Cessna R182 Checklist
N3138C

NORMAL PROCEDURES

Limiting and Recommended Airspeeds

Va – Maneuvering Speed	3100 lbs	112 KIAS
	2550 lbs	101 KIAS
	2000 lbs	89 KIAS
Vapp – Final Approach Speed		65-75 KIAS
Vfe – Max Flap Extension Speed	10°	140 KIAS
	10°- 40°	95 KIAS
Vle – Land. Gear Extended Speed		140 KIAS
Vlo – Max Land. Gear Op Speed		140 KIAS
Vne – Never Exceed Speed		182 KIAS
Vno – Normal Op Speed		143 KIAS
Vr – Rotation Speed		50 KIAS
Vso – Stall Speed (Landing Config)		37 KIAS
Vs1 – Stall Speed (Clean)		42 KIAS
Vx – Best Angle of Climb Speed		65 KIAS
Vy – Best Rate of Climb Speed		81 KIAS
Best Enroute Rate of Climb Speed		95 KIAS
Best Glide Speed		80-70 KIAS

PREFLIGHT

CABIN

1. Hobbs / Tach ____ CHECK
2. Airworthiness Inspections ____ CHECK
3. AROW ____ CHECK
4. Control Wheel Lock ____ REMOVE
5. Ignition Switch ____ OFF
6. Electrical Equipment ____ OFF
7. Gear Handle ____ DOWN
8. Master Switch ____ ON
9. Fuel Quantity ____ CHECK
10. Lights ____ CHECK
11. Wing Flaps ____ 40 DEGREES
12. Stall Warning Horn ____ CHECK
13. Gear Warning Horn ____ CHECK
14. Master Switch ____ OFF
15. Fuel Selector Valve ____ BOTH
16. **Gear Fluid ____ CHECK**

EMPENNAGE

1. Baggage Door ____ LOCKED
2. Antennas ____ CHECK
3. Fuselage ____ CHECK (skin & rivets)
4. Elevator ____ CHECK
5. Rudder ____ CHECK
6. Lights ____ CHECK
7. Fuselage ____ CHECK

RIGHT WING

1. Wing Flaps ____ CHECK
2. Aileron ____ CHECK
3. Lights ____ CHECK
4. Leading Edge ____ CHECK
5. Fuel Quantity ____ CHECK
6. Filler Caps ____ SECURE
7. Top of Wing ____ CHECK
8. Fuel Tank Sump ____ DRAIN
9. Main Wheel, Wheel Well, Brakes ____ CHECK
10. Chocks / Wing Tie Down ____ REMOVE

NOSE

1. Static Port ____ CHECK
2. Windshield ____ CHECK
3. Cowling Screws ____ CHECK
4. Oil ____ CHECK (5-8 quarts)
5. Fuel Strainer ____ DRAIN
6. Fuel Sump (under belly) ____ DRAIN
7. Cowl Flaps ____ CHECK
8. Alternator Belt ____ CHECK
9. Propeller and Spinner ____ CHECK
10. Landing Lights ____ CHECK
11. Nose Wheel ____ CHECK
12. Squat Switch ____ CHECK
13. Exhaust ____ CHECK
14. Cowling Screws ____ CHECK
15. Air Intake / Filter ____ CHECK
16. Static Port ____ CHECK

LEFT WING

1. Chock / Wing Tie Down ____ REMOVE
2. Fuel Quantity ____ CHECK
3. Filler Caps ____ SECURE
4. Top of Wing ____ CHECK
5 Pitot Tube ____ CHECK
6. Fuel Tank Vent ____ CHECK
7. Stall Warning ____ CHECK
8. Leading Edge ____ CHECK
9. Lights ____ CHECK
10. Aileron ____ CHECK
11. Wing Flaps ____ CHECK
12. Main Wheel, Wheel Well, Brakes ____ CHECK
13. Fuel Tank Sump ____ CHECK

