the use of the AFM checklist.

**Throttle**
- IDLE

**Brakes**
- Apply

**Flaps**
- UP

**Mixture**
- IDLE cut-off

**Ignition**
- OFF

**Master switch**
- OFF

**AFTER TAKEOFF**
- Airspeed
- 70 KIAS Flaps Up
- 65 KIAS Flaps Down

**Fuel shutoff valve**
- OFF

**Ignition**
- OFF

**Flaps**
- as required

**Master switch**
- OFF

**DURING FLIGHT**

**Emergency Actions**
- Airspeed
- 70 KIAS

**Carb Heat**
- ON

**Field**
- Select

**Approach**
- Plan

**Finding**
- Carb Heat
- ON

**Primer**
- IN & Locked

**Fuel Shutoff Valve**
- ON

**Mixture**
- RICH

**Ignition**
- BOTH (or START)

**Communicate**
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**Passengers**
- Brief

**Secure**
- Mixture: cutoff

**Fuel Shutoff Valve**
- OFF

**Ignition**
- OFF

**Final**
- Master switch: OFF

**Doors**
- Unlatch

**Touchdown**
- Tail low

**Note:** It is recommended that engine failure during fight procedures be committed to memory

---

**Emergency Procedures**
**NORMAL CHECKLIST**

**Shutdown and Securing**
- Power: Idle
- Avionics and Switches: Off
- Mags: Off
- Master: Off
- Control Lock: Off
- Hobbs and Tach: Record
- Tie Downs: Attached

**After Landing**
- Cowl Flaps: Open
- Trim: Takeoff
- Flaps: Retract
- Carb Heat: Off
- Land, Strobe lights: Off
- Transponder: Standby

**Short field landing**
- Flaps: Full Airspeed: 65kts
- Touchdown Positive, Main Wheels First
- Nose Wheel: Lower Braking: Maximum
- Flaps: Retract

**Soft field landing**
- Flaps: Full Airspeed: 65kts
- Touchdown, Softly Main Wheels First
- Nose Wheel: Lower gently
- Elevator: Full up
- Braking: Gently, minimum required
- Flaps: Leave down until clear of rwy

**Crosswind take-off**
- Wing Flaps: Minimum for field
- Takeoff roll: Ailerons Into wind
- Liftoff: Ailerons Neutra
- Liftoff: Vr nmi+
- After takeoff: Crab into wind for drift

**Crosswind landing**
- Wing Flaps: minimum for field length
  (and as required by strength of wind)
- Approach: crab into wind
- Touchdown: Nose straight, into wind wheel first
- After landing: Ailerons into wind
- Note: maximum demonstrated crosswind

**Go-around**
- Mixture/Pitch/Throttle: Forward
- Wing Flaps: Retract to Takeoff
- Brakes: APPLY
- (after obstacles are cleared and above Vx )
- Wing Flaps: RETRACT
- Power: Set for climb

**EMERGENCY PROCEDURES**

**Engine Fire**
- during start
  - Starter: Crank
  - To draw away flames, if Engine Starts:
    - Power: 1700rpm
  - For a few minutes until flames appear to be extinguished, or if engine does not start:
    - Mixture: IDLE cut-off
    - Ignition: OFF
    - Master: OFF
  - Inspect damage

**during flight**
- Mixture: IDLE cut-off
- Fuel: OFF
- Master: OFF
- Cabin Air: OFF
- Sideslip: Off
- Initiate if required Proceed with Engine Failure in Flight

**Cabin Fire**
- On the Ground
  - Master Switch: OFF
  - Cabin Vents/Air/Heat: Closed
  - Fire Extinguisher: Activate
  - Cabin Vents/Windhws: Open

- During flight
  - Follow Above Procedure, Once Fire is extinguished:
    - Electrics/Avionics: Off
    - Master: ON
    - Avionics/Electrics: On, one at a time
    - Land at the nearest Suitable Airfield

**Electrical Fire**
- Unknown Source
  - Master Switch: OFF
  - Avionics and Electrics: OFF
  - Circuit Breakers: PULL
  - If Smoke Ceases: ON
  - Essential Electrical/Avionics: On, One at a time
**Electrical failure**

Load ............................................Verify
Reduction to minimum
Alternator ............................................OFF
Alternator CB ............................................Trip & Reset
Alternator ............................................ON
If no Power ............................................OFF

**Cockpit Inspection**

- Aircraft documents: Check
- Pilot’s Operating Handbook
- Aircraft Weight & Balance records
- Certificate of Airworthiness &
- Certificate of Registration
- Maintenance Release
- Aircraft Radio license
- Flight Foli

Control wheel lock: Remove

Hobbs/Tach: Check/Record

Ignition: Off

Avionics Master (if fitted): Off

Master Switch: On

Fuel quantity indicators: Check

Flaps: Down

Lights: On and Check (if Req’d)

Pitot heat: On and Check (if Req’d)

Master Switch: Off

Fuel shut off valve: On

Brakes: Test and Set

Gust Locks: Remove

Covers and tie downs: Remove

**Normal Start**

- Mixture: Rich
- Propeller: High RPM
- Power: ½ Centimeter Open
- Carburetor Heat: Cold
- Magnetos: Both

Prime: 1-3 as req’d

Rotating Beacon: On

Master Switch: On

Fuel Quantity Indicators: Set for Departure

Prop Area: 0

**Fusedelage and Empenage**

- Baggage Door: Check and Lock
- Rivets: Check, Secure
- Nav Light: Check, Secure
- Elevator: Free movement, Secure
- Elevator Trim: Check, Secure
- Balance weights: Secure
- Lock wires: Check, Secure
- Radio antennas: Check, Secure
- Balance weights: Secure
- Rudder: Free, Secure
- Beacon: Check, Secure

