

Cessna 182S Skylane Normal Checklist

PREFLIGHT

Cabin
 Documents A R O W
 Control Lock REMOVE
 Circuit Breakers CHECK IN
 Magnetos OFF
 Avionics Master OFF
 Master ON
 Fuel Quantity Indicators CHECK
 Avionics Master ON
 Avionics Cooling Fan CHECK Audibly
 Avionics Master OFF
 Alternate Static CHECK then OFF
 Annunciator Panel TEST
 Fuel Selector BOTH
 Flaps EXTEND
 All Lights & Pitot Heat ON & CHECK
 All Lights & Pitot Heat OFF
 Master OFF
 Baggage Door SECURE

Empennage

Rudder Gust Lock (if installed) REMOVE
 Tail Tie-down REMOVE
 Control Surfaces FREE, SECURE
 Trim Tab SECURE
 Antennas CHECK

Right Wing

Flap CHECK
 Aileron FREE, SECURE
 Tie-down REMOVE
 Fuel Tank Vent CLEAR
 Main Wheel Tire CHECK
 Fuel Tank Sump DRAIN & CHECK
 Fuel Quantity CHECK VISUALLY
 Fuel Filler Cap SECURE

Nose

Static Source Opening CLEAR
 Fuel Strainer DRAIN & CHECK
 Engine Oil CHECK (9 to 4 qts)
 Engine Cooling Intakes CLEAR
 Propeller & Spinner CHECK
 Air Filter CLEAR
 Nose Wheel Strut & Tire CHECK
 Static Source Opening CLEAR

Left Wing

Fuel Quantity CHECK VISUALLY
 Fuel Filler Cap SECURE
 Fuel Tank Sump DRAIN & CHECK
 Main Wheel Tire CHECK
 Pitot Tube Cover REMOVE & CHECK
 Fuel Tank Vent Opening CLEAR
 Stall Warning Vane CHECK
 Wing Tie-down REMOVE
 Aileron FREE, SECURE
 Flap CHECK

PRE START

Preflight Inspection COMPLETE
 Passenger Brief COMPLETE
 Seats, Belts & Harnesses SECURED
 Brakes HOLD
 Avionics Master OFF
 Autopilot OFF
 Cowl Flaps OPEN
 Fuel Selector BOTH
 Beacon ON

STARTING

Throttle OPEN ¼”
 Propeller HIGH RPM
 Mixture IDLE CUT OFF
 Propeller Area CLEAR
 Master ON
 Fuel Pump ON
 Mixture RICH, until flow moves
 Mixture IDLE CUT OFF
 Fuel Pump OFF
 Magnetos START
 Mixture ADVANCE smoothly when engine fires
 Oil Pressure CHECK
 Avionics Master ON
 Flaps UP
 Transponder STANDBY
 Mixture LEAN 1”

TAXI

Brakes TEST
 Turn Instruments CHECK

VFR Day Minimum Equipment:

Gas Gauges, Oil Temp, Oil Pres., Seat Belts, ELT, Altimeter, Compass, Airspeed indicator, Tach., Ldg gear position ind., Manifold Pressure gauge, Temp gauge (lqd cooled)

VFR Night/Minimum Equipment:

Position Lights (NAV), Anti-Collision Lights (beacon, strobes), Landing Light (if for hire), Electrical source, Spare fuses.

IFR Minimum Equipment:

D irectional Gyro
 E lectrical source
 C lock (h.m.s)
 A ltimeter (pressure sensitive)
 R adios appropriate for nav aids to be used
 A titude indicator
 T urn Coordinator

VOR Check last 30 day

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RUNUP

Brakes HOLD
 Passenger Seat Backs UPRIGHT
 Seats & Belts SECURED
 Cabin Doors & Windows SECURED
 Flight Controls FREE, CORRECT
 Flight Instruments SET, CORRECT
 Fuel Quantity CHECK
 Mixture RICH
 Fuel Selector BOTH
 Throttle 1800 RPM
 Magnetos CHECK (150/50)
 Propeller CYCLE RPM
 Vacuum CHECK
 Engine Instr. & Ammeter CHECK
 Annunciator Panel CHECK, no lights
 Throttle IDLE CHECK
 Throttle 1000 RPM
 Throttle Friction SET
 Navigation & Strobe Lights As Req'd
 Radios & Avionics SET
 Nav/GPS/HSI Switch SET
 Autopilot OFF
 Trim SET for Takeoff
 Flaps SET for Takeoff (0° to 20°)
 Cowl Flaps OPEN