BEFORE START

1. Preflight Inspection ____ COMPLETE
2. Seats ____ LOCKED
3. Seat Belts and Shoulder Harnesses ____ SECURE
4. Doors ____ CLOSED & LOCKED
5. Electrical Equipment ____ OFF
6. Avionics Switch ____ OFF
7. Circuit Breakers ____ IN
8. Beacon ____ ON
9. Gear Handle ____ DOWN
10. Cowl Flaps ____ OPEN
11. Brakes ____ TEST & HOLD
12. Passenger Briefing ____ BRIEF

ENGINE START

1. Mixture ____ RICH
2. Propeller ____ FULL FORWARD
3. Throttle ____ OPEN ¼ inch
4. Carb Heat ____ OFF
5. Primer ____ 0-6 STROKES
6. Master Switch ____ ON
7. Propeller Area ____ CLEAR
8. Ignition Switch ____ START
9. Throttle ____ 800 RPM
10. Oil Pressure ____ CHECK
11. Ammeter ____ CHECK
12. Mixture ____ LEAN AS REQUIRED

BEFORE TAXI

1. Flaps ____ UP
2. Landing Gear Indicator Light ____ CHECK GREEN
3. Nav Lights ____ ON (night ops)
4. Avionics Switch ____ ON
5. Circuit Breakers ____ CHECK
6. Throttle ____ 800-1000 RPM
7. Engine Analyzer ____ SET FUEL QUANTITY
8. Transponder ____ 1200 & STBY
9. Radios ____ SET & TEST
10. ATIS / AWOS ____ OBTAIN
11. Altimeter ____ SET
12. Directional Gyro ____ SET

TAXI

1. Brakes ____ TEST
2. Flight Controls ____ SET FOR WIND
3. Taxi Clearance ____ RECEIVE
4. Flight Instruments ____ CHECK

BEFORE START

START

BEFORE TAXI

TAXI

Pueblo Memorial Airport Frequencies

ATIS	125.25
Ground	121.90
Tower 8L/26R	119.10
Tower 8R/26L	123.67
Approach	120.10

BEFORE TAKEOFF

1. Brakes ____ SET
2. Seat Belts and Shoulder Harnesses ____ SECURE
3. Flight Controls ____ FREE & CORRECT
4. Trims (Elevator & Rudder) ____ SET FOR TAKEOFF
5. Fuel Selector Valve ____ BOTH
6. Throttles ____ 1700 RPM
   - Mixtures ____ SET FOR TAKEOFF (RICH OF PEAK)
   - Propeller ____ EXCERCISE
   - Magnetos ____ CHECK (NOT TO EXCEED 175RPM DROP)
   - Engine Instruments ____ CHECK
   - Suction Gauge ____ CHECK
   - Fuel Pump ____ CHECK RISE IN PRESSURE
   - Carb Heat ____ ON & CHECK
7. Throttle ____ IDLE
8. Carb Heat ____ OFF
9. Throttle Friction Lock ____ ADJUST
10. Flight Instruments ____ CHECK
11. Auto Pilot ____ OFF
12. Radios ____ SET
13. Takeoff Briefing ____ REVIEW
14. Emergency Procedures ____ BRIEF
15. Transponder ____ ALT & SQUAWK CODE
16. Doors & Windows ____ LOCKED
17. Takeoff Clearance ____ RECEIVE
18. Brakes ____ RELEASE

NORMAL TAKEOFF

1. Wing Flaps ____ 10 DEGREES
2. Carb Heat ____ COLD
3. Throttle ____ FULL OPEN
4. Engine Instruments ____ CHECK IN GREEN
5. Airspeed ____ ALIVE
6. Elevator ____ ROTATE @ 50 KIAS
7. Landing Gear ____ RETRACT
8. Flaps ____ 0 DEGREES ABOVE 75 KIAS
9. Climb Speed ____ 80 KIAS

SHORT FIELD TAKEOFF

1. Wing Flaps ____ 20 DEGREES
2. Brakes ____ HOLD
3. Throttle ____ FULL OPEN
4. Engine Instruments ____ CHECK IN GREEN
5. Brakes ____ RELEASE
6. Airspeed ____ ALIVE
7. Elevator ____ ROTATE @ 50 KIAS
8. Climb Speed ____ 55 KIAS
9. Landing Gear ____ RETRACT
10. Wing Flaps ____ 0 DEGREES ABOVE 75 KIAS
11. Climb Speed ____ 80 KIAS