**Before starting engine**

- Chocks: Removed
- Preflight: Complete
- Seats/Seat belts: Adjusted & Locked
- Brakes: Set and Hold
- Cowl Flaps: Open
- Fuel Selector: Fullest Tank
- Lights: Off
- Circuit Breakers: Check IN
- Clock: Set
- Altimeter: Set
- Avionics: Off
- Electrical Equipment: Off
- Beacon: On

- Mixture: Rich
- Power: Increase

**Before Takeoff**

- (“Too Many Pilots Fly In Heaven Early”)
- Test Controls: Free & Correct
- Trim: Set for T/O
- Throttle friction lock: Set
- Mixture: Set for takeoff
- Magneto: Both
- Propeller Governor: Full
- Primer: Locked
- Pumps: As required
- Flight Controls: Free and Correct
- Flaps: Set for takeoff
- Cowl Flaps: Open
- Fuel: Correct Tank, Qty
- Instruments: Checked and Set
- Radios: Set for Departure
- Navigation / GPS: Set for Departure
- Hatches: Closed, Locked
- Harnesses: Secure
- Engine Instruments: Checked
- Electrics: CB’s Checked
- Emergency, dep. brief: Perform

**Line-Up**

- Runway/Approach: Clear
- Landing light, strobes: On
- Transponder: Set to altitude
- DI: Aligned with Compass, Rw
- Windsock: Check
- Engine Temps and Pressures: Check

**Normal Takeoff**

- Power: Full
- Manifold Pressure: 1-2” below ambient
- RPM: Redline

- Engine parameters: Check
- Rotate: 60 KIAS
- Climb Speed: 70-90 KIAS

Airborne: with no runway left, with positive climb and above minimum retraction speed

Brakes: Apply (when airborne)

Clear of obstacles and safe climb speed

Wing Flaps: Retract

Power: Set for climb

**Electrical overload**

Load ............................................Verify
Reduce to minimum
Alternator: OFF
Alternator CB: Trip & Reset
Alternator: ON
Load: OK?

If Not:
Master: OFF
Master: ON

IF LOAD still does not return to normal

land at nearest suitable airfield.

**Carburetor Icing**

- Carb Heat: Fully ON
Mixture: Adjust

Once icing/roughness has cleared:
Carb Heat: Cold
Mixture: Reset

**Engine Roughness**

- Magnetos: Check
Mixture: Adjust
Temperatures/Pressures: Check
If roughness continues, plan to land at nearest suitable airfield.

**EMERGENCY PROCEDURES**
Plan to land at the nearest Airfield
### Normal Procedures Expanded Checklist

**NOTE ON CHECKLISTS**

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**HAPPY FLYING!**

---

**Descent/Approach**

- FREDALS’
  - Fuel ........................................ Correct Tank
  - Fuel Qty ....................................... Check
  - Radios/Nav ................................ Set/Clearance Obtained
  - Engine Power/Pitch/Mixture .................. Set
  - Engine Temp/Pressures ...................... Checked
  - Engine Cowl Flaps .......................... As Required
  - DI ........................................ Aligned with Compass
  - Altimeter ..................................... Set
  - Landing Lights .............................. As Required
  - Seats/belts, Doors .......................... Adjusted & Locked

**Approach Set Up**

- Flaps .................................. Below Vfe, first stage
- Brakes .................................... Check
- Undercarriage .......................... Down
- Power/Pitch/Mixture .................. Set
- Fuel ...................................... Correct Tank
- Temp/Pressures ........................ Checked
- Landing Lights .......................... OFF
- Seats/Seatbelts ........................ Secure

**Downwind Checks**

- Brakes .................................... Check
- Undercarriage .......................... Down
- Mixture .............................. Set
- Fuel .......................... Correct Tank, Pumps As req’d
- Temp/Pressures ........................ Checked
- Landing Lights .......................... ON
- Seats/Seatbelts ........................ Secure

**Final Approach**

- ‘CUP’
  - Cowls ................................ Open
  - Carb Heat .......................... Cold
  - Undercarriage ........................ Down and Locked
  - Power/Pitch/Mixture .................. Set

**Normal Landing**

- Touchdown .......................... Main Wheels First
- Nose Wheel .......................... Lower Gently
- Braking ................................. Minimum Required

---

**Red Sky Checklists**

**Cessna 182**

**CONTENTS:**

- Preflight Inspection
- Start and Taxi
- Pretakeoff
- Takeoff & Climb
- Cruise & Descent
- Approach & Landing

**After landing**
### After landing

(Once roll out complete)
- Cowl Flaps: OPEN
- Carb Heat: COLD
- Wing Flaps: RETRACT
- Transponder: Stby
- Strobes/Lights: OFF

### Parking

- Parking Brake: SET
- Time: Record
- Avionics: OFF
- Magnetos: Dead Cut Checked
- Mixture: Cut-Off
- Ignition: OFF
- Master Switch: OFF
- Control Lock: Installed
- Paperwork: Complete

### Securing the aircraft

- Control Lock: Installed
- Paperwork: Complete
- Tie downs/covers: Installed

---

**Compilation notes**

These pages are printed front and back side, then cut around the text the first few pages need to be trimmed and bound to create a flip style check list with tabs at the front, and the expanded procedures on the reverse side. It might take a bit of time to work it out, but the result is quite effective for use by students when they are learning.

If you like jigsaw puzzles have fun!