

FLIGHT CHECK -- CHECKLIST

Cessna 310C/D/F

18-0-1951 5/13/77-39229-EDD0011 310(115)



PREFLIGHT (INSIDE COCKPIT)

W&B/Performance/AROW	Complete
Control Locks	REMOVED
Master	ON
Fuel Gauges	Check
Flaps	Extend
Landing Gear/Lights	Down / Check
Master/Mags	OFF

EXTERNAL

Locks/Chains/Chocks	Remove
Fuel Sumps	Drain
Fuel Tanks/Quantity	Inspect/ Secure
Rivets/Skin/Doors	Check
Flaps/Ailerons/Rudder	Check
Tires/Brakes/Struts	Inspect
Tire Pressure	Nose: 30PSI Main: 40PSI
Oil	12 Qts.
Prop	Check
Landing / Nav Lights	Inspect
Pitot / Static / Stall	Inspect

ENGINE START / TAXI

Brakes	SET
Seats / Seat Belts	Check
Landing Gear Handle	DOWN
BATTERY / Generators	ON
Circuit Breakers	Check
Landing Gear Lights	Check
Left Fuel Selector	LEFT MAIN
Right Fuel Selector	RIGHT MAIN
ALL Trim	Set for T/O
Avionics	OFF
Mags	ON
Throttles	Open 1/2" inch
Mixtures / Props	Full Forward
Aux. Fuel Pumps	"PRIME" Position
Prop Area	Clear
Fuel PRIME	2 - 2.5 PSI
Engine Starter	ENGAGE
Fuel Pumps (After Start)	OFF
Oil Pressure	CHECK
START RIGHT ENGINE THE SAME AS LEFT	
Flaps	UP
Radios / Avionics	ON
ATIS/AWOS/ASOS/Taxi	Obtain
Brakes / Instruments	Check

V-Speed

Vr	76	(87)	Vs	73	(84)
Vy	103	(119)	Vs0	64	(74)
Vyse	96	(111)	Vsse	82	(95)
Vx	84	(94)	Va	142	(164)
Vxse	82	(95)	Vne	215	(248)
Vlo	122	(140)	Vmc	71	(82)
Vfe	0-15	140	Vno	182	
V-speeds are listed in KIAS and (MPH)					
Vfe	15-45	122			

BEFORE TAKEOFF

Brakes	Set
Throttles	1700 RPM
VAC/Oil Temp/Press	Check
Generators / Cycle	Check
Mags 125/50	Check
Induction Air Heat	Check / OFF
Props (To 1200 RPM)	Feather Check
Props	Cycle/Full Forward
Power	Idle / Check
Aux Fuel Pumps	ON
Induction Air	COLD
Mixtures	DA & Elev. Set
Flaps / Trim	Set for T/O
Flight Controls	Free and Correct
Doors / Windows	Check/ LOCK
Flight Instruments	Check
COM / NAV's	Set
Engine Instruments	Check
Clearance	Obtain
Brakes	Release

NORMAL TAKEOFF

Vr	76 KIAS (87)
Vy	103 KIAS (119)

SHORT FIELD TAKEOFF

Runway	To End / Brakes
Power	FULL
Vr	71 KIAS (82)
Vx	84 KIAS (97)
Vy	103 KIAS (119)

LDG LT MAX 139

CLIMB

Power	24" / 2450 RPM
Gear (Brakes ✓) / Flaps UP / Positive Climb	
Enroute Climb	115-120 KIAS (131-138)

CRUISE

Power	Set
Mixtures	Adjust with Table
Instruments / Trims	Reset as Needed

WINDOW OPEN MAX 113

CRUISE PROFILE

	PALT	PWR	RPM	MAN	KTAS	GPH
5000	76%	2450	23.5"	190	28.1	
5000	65%	2300	23.0"	179	24.8	
5000	55%	2200	21.0"	164	20.6	
7500	70%	2450	22.0"	189	26.6	
7500	65%	2300	22.0"	181	24.2	
7500	55%	2200	21.0	169	21.1	