SOFT FIELD TAKEOFF

1. Wing Flaps ____ 20 DEGREES
2. Elevator ____ TAIL LOW
3. Throttle ____ FULL OPEN
4. Engine Instruments ____ CHECK IN GREEN
5. Airspeed ____ ALIVE
6. Remain in Ground Effect ____ 60 KIAS
7. Landing Gear ____ RETRACT
8. Wing Flaps ____ 0 DEGREES ABOVE 75 KIAS
9. Climb Speed ____ 80 KIAS

BEFORE TAKEOFF

TAKEOFF

CLIMB

1. Airspeed ____ 90-100 KIAS
2. Throttle ____ 23 in. HG
3. Propeller ____ 2350 RPM
4. Cylinder Head Temperatures ____ MONITOR
5. Exhaust Gas Temperatures ____ MONITOR
6. Mixture ____ LEAN AS REQUIRED

CRUISE

1. Airspeed ____ ESTABLISH
2. Power ____ REFER TO POWER CHART
3. Trim ____ ADJUST
4. Cowl Flaps ____ CLOSED
5. Engine Instruments ____ MONITOR
6. Mixture ____ LEAN AS REQUIRED
7. Landing / Taxi Light ____ OFF

DESCENT

1. Mixture ____ ADJUST
2. Propeller ____ CRUISE RPM
3. Cowl Flaps ____ CLOSED
4. Throttle ____ AS REQUIRED
5. Weather / Approach Briefing ____ COMPLETE

IFR APPROACH SETUP

Brief Procedure:

1. Inbound Course ____ SET
2. Nav Frequency ____ SET - TUNE
3. FAF ____ WHAT & WHERE - SET
4. DH / MDA ____ WHAT & WHERE
5. MAP ____ WHAT & WHERE
6. Missed Procedure ____ REVIEW

Pre-Approach:

1. Approach Procedure ____ BRIEF
2. DG ____ SET
3. Markers ____ TEST - SET LOW - PHONE
4. Nav Radios ____ SET – TUNE – TEST
5. GPS ____ SET
6. Wind & Ceiling ____ VIEW MINIMUMS
7. **CGUMPS** ____ COMPLETE
8. Flaps ____ 10 DEGREES
9. Approach Clearance ____ RECEIVE

Final Approach Fix:

1. Time ____ START
2. Landing Gear ____ DOWN
3. Descent ____ GO DOWN
4. GPS ____ SET

CLIMB – CRUISE

DESCENT

IFR APPROACH SETUP

BEFORE LANDING

1. C – Cowl Flaps ____ CLOSED
2. G- Gas / Fuel Selector Valve ____ BOTH
3. U – Undercarriage / Gear ____ DOWN & LOCKED
4. M – Mixture ____ ADJUST
5. P – Propellers ____ HIGH RPM
6. S – Seatbelts ____ SECURE
7. Carb Heat ____ AS REQUIRED
8. Flaps ____ AS DESIRED
9. Airspeed ____ 85-95 KIAS

NORMAL LANDING

1. Airspeed ____ 65-75 KIAS
2. Wing Flaps ____ AS DESIRED
3. Touchdown ____ MAIN WHEELS FIRST
4. Landing Roll ____ LOWER NOSE WHEEL GENTLY
5. Brakes ____ MINIMUM REQUIRED
6. Back Pressure ____ APPLY

SHORT FIELD LANDING

1. Airspeed ____ 65 KIAS
2. Wing Flaps ____ 40 DEGREES
3. Touchdown ____ MAIN WHEELS FIRST
4. Brakes ____ APPLY
5. Wing Flaps ____ 0 DEGREES
6. Back Pressure ____ APPLY