LINE UP

Time RECORD
 Transponder SET, Squawk ALT.
 Pitot Heat As Req'd
 Lights ON, as req'd
 H.I. to Compass SET

TAKE OFF

Throttle FULL & 2400 RPM
 Mixture RICH, Max. Power
 Rotate Vr 55
 Climb Speed Vy 80
 Flaps RETRACT

CLIMB

Airspeed 85 – 95 KIAS
 Power 23”MP – 2400 RPM
 Mixture 15GPH or Full Rich
 Fuel Selector BOTH
 Cowl Flaps OPEN

CRUISE

Power 15–23” MP, 2000–2400 RPM
 Elevator & Rudder Trim SET
 Mixture LEAN
 Cowl Flaps CLOSED

DESCENT

Power AS DESIRED
 Mixture ENRICH as req'd
 Cowl Flaps CLOSED
 Fuel Selector BOTH
 NAV/GPS/HSI Switch SET
 Flaps As Desired

BEFORE LANDING

Seats, Belts & Harnesses SECURED
 Fuel Selector BOTH
 Mixture RICH
 Propeller HIGH RPM
 Landing Light ON
 Autopilot OFF

LANDING

Airspeed 60-70 KIAS
 Flaps FULL

GO AROUND

Throttle FULL & 2400RPM
 Flaps RETRACT to 20°
 Climb Speed 55 KIAS
 Flaps RETRACT, at 70 KIAS
 Cowl Flaps OPEN

AFTER LANDING

Flaps UP
 Cowl Flaps OPEN
 Mixture LEAN 1”
 Transponder STANDBY
 Lights As Req'd

SECURING

Avionics Master OFF
 Mixture IDLE CUT OFF
 Magnetos OFF
 Master OFF
 Control Lock INSTALL

Cessna 182S Skylane Emergency Checklist

ENGINE FAILURE DURING TAKEOFF ROLL

Throttle IDLE
 Brakes APPLY
 Flaps RETRACT
 Mixture IDLE CUT OFF
 Magnetos OFF
 Master OFF

ENGINE FAILURE AFTER TAKEOFF

Airspeed..... 75 KIAS (flaps UP)
 70 KIAS (flaps DOWN)
 Mixture IDLE CUT OFF
 Fuel Selector Valve OFF
 Magnetos OFF
 Flaps As req'd, FULL recommended
 Master OFF
 Cabin Door UNLATCH
 Land STRAIGHT AHEAD

ENGINE FAILURE DURING FLIGHT

Airspeed..... 75 KIAS
 Fuel Selector BOTH
 Fuel Pump ON
 Mixture RICH
 Magnetos . BOTH (start if prop stopped)

EMERGENCY LANDING WITHOUT ENGINE POWER

Passenger Seats & Belts SECURED
 Airspeed..... 75 KIAS (flaps UP)
 70 KIAS (flaps DOWN)
 Mixture IDLE CUT OFF
 Fuel Selector OFF
 Magnetos OFF
 Flaps as req'd, FULL recommended
 Master OFF
 Doors UNLATCH
 Touchdown TAIL LOW
 Brakes APPLY HEAVILY

PRECAUTIONARY LANDING WITH ENGINE POWER

Passenger Seats & Belts SECURED
 Airspeed 75 KIAS
 Flaps 20°
 Selected Field FLY OVER, inspect
 Avionics Master OFF
 Flaps FULL on final
 Airspeed 70 KIAS
 Master OFF
 Doors UNLATCH
 Touchdown TAIL LOW
 Magnetos OFF
 Brakes APPLY HEAVILY

