



## IFR DEPARTURE BRIEFING

- [W] WEATHER**
  - Good enough to get back on departure
- [A] ABNORMAL**
  - Prepared to abort on take-off
- [R] RUNWAY**
  - Which one, how long, surface condition
- [T] TERRAIN**
  - Hills, water, best direction
- [S] SPECIAL NOTES**
  - Fine print, missed procedure

**IFR APPROACH BRIEFING**

- [A] ATIS**
- [