SOFT FIELD LANDING

1. Airspeed ____ 70 KIAS
2. Wing Flaps ____ 20 DEGREES
3. Touchdown ____ MAIN WHEELS FIRST
4. Landing Roll ____ LOWER NOSE WHEEL GENTLY
5. Brakes ____ MINIMUM REQUIRED

GO-AROUND

1. Throttle ____ FULL OPEN
2. Propeller ____ FULL FORWARD
3. Carb Heat ____ COLD
4. Landing Gear ____ RETRACT
5. Airspeed ____ 80 KIAS
6. Wing Flaps ____ RETRACT
7. Cowl Flaps ____ OPEN

AFTER LANDING

1. Wing Flaps ____ 0 DEGREES
2. Carb Heat ____ COLD
3. Cowl Flaps ____ OPEN
4. Transponder ____ STBY & 1200
5. Mixture ____ LEAN FOR TAXI
6. Landing / Taxi Light ____ OFF
7. Taxi ____ BELOW 1000 RPM

SHUTDOWN / SECURING AIRPLANE

1. Magneto Ground ____ CHECK
2. Electrical Equipment ____ OFF (NOT BEACON)
3. Avionics Switch ____ OFF
4. Mixture ____ IDLE–CUT OFF
5. Beacon ____ OFF
5. Ignition Switch ____ OFF
6. Master Switch ____ OFF
7. Control Wheel Lock ____ INSTALL
8. Window ____ CLOSED
9. Wheel Chock ____ INSTALL

BEFORE LANDING

LANDING

GO AROUND

AFTER LANDING

SHUTDOWN

EMERGENCY PROCEDURES

ENGINE FAILURE DURING TAKEOFF

ON TAKEOFF ROLL

1. Throttle _____ CLOSED
2. Braking _____ AS REQUIRED
3. Fuel Selector _____ OFF
4. Master Switch _____ OFF

AFTER TAKEOFF

1. Airspeed _____ 70 KIAS
2. Flaps _____ AS REQUIRED
3. Landing Gear _____ AS REQUIRED
4. Master Switch _____ OFF
5. Door _____ OPEN

Land Straight Ahead

ENGINE FAILURE DURING FLIGHT

1. AVIATE _____ FLY THE PLANE – 80 KIAS
2. NAVIGATE _____ FIND A LANDING SPOT
3. INVESTIGATE _____ RESTART PROCEDURE
   - Fuel Selector
   - Mixture
   - Propeller
   - Throttle
   - Carb Heat
   - Primer
   - Ignition Switch
   - Fuel Pump – Check pressure
   - Engine Instruments
4. COMMUNICATE _____ 121.50
   "Mayday, Mayday, Mayday, N3138C, Cessna 182RG, Located___Engine failure with __ people on board, ___ gallons of fuel, Aircraft is red on white. Planning to land___".
   SQUAWK _____ 7700
5. SHUTDOWN _____ SEAT BELTS / DOOR OPEN/ FUEL OFF

ENGINE FAILURE

EMERGENCY LAND WITHOUT POWER

EMERGENCY LANDING WITHOUT POWER

1. Airspeed _____ 80 KIAS
2. Fuel Selector _____ OFF
3. Mixture _____ IDLE CUTOFF
4. Ignition Switch _____ OFF
5. Seat Belts _____ SECURE
6. Doors _____ OPEN / UNLATCH
7. Radio Call _____ DECLARE EMERGENCY
8. Landing Gear _____ AS REQUIRED
9. Flaps _____ AS REQUIRED
10. Master Switch _____ OFF
11. Touchdown _____ TAIL LOW
12. Brakes _____ AS REQUIRED

EMERGENCY OFF AIRPORT LANDING WITH ENGINE POWER

1. Airspeed ____ 85 KIAS
2. Select Field ____ FLY OVER
3. Radio Call ____ DECLARE EMERGENCY
4. Wing Flaps ____ AS REQUIRED
5. Airspeed ____ 80 KIAS
6. Landing Gear ____ AS REQUIRED
7. Flaps ____ AS REQUIRED
8. Master Switch ____ OFF
9. Doors ____ OPEN / UNLATCH
10. Seat Belts ____ SECURE
11. Touchdown ____ TAIL LOW
12. Brakes ____ AS REQUIRED
13. Ignition Switch ____ OFF
14. Fuel Selector ____ OFF