DITCHING

Transmit MAYDAY on 121.5
 Heavy Objects . SECURE or JETTISON
 Passenger Seats & Belts SECURE
 Flaps 20° to FULL
 Power. ESTABLISH 300FPM @ 65kias
 Approach:
 High winds, heavy seas. INTO WIND
 Lgt wind, Hvy swells...Parallel swells
 Cabin Doors UNLATCH
 Touchdown..... LEVEL ATTITUDE
 Face CUSHION
 Airplane..... EVACUATE
 Life Vests & Raft INFLATE when clear

ENGINE FIRE DURING START

Cranking CONTINUE
 If engine starts:
 Power 1700 RPM few minutes
 Engine SHUTDOWN
 If engine fails to start:
 Throttle FULL OPEN
 Mixture IDLE CUT OFF
 Cranking CONTINUE
 Fuel Selector OFF
 Fuel Pump OFF
 Fire Extinguisher OBTAIN
 Master OFF
 Magnetos OFF
 Airplane EVACUATE
 Fire EXTINGUISH

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ENGINE FIRE IN FLIGHT

Mixture IDLE CUT OFF
 Fuel Selector OFF
 Fuel Pump OFF
 Master OFF
 Cabin Heat & Air OFF
 Airspeed..... 100 KIAS or more
 Forced Landing EXECUTE

ELECTRICAL FIRE IN FLIGHT

Master OFF
 Vents, Cabin Air, Heat CLOSED
 Fire Extinguisher ACTIVATE
 Avionics Master OFF
 All Other switches OFF
 Vents, Cabin air, Heat OPEN
 If fire out and electrical power is necessary to continue flight:
 Master ON
 Circuit Breakers..... CHECK, don't reset
 Radios OFF
 Avionics Master ON
 Radios/Electrical ON, one at a time

CABIN FIRE

Master OFF
 Vents, Cabin air, Heat OFF
 Fire Extinguisher ACTIVATE
 Vents, Cabin air, Heat OPEN
 LAND ASAP

WING FIRE

Landing/Taxi Light OFF
 Navigation Lights OFF
 Strobe Lights OFF
 Pitot Heat OFF
 Slip to keep fire from fuel tank/cabin

ICING

Pitot Heat ON
 Turn back or change altitude
 Pull Cabin Heat full out and rotate defroster control.
 Increase Engine Speed
 Watch for signs of Induction icing
 Plan landing at nearest airport
 Perform a no flap landing
 With ice build up stall speed is higher
 Approach at 80 – 90 KIAS

AMMETER SHOWS EXCESSIVE RATE OF CHARGE

(Full scale deflection)
 Alternator Master OFF
 Nonessential Electrical OFF
 FlightTERMINATE, as soon as practical

LOW VOLTAGE ANNUNCIATOR ILLUMINATES DURING FLIGHT

(Ammeter indicates discharge)
 Avionics Master OFF
 Alternator Circuit Breaker... CHECK IN
 Master OFF (both sides)
 Master ON
 Low Volt Annunciator..... CHECK OFF
 Avionics Master ON
 If Low Volt Light still on:
 Alternator Master OFF
 Nonessential Electrical OFF
 FlightTERMINATE as soon as practical

GENERAL INFORMATION

V Speeds

Vr	55	Vfe 0°-10°	140
Vx	63	Vfe 10°-20°	120
Vy	80	Vfe20°-full	100
Va (full)	110	Vne	175
Va2600	101	Vno	140
Vs0	36	Window	175
Vs1	43		

Max. Takeoff weight: 3100lbs
 Max. Landing weight: 2950lbs
 Max. Baggage Compartment:
 Baggage Area A 120lbs
 Baggage Area B 80lbs
 Baggage Area C 80lbs
Max. combined weight for A,B & C is 120lbs

Engine: IO-540-AB1A5, 235BHP
 Fuel Grade/Capacity: 100LL/88gal.
 Oil Capacity 9 quarts, 4 min.
 Electrical Systems ...24-28 Volt, 60 amp
 Tire Pressure:..... Nose 49 psi
 Main 42 psi