

# Cessna 310R Checklist

## BEFORE STARTING ENGINE

Preflight – COMPLETE  
Passenger Brief-COMplete  
Cabin Door – SECURED  
Control Locks - REMOVE  
Seats/Seatbelts - CHECK  
Brakes - SET  
Fuel Selector - MAIN TANKS  
(Feel For Detent)  
Landing Gear Switch - DOWN  
Mixtures - FULL FORWARD  
Propellers FULL FORWARD  
Throttles - OPEN 1 INCH  
All Switches - OFF  
Circuit Breakers - IN  
Emerg. Alt. Field Switch -OFF  
Emerg. Avionics Switch -OFF  
Avionics Master - OFF  
Aux Fuel Pumps - OFF  
Battery - ON  
Lighting Rheostats - AS  
REQUIRED  
Landing Gear Position  
Indicator Lights - GREEN  
LIGHTS ON  
Warning Lights – TEST  
Cowl Flaps – OPEN/LOCKED  
Fuel Quantity - CHECK  
Cabin Air - AS REQUIRED  
Alternate Air Controls - IN  
Anti-Collision Lights – ON

## STARTING ENGINES

Propellers – CLEAR  
Magneto Switches - ON  
Engines - START  
Starter Button - PRESS  
Primer Switch  
Left Engine - LEFT  
Right Engine - RIGHT  
Auxiliary Fuel Pump - LOW  
Throttle - 800-1000 RPM  
Oil Pressure – CHECK

*(10 PSI minimum in 30 seconds in normal weather)*  
**OR**

*(60 seconds in cold weather)*  
**\*\*If no indication appears, shutdown engine and investigate**

Vacuum –“DOT” NOT Visible  
Second Engine – START  
Repeat checklist - 2<sup>nd</sup> engine

## BEFORE TAXIING

Alternators – ON  
Mixtures – LEAN FOR TAXI  
Avionics Master Switch - ON  
Avionics – SET  
Wing Flaps - UP  
Lights - AS REQUIRED  
Altimeter - SET  
Cabin Temp -AS REQUIRED

## TAXIING

Throttles - AS REQUIRED  
Brakes - CHECK  
Flight Instruments – CHECK

## BEFORE TAKEOFF

Brakes – HOLD  
Mixtures - RICH  
Throttles - 1700 RPM  
Alternators - CHECK  
Vacuum - CHECK 4.75- 5.25  
Magneto - CHECK  
150 RPM maximum drop  
max difference of 50 RPM  
Propellers - CYCLE  
Engine Inst. - GREEN  
Throttles - 1000 RPM  
Fuel Quantity - CHECK  
Fuel Selectors - RECHECK  
Left Eng - LEFT MAIN  
Right Eng - RIGHT MAIN  
Alternate Air Controls - IN  
Trim Tabs - TAKEOFF  
Cowl Flaps-LOCKED/OPEN  
Wing Flaps - UP  
Flight Instruments – SET  
Radios/transponder - SET  
Lights - AS REQUIRED  
Doors/Windows - CLOSED  
All Warning Lights - CLEAR  
Auxiliary Fuel Pumps - LOW  
Flight Controls - FREE &  
CORRECT  
Ice Protection Equip - AS  
REQUIRED  
Seat Belts - SECURE  
Brakes – RELEASE  
EMERGENCY BREIF

## TAKEOFF

Flaps – 0 – 15 DEGREES  
Mixtures – SET for field  
elevation  
Throttle – FULL 2700 RPM  
Engine Inst. – CHECK  
Vmc Speed - 72 KIAS  
Elevator Control - ROTATE  
83 KIAS  
Lift-off - 92 KIAS  
at 5500 pounds

## AFTER TAKEOFF

Brakes - APPLY momentarily  
Landing Gear – RETRACT  
Red light off – CHECK  
Flaps – UP  
(after obstacles are cleared)  
**Best Angle Climb - 85 KIAS**  
**Best Rate Climb - 107 KIAS**