ENGINE FIRE DURING START

1. Starter Switch ____ CONTINUE CRANKING

If engine starts:

1. Throttle ____ 1700 RPM (RUN FOR 2 MINUTES)
2. Fuel Selector ____ OFF
3. Mixture ____ IDLE CUTOFF
4. Ignition Switch ____ OFF
5. Master Switch ____ OFF
6. Fire Extinguisher ____ OBTAIN
7. Fire ____ EXTINGUISH

If engine fails to start:

1. Throttle ____ FULL OPEN
2. Mixture ____ IDLE CUTOFF
3. Starter Switch ____ CONTINUE CRANKING
4. Fire Extinguisher ____ OBTAIN
5. Fuel Selector ____ OFF
6. Master Switch ____ OFF
7. Ignition Switch ____ OFF
8. Evacuate
9. Fire ____ EXTINGUISH
10. Fire Damage ____ INSPECT

ENGINE FIRE IN FLIGHT

1. Fuel Selector ____ OFF
2. Mixture ____ IDLE CUTOFF
3. Throttle ____ CLOSED
4. Cabin Heat & Air ____ OFF
5. Master Switch ____ OFF
6. Airspeed ____ 100 KIAS
7. Bank Angle ____ 45 DEGREES

IF FIRE IS NOT EXTINGUISHED, INCREASE GLIDE SPEED TO FIND AN AIRSPEED WHICH WILL PROVIDE AN INCOMBUSTIBLE MIXTURE

8. Emergency Landing ____ EXECUTE

LANDING WITH ENGINE POWER

ENGINE FIRE

ELECTRICAL FIRE

1. Master Switch ____ OFF
2. Avionics Switch ____ OFF
3. Electrical Equipment ____ OFF
4. Vents/Cabin Air/Heat ____ CLOSE
5. Fire Extinguisher ____ ACTIVATE AS NECESSARY

After discharging an extinguisher within a closed cabin, Ventilate the cabin.

If fire appears out and electrical power is necessary for Continuance of flight:

6. Master Switch ____ ON
7. Circuit Breakers ____ CHECK – DO NOT RESET
8. Radios ____ OFF
9. Avionics Switch ____ ON
10. Radios / Electrical Equipment ____ ON
11. Vents/Cabin Air/Heat ____ OPEN

Land as soon as practical

Initiate Manual Gear Extension Procedure

CABIN FIRE

1. Master Switch ____ OFF
2. Vents/Cabin Air/Heat ____ CLOSE
3. Fire Extinguisher ____ EXTINGUISH

After discharging an extinguisher within a closed cabin, Ventilate the cabin.

Land as soon as practical to inspect for damage

WING FIRE

1. Master Switch ____ OFF
2. Nav Lights ____ OFF
3. Pitot Heat ____ OFF

Perform a side slip to keep the flames away from the fuel Tank and cabin, and land as soon as practical,

4. Master Switch ____ ON
5. Emergency Landing ____ EXECUTE AS NECESSARY

ELECTRICAL FAILURE

EXCESSIVE DISCHARGE:

1. Ammeter ____ INDICATES DISCHARGE
2. Alternator Circuit Breakers ____ CHECK
3. Electrical Load ____ REDUCE TO MINIMUM

If battery is depleted initiate manual gear extension procedure.

BATTERY OVERCHARGE:

1. Ammeter ____ INDICATES EXCESSIVE CHARGE
2. Alternator ____ OFF
3. Electrical Load ____ REDUCE TO MINIMUM

If battery is depleted initiate manual gear extension procedure.

