

REFERENCE INFORMATION

Speeds

NORMAL OPERATION

Unless otherwise stated the following speeds are for MAUW, Sea Level, ISA conditions.

| | |
|-----------------------------------|----------------------------|
| V_R | 55 KIAS |
| V_X – Best Angle of Climb | 65 KIAS |
| V_Y – Best Rate of Climb..... | $V_{Y_{SI}}$ 80 KIAS |
| | $V_{Y_{10,000ft}}$ 75 KIAS |
| Normal approach..... | 70-80 KIAS |
| V_{ref} | 65 KIAS |
| V_A – Maneuvering Speed..... | 90-110 KIAS |

Maximum demonstrated crosswind..... 15kts

PLACARD/ASI LIMITATIONS

| | |
|---|----------|
| V_{NO} – Top of Green Arc | 140 KIAS |
| V_{NE} – Red Line (Never Exceed)..... | 167 KIAS |
| V_{SO} – Stall landing configuration..... | 52 KIAS |
| V_S – Stall Clean | 58 KIAS |
| V_{FE} – Max. Flap Extension 10-40°.... | 110 KIAS |
| V_{FE} – Max. Flap Extension 0-10 °.... | 140 KIAS |

EMERGENCY OPERATION

| | |
|---|-------------|
| Best glide Speed..... | 70 KIAS |
| Precautionary | |
| Slow Safe Cruise..... | 90-105 KIAS |
| Approach (flaps up)..... | 70 KIAS |
| Approach (flaps full)..... | 65 KIAS |
| Ditching..... | 65 KIAS |
| Engine failure after takeoff..... | 70 KIAS |
| Engine Failure in flight flap up..... | 70 KIAS |
| Engine Failure in flight flap down..... | 65 KIAS |

Operating performance

| | |
|------------------------|---------|
| Planning..... | 60kt/hr |
| Plan Cruise speed..... | 125KTAS |

Other Information

Transponder Codes:

| | |
|-----------------------------|------|
| Unlawful Interference..... | 7500 |
| Loss of Communication | 7600 |
| Emergency | 7700 |
| Unassigned..... | 2000 |

Radio Frequencies

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

NORMAL CHECKLIST

Before Start

| | |
|---------------------------|--------------|
| Preflight Inspection..... | Complete |
| Tach/Hobbs/Time..... | Recorded |
| Passenger Briefing..... | Complete |
| Seats / Seatbelts..... | Adjust, Lock |
| Fuel Selector Valve..... | Both |
| Cowl Flaps..... | Open |
| Brakes..... | Set/Hold |
| Avionics..... | Off |
| 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 |

Taxi

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

Run Up

| | |
|-------------------------|-------|
| Parking Brake..... | Set |
| Fuel Selector..... | Both |
| Mixture | Set |
| Engine Instruments..... | Green |
| Cowls..... | Open |

| | |
|-----------------------------|-------------------------------|
| Power..... | Set |
| Mixture..... | Set |
| Carb Heat..... | Check |
| Magnetos..... | 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 |

NORMAL CHECKLIST

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
Hatches 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..... Aligned with Compass, Rwy
Area..... Clear
Windsock..... Check
Engine Parameters..... Green

After Takeoff (above 1000' AGL)

Brakes..... Check
Undercarriage..... Retracted/Fixed
Power/Pitch..... Set
Mixture..... Adjust
Fuel..... Checked
Flaps..... Up
Engine Parameters..... Green
Lights..... As required

Cruise

Power/Prop..... Set
Elevator/Rudder trim..... Adjust
Mixture..... Lean for altitude
Cowl Flaps..... Closed/As Req'd

NORMAL CHECKLIST

Descent

Fuel Correct Tank, Qty checked
Radios..... Set
Approach Briefing..... Complete
Cowl Flaps..... Closed
Mixture..... Set
Power/Prop..... Set
Icing..... As required
Lights..... On/as req'd

Downwind

Brakes..... Check
Undercarriage..... Down/Fixed
Power/Prop..... Set
Mixture..... Set
Fuel..... Correct Tank
Flaps..... Set
Engine Parameters..... Green
Lights..... As required
Seats / Seatbelts..... Check Secure
Fuel Selector..... Both
Carb Heat..... As Required

Final

Cowl Flaps..... Open
Carb Heat..... Off
Undercarriage..... Down & Locked/Fixed
Propeller Pitch..... Full fine

After Landing

Cowl Flaps..... Open
Trim..... Takeoff
Flaps..... Retract
Carb Heat..... Off
Land, Strobe lights..... Off
Transponder..... Standby

Shutdown and Securing

Power..... Idle
Avionics and Switches..... Off
Mixture..... Idle Cutoff
Mags..... Off
Master..... Off
Control Lock..... In
Hobbs and Tach..... Record
Tie Downs..... Attached

CAUTION:

Speeds may differ between models of C182, refer to the aircraft's flight manual and use a fine marker pen to indicate any differences