## CRUISE CLIMB

Power - 2500 RPM and 24.5  
Airspeed - 115-130 KIAS  
Mixtures - ADJUST to climb  
fuel flow  
Cowl Flaps - AS REQUIRED  
Auxiliary Fuel Pumps - LOW  
(above 12,000 feet alt to  
minimize vapor formation)  
Heading Ind. - COMPASS

## CRUISE

Cruise Power 2100-2500 RPM  
15.0 – 24.5 in  
Mixtures – AS REQUIRED  
Cowl Flaps - AS REQUIRED  
Aux Fuel Pumps – SET  
- Main Tanks - OFF  
- Switching tanks - LOW  
- Auxiliary Tanks - OFF  
- Crossfeeding - LOW  
Trim Tabs – ADJUST

## DESCENT - LANDING

### ABC GUMPS

Alternate Air Controls - IN  
(Boost) Aux. Fuel Pumps - LOW  
Cowl Flaps – CLOSE  
(Gas) Fuel Select – MAIN  
TANKS  
(Feel for Detent)  
(Undercarriage) Gear - DOWN  
(below 138 KIAS)  
- Green Down lights - ON  
- Red Unlocked light - OFF  
Mixture – GRADUAL RICHEN  
Propellers - FULL FORWARD  
Seat Belts - SECURE  
Wing Flaps - DOWN 15  
(below 158KIAS)  
Wing Flaps - DOWN 35  
(below 135 KIAS)  
Min Approach - 93KIAS

## GO AROUND

Power – FULL & 2700 RPM  
Mixture - AS REQUIRED  
Landing Gear - RETRACT  
Wing Flaps - 15 degrees  
Trim - FOR CLIMB  
Cowl Flaps - OPEN  
Wing Flaps - UP  
(when clear of obstacles)

## AFTER LANDING - TAXI

Auxiliary Fuel Pumps - LOW  
Cowl Flaps - OPEN  
Wing Flaps – UP  
Mixture – LEAN FOR TAXI

## SHUT DOWN

Avionics Master - OFF  
Electrical Equipment - OFF  
Auxiliary Fuel Pumps - OFF  
Throttles - IDLE  
Mixtures - IDLE CUT-OFF  
Magneto - OFF  
Batt and Alternators – OFF  
HOBBS/TACH TIME  
Control Lock - INSTALL  
Cabin Door – CLOSE

Vr – 83  
Vx – 85  
Vxse – 95  
Vy – 107  
Vyse – 106  
Vso – 72  
Vs1 – 79  
Best Glide – 111  
Vmc – 80  
Vsse – 92  
Va – 148 – 5500lbs  
Va – 137 – 4700lbs  
Vle – 138  
X wind – 19

**\*\* All SPEEDS KIAS\*\***

# EMERGENCY Checklist - Cessna 310R

## ENGINE FAILURE IN FLIGHT

Zero Side Slip - ESTABLISH  
Mixtures - FULL  
Propellers - FORWARD  
Throttles - FULL  
Landing Gear - RETRACT  
Flaps - UP  
Inop Engine – DETERMINE  
(Verify by moving throttle)

## IF ALTITUDE/AIRSPEED PERMIT

Fuel Flow - CHECK  
If deficient, turn aux pumps to ON  
Fuel Selectors - MAIN TANKS  
(Feel for Detent)  
Fuel Quantity - CHECK  
Oil Press and Temp – CHECK  
(Shutdown engine if Oil Pressure is low)  
Magnetos - CHECK ON  
Mixture - ADJUST UNTIL FIRE

## IF NO RESTART

## SECURING INOP ENGINE

Throttle - CLOSE  
Mixture - IDLE CUT-OFF  
Propeller - FEATHER  
Fuel Selector - OFF  
Auxiliary Fuel Pump - OFF  
Magnetos Switches - OFF  
Alternator Switch - OFF  
Cowl Flap - CLOSE