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Cessna 310C/D/F

1939, 1961 5/83577, 79229, 31010001, 31010156

FOR PILOTS, BY PILOTS

Emergencies

APPROACH / LANDING

ATIS / AWOS / ASOS	Obtain
Brief / Seat Belts	Check
Mixtures	Set
Props	FULL
Fuel Pumps	ON
Fuel Selectors	MAINS
Induction Air	COLD
Flaps (APPRCH 15°)	140 KIAS (160)
Gear Down (Vlo)	122 KIAS (140)
Flaps Extend	122 KIAS (140)
Approach Speed (Vref)	83 KIAS (96)
Landing	70-78 KIAS (80-90)
Single Engine Approach	91 KIAS (105)
Single Engine Landing	83 KIAS (96)
GUMPS	Check

GO AROUND (TWIN ENGINE)

Throttles	FULL
Flaps to 15° / Gear	Retract
Trim	103 KIAS (119)
Flaps	Up

MANUAL GEAR EXTENSION

Circuit Breaker	OUT
Landing Gear	OFF (middle)
Hand Crank	Extend / LOCK
Crank Handle	Clockwise
Gear Indicator Light	Green

AFTER LANDING

Flaps	Retract
Mixture	Adjust
Fuel Pump	OFF
TXPNDR / Strobes	OFF

SECURE

Avionics / All Switches	OFF
Mixture	OFF
Mags / BATs / GENs	OFF
Checks/Chains/Papers	Complete

CLOSE FLIGHT PLAN

LOST COM

Check: Freq., Volume, Squelch, Phones	
Transponder	7600
Pattern	Enter / Light Sigs.

Light Signals

	GROUND	FLIGHT
Green (Steady)	Cleared For Takeoff	Cleared To Land
Green (Flashing)	Cleared to Taxi	Return for Landing
Red (Steady)	STOP	Give Way to Others
Red (Flashing)	Taxi Clear of Runway	Airport UNSAFE
White (Flashing)	Return to Starting Point	N/A
Alt. Red/Green	CAUTION	CAUTION

ENGINE FAILURES

WITH ALT ABOVE 83 KIAS (95)

Throttles / Props	Full Forward
Gear	Up
IDENTIFY VERIFY FEATHER	
Climb	82 KIAS (95)
Bank	3-5° to good engine
Accelerate / Flaps Up	96 KIAS (111)
Dead Engine	Secure
Mixture (Good Eng.)	Full Rich

TROUBLESHOOT (WITH ALTITUDE)

Fuel Selectors/Pumps	Switch / ON
Oil Temp / Pressure	Check
Induction Air	Try
Mags / Starter	On & Cycle

UNFEATHERING

Fuel Selector Valve	ON
Throttle Advance	Gear horn silence
Prop	Advance
Mags / Mixture	ON / FULL RICH
Starter	ENGAGE (many revs)
Fuel Pump	Prime / Engage
Starter (@2-2.5 PSI)	Engage
Power (CRT above 200°)	Increase as needed

ENGINE FIRE DURING FLIGHT

Fuel / Mixture	OFF
MASTER Switch	OFF
Vents / Windows	OPEN if smoke ent

ELECTRICAL FIRE DURING FLIGHT

Fuel / Mixture	OFF
Circuit Breakers	Check which is out
Fire	Extinguish

EMERGENCY DESCENT

Throttle	CLOSE
Carb Heat	ON
Gear Down Below	122 KIAS (140)
Airspeed to ext.	122 KIAS (140)
Landing Site	Acquire

GENERATOR TROUBLESHOOT

Load	Decrease
Generators	Cycle
Circuit Breakers	Check
If no improvement	Generator OFF

⚠ Landing gear lights will not be visible after complete electrical failure

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