ELECTRICAL FIRE

CABIN / WING FIRE

ELECTRICAL FAILURE

HIGH OIL TEMPERATURE

1. Mixture ENRICH
2. Power REDUCE IF NECESSARY
3. Airspeed MAINTAIN ABOVE 100 KIAS
4. Cowl Flaps OPEN

HIGH CYLINDER HEAD TEMPERATURE

1. Mixture ENRICH
2. Power REDUCE IF NECESSARY
3. Cowl Flaps OPEN
3. Airspeed MAINTAIN ABOVE 100 KIAS

HIGH EXHAUST GAS TEMPERATURE

1. Mixture ENRICH
2. Power REDUCE IF NECESSARY

LOSS OF OIL PRESSURE

Land as soon as possible.
Initiate Engine Failure During Flight Procedure.

LOSS OF FUEL PRESSURE

1. Fuel Selector SWITCH TO TANK WITH FUEL
2. Fuel Pump ON
3. Mixture ENRICH

If Pressure is not regained:

4. Fuel Pump OFF

Initiate Engine Power Loss During Flight Procedure

CARBUERETOR ICING

1. Carb Heat FULL ON
2. Throttle FULL OPEN
3. Mixture ADJUST FOR MAX SMOOTHNESS

When ice is cleared:

4. Carb Heat FULL OFF
5. Throttle NORMAL CRUISE SETTING
6. Mixture ADJUST FOR CRUISE

GYRO SUCTION FAILURE

1. RPM INCREASE TO 2400 RPM
2. Standby Vacuum ACTIVATE

If gyro suction is not regained:

3. Communication ADVISE CONTROLLER
4. Flight Instruments MONITOR ALL

PROPELLER OVERSPEED

1. Propeller Control AFT - DECREASE RPM
2. Throttle RETARD
3. Airspeed REDUCE
4. Throttle MAINTAIN BELOW 2400 RPM

HIGH OIL / CHT TEMPS
LOSS OIL / FUEL PRESS
CARBUERETOR ICING
SUCTION FAILURE
PROP OVERSPEED

OPEN DOOR IN FLIGHT

1. Airspeed ____ BELOW 90 KIAS
2. Cabin Vents ____ CLOSE
3. Opposite Window ____ OPEN
4. Slip Airplane ____ FACING DOOR INTO WIND
5. Latch ____ SECURE

If unable to close door, land as soon as practical

LANDING GEAR FAILURE
MANUAL GEAR EXTENSION

1. Master Switch ____ ON
2. Landing Gear Circuit Breakers ____ CHECK
3. Landing Gear Indicator Light ____ CHECK BULB

If gear fails to operate initiate manual gear extension

4. Airspeed ____ BELOW 100 KIAS
5. Landing Gear Switch ____ DOWN POSITION
6. Gear Extension Handle ____ EXTEND & PUMP
7. Landing Gear Indicator Light ____ CHECK
8. Gear Extension Handle ____ STOW

SPIN RECOVERY

INTENTIONAL SPINS ARE PROHIBITED

1. Throttle ____ IDLE
2. Ailerons ____ NEUTRAL
3. Rudder ____ FULL OPPOSITE OF DIRECTION OF ROTATION
4. Control Wheel ____ BRISKLY FORWARD FULL TRAVEL
5. Rudder ____ NEUTRAL WHEN ROTATION STOPS
6. Control Wheel ____ BACK PRESSURE TO RECOVER FROM DIVE

EMERGENCY DESCENT

1. Seat Belts and Harnesses ____ SECURE
2. Throttle ____ RETARD
3. Propeller ____ FULL FORWARD
4. Landing Gear ____ DOWN BELOW 140 KIAS
5. Airspeed ____ MAINTAIN BELOW 140KIAS
6. Bank Airplane ____ 40 TO 45 DEGREES

ICING

1. Pitot Heat ____ ON
2. TURN BACK AROUND or CHANGE ALTITUDE
3. Cabin Heat ____ ON
4. Throttle ____ FULL OPEN
5. Carb Heat ____ ON
6. Plan landing at nearest airport
7. Watch for higher stall speeds
8. Wing Flaps ____ 0 DEGREES
9. Approach Speed ____ 80 KIAS
10. Landing ____ NORMAL

OPEN DOOR

MANUAL GEAR EXT

SPIN RECOVERY

EMERGENCY DESCENT

ICING