## OPERATIVE ENGINE

Power - AS REQUIRED  
Mixture - AS REQUIRED  
Fuel Selector - AS REQUIRED  
Crossfeed as necessary to maintain balance  
Auxiliary Fuel Pump - ON  
Cowl Flap - AS REQUIRED  
Electrical Load - DECREASE  
**LAND AS SOON AS PRACTICAL**

## AIR START

## AFTER FEATHERING

Auxiliary Fuel Pump - CHECK OFF  
If On or LOW, purge engine  
Aux Fuel Pump - OFF  
Mixture - IDLE CUT-OFF  
Throttle - FULL OPEN  
Magnetos - OFF  
Starter – ENGAGE

Magneto Switches – ON  
Fuel Selector - MAIN TANK  
Throttle - FORWARD 1"  
Mixture - AS REQUIRED  
Propeller - FORWARD OF DETENT  
Starter Button - PRESS  
Primer Switch - ACTIVATE  
Auxiliary Fuel Pump - LOW  
Mixture - AS REQUIRED  
Power – INCREASE  
- **After** CHT reaches 200°F with gradual Mixture enrichment  
Cowl Flap - AS REQUIRED  
Alternator – ON  
Fuel Pumps – OFF

## FORCED LANDING (POWER LOSS)

Mixture - IDLE CUT-OFF  
Propellers – FEATHER  
Fuel Selectors – OFF  
All Switches Except Battery – OFF  
Approach - 111 KIAS  
*If Smooth and Hard Surface*  
Landing Gear – DOWN  
Wing Flaps - AS REQUIRED  
Battery Switch – OFF  
Cabin Door – UNLATCH  
Normal Landing – INITIATE  
*If Rough or Soft Surface*  
Landing Gear – UP  
Wing Flaps – 15  
Approach - 97 KIAS  
Battery Switch – OFF  
Cabin Door – UNLATCH  
Landing Attitude - NOSE HIGH

## EMERGENCY DESCENT

Cowl Flaps – CLOSED  
Throttles – IDLE  
Propellers - FULL FORWARD  
Mixture - ADJUST  
*smooth operation with gradual enrichment as altitude is lost*  
Wing Flaps – UP  
Landing Gear - UP  
Moderate Bank – INITIATE  
Airspeed - 220 KIAS

## ENGINE INOP LANDING

Fuel Selector - MAIN TANKS  
(Feel for detent)  
Aux Fuel Pump - ON  
(Operative Engine)  
Alternate Air – IN  
Mixture - AS REQUIRED  
Propeller - FULL FORWARD  
Approach - 106 KIAS  
Landing Gear - DOWN  
(within gliding range)  
Wing Flaps - DOWN  
(landing assured)  
Speed - DECREASE 93 KIAS  
Vmc Speed - 80 KIAS

## FORCED LANDING W/ POWER

Landing Site – CHECK  
*Overfly site at 100 KIAS and 15 wing flaps*  
Landing Gear - DOWN  
*if surface is smooth and hard*  
Normal Landing – INITIATE  
Landing Gear – UP  
*if surface is rough*  
Approach – 100 KIAS  
15 FLAPS  
All Switches Except Magnetos – OFF  
Cabin Door – UNLATCH  
Mixtures - IDLE CUT-OFF  
Magneto Switches – OFF  
Fuel Selectors - OFF  
(*Feel for detent*)  
Landing Attitude - NOSE HIGH

## LANDING FLAT NOSE TIRE

Landing Gear - DOWN  
Pax & Bags - MOVE AFT  
Approach - 100 KIAS  
15 FLAPS  
Landing Attitude - NOSE HIGH  
Nose - HOLD OFF  
*During landing roll*  
Brakes - MINIMUM  
*in landing roll*  
Throttles - RETARD  
*in landing roll*  
Control Wheel - FULL AFT  
Minimum taxiing to prevent damage

## LANDING WITH MAIN TIRE

Landing Gear - DOWN  
Fuel Selectors – SELECT  
main tank on same side as defective tire  
Fuel Selectors - MAIN TANKS  
*before landing*  
Wing Flaps - DOWN 35  
*In Approach align airplane with edge of runway opposite the defective tire, allowing room for a mild turn in the landing roll.*

# PREFLIGHT Checklist - Cessna 310R

## PREFLIGHT INSPECTION

### INTERIOR

Control Lock - REMOVE  
Alternate Static - CLOSED  
All Switches - OFF  
Circuit Breakers - IN  
Emergency Exit - SECURE  
Landing Gear Switch - DOWN  
L Fuel Selector - LEFT MAIN  
R Fuel Selector - R MAIN  
(Feel for Detent)  
Trim Tabs - (3) NEUTRAL  
Battery Switch - ON  
Flaps - DOWN 35  
Fuel - CHECK QUANTITY  
(Ensure Pitot Tube Cover is  
Removed)  
Pitot Heat - ON 20sec, OFF  
Exterior Lights - CHECK  
Tip Tank Transfer Pump -  
LISTEN R&L  
Stall Vane - FREE/AUDIBLE  
Battery Switch - OFF  
Windshield - CHECK

### EXTERIOR

Baggage Door - CHECK  
Static Port - CLEAR  
R Fuselage - CHECK  
Control Lock - REMOVE  
Tail Tie Down - REMOVE  
Horizontal Stabilizer CHECK  
Vertical Stabilizer - CHECK  
Elevator - CHECK  
Elevator Trim Tab - CHECK  
Rudder - CHECK/FREE  
Antennas - CHECK  
L Fuselage - CHECK  
Static Port - CLEAR  
L Flap - CHECK SECURITY  
Battery Cover - SECURE  
Wing Locker  
Baggage Door - SECURE  
L Aileron - CHECK/FREE  
L Bottom Outboard Wing -  
CHECK  
(No Fuel Leaks or Stains)  
Main Tank Vent - CLEAR  
Main Tank Sump - DRAIN  
Sniffle Valve - CLEAR  
Main Tank Quantity -CHECK  
Fuel Cap - SECURE  
Tie Down/Chock - REMOVE  
Aux Tank Quantity - CHECK  
Auxiliary Fuel Cap - SECURE  
Aux Fuel Sump - DRAIN  
Fuel Strainer - DRAIN  
Oil Level - CHECK  
(Min 9 qts)  
Engine Compartment-CHECK  
Prop and Spinner - EXAMINE  
Leading Edge Air Intake -  
CLEAR

Left Main Gear  
Strut - CHECK  
Doors - CHECK  
Tire - CHECK  
Wheel Well - CHECK  
Brake/line - CHECK  
Nose Baggage Door -SECURE  
Nose Gear  
Strut - CHECK  
Doors - CHECK  
Tire - CHECK  
Wheel Well - CHECK  
Lower Fuselage - CHECK  
Antennas - SECURE  
Pitot Tube - CLEAR/WARM  
Chock - REMOVE  
Heater Inlet - CLEAR  
Leading Edge Air Intake -  
CLEAR  
Crossfeed Lines - DRAIN  
Right Main Gear  
Strut - CHECK  
Doors - CHECK  
Tire - CHECK  
Wheel Well - CHECK  
Brake/line - CHECK  
Oil Level - CHECK  
(Min 9 qts)  
Engine Compartment-CHECK  
Prop and Spinner - EXAMINE  
Fuel Strainer - DRAIN  
Aux Fuel Sump - DRAIN  
Aux Fuel Quantity - CHECK  
Aux Fuel Cap - SECURE  
Tie Down/Chock - REMOVE  
Main Tank Quantity - CHECK  
Fuel Cap - SECURE  
Sniffle Valve - CLEAR  
Main Tank Sump - DRAIN  
Main Tank Vent - CLEAR &  
WARM  
R Bottom Outboard Wing -  
CHECK  
(No Fuel Leaks or Stains)  
R Aileron - CHECK/FREE  
R Flap - CHECK SECURITY  
Wing Locker  
Baggage Door - SECURE  
Alcohol Deice Tank - CHECK

### PREFLIGHT COMPLETE