

**CESSNA 182Q****Start / Takeoff / Cruise****CESSNA 182Q****Descent / Landing / Shutdown****BEFORE ENGINE START**

Preflight Inspection  
 Cell Phones OFF  
 Seat Belts & Harnesses  
 Passenger Briefing  
 Fuel Selector BOTH  
 Avionics Power OFF  
 Autopilot OFF  
 Circuit Breakers  
 Parking Brake SET  
 Cowl Flaps OPEN

**STARTING ENGINE**

Throttle OPEN 1/2 INCH  
 Propeller HIGH RPM  
 Carburetor Heat COLD  
 Master Switch ON  
 Rotating Beacon / NAV Lights  
 Mag/EIS Switches ON  
 Mixture RICH  
 Prime (2-3 time), then lock (3:00)  
 Mixture IDLE/CUTOFF  
 Propeller Area "CLEAR"  
 Ignition Button, Push to START  
 Mixture ADJUST  
 Oil Pressure  
 Ammeter  
 Suction Gauge  
 Wing Flaps UP

**NAV/COMM**

Avionics Power ON  
 Intercom CHECK  
 Marker Beacon TEST  
 Com 1 SET  
 Com 2 SET  
 Nav 1 TEST / SET  
 Nav 2 TEST / SET  
 ATIS / SET ALTIMETER  
 GPS SET

**BEFORE TAXI**

Flight Instruments  
 Transponder 1200 STANDBY  
 Taxi Light ON  
 Parking Brake OFF  
 Permission to Taxi

**RUNUP CHECK**

Parking Brake SET  
 Flight Controls & Trim  
 Fuel Selector BOTH  
 Fuel Quantity  
 Autopilot / Air Cond OFF  
 Throttle 1800  
 Mixture ADJUST  
 Magnetos  
 Propeller CYCLE  
 Oil Pressure  
 Oil Temperature  
 Ammeter  
 Suction Gauge  
 Annunciator Panel  
 Throttle IDLE  
 Throttle 1000  
 Apply carburetor heat  
 Circuit Breakers  
 Flight Instruments  
 Radios  
 Transponder ALT  
 Landing Light / Strobes  
 Cabin Doors & Windows  
 Takeoff Briefing  
 Wing Flaps SET  
 Parking Brake OFF  
 Permission to Take Off  
 Carburetor heat off

**NORMAL TAKEOFF**

Throttle FULL  
 Rotate 50 KIAS  
 Trim for 70-80 KIAS  
 Prop 2400 RPM at 500 AGL

**CRUISE CLIMB**

Airspeed 85-95 KIAS  
 Power 23 INCHES / 2400 RPM  
 Mixture Adjust

**CRUISE**

Power / Prop / Mixture  
 Elevator & Rudder Trim  
 Cowl Flaps CLOSED  
 Engine Instruments  
 Landing Light OFF  
 Apply carburetor heat as required

**DESCENT**

Fuel Selector Valve BOTH  
 Power / Mixture  
 Carburetor heat on below green arc  
 Cowl Flaps CLOSED  
 Landing Light ON

**PATTERN ENTRY**

Trim for 85 KIAS  
 Power 15 INCHES  
 Flaps 10°

**BASE LEG**

Trim for 75 KIAS  
 Flaps 20°

**APPROACH**

Trim for 65 KIAS  
 Gas BOTH  
 Undercarriage  
 Mixture  
 Propeller HIGH RPM  
 Safety SECURE  
 Autopilot OFF  
 Flaps 30°

**AFTER LANDING CHECK**

Wing Flaps UP  
 Cowl Flaps OPEN  
 Mixture Adjust  
 Landing Lights / Strobes OFF  
 Taxi Lights ON  
 Transponder STANDBY

**SHUTDOWN**

Throttle 1000 RPM  
 Aspen EFD1000 Switch OFF  
 Avionics Power Switch OFF  
 Electrical Equipment OFF  
 External Lights OFF  
 Throttle 1200 RPM  
 Magneto/EIS Safety Check  
 Mixture IDLE CUTOFF  
 Ignition Switch OFF  
 All Lights & Switches OFF  
 Master Switch OFF  
 Cowl Flaps CLOSED  
 Fuel Selector RIGHT or LEFT

**SECURING AIRCRAFT**

Run mains over orange stripes  
 Center nose gear over centerline  
 Push up against chocks  
 Place nose chocks  
 Control Lock INSTALL  
 Aircraft Hobbs & Tachometer RECORD  
 Master Switch VERIFY OFF  
 Doors and Baggage Door LOCK  
 Post Flight Inspection  
 Stow all seatbelts  
 Hangar door: will it clear prop?

**AIRSPEEDS FOR SAFE OPERATION****Takeoff – Flaps Up**

Rotation ..... 55 KIAS  
 Short Field ..... 57 KIAS

**Enroute Climb – Flaps Up**

Normal Climb-out ..... 85-95 KIAS  
 Best Rate (V<sub>y</sub>) ..... 75 KIAS  
 Best Angle (V<sub>x</sub>) ..... 60 KIAS

**Landing Approach**

Normal – Flaps Up ..... 75 KIAS  
 Normal – Flaps 30° ..... 65 KIAS  
 Short Field – Flaps 40° ..... 60 KIAS

**V<sub>FE</sub>**

10° Flaps ..... 140 KIAS  
 10° to 40° ..... 95 KIAS

**Balked Landing**

Max Pwr – Flaps 20° ..... 55 KIAS

**Maximum Maneuvering Speeds**

3100 lbs ..... 110 KIAS  
 2600 lbs ..... 101 KIAS  
 2100 lbs ..... 88 KIAS

**Best Glide**

Flaps UP ..... 75 KIAS  
 Flaps DOWN ..... 70 KIAS

**Max Xwind** ..... 15 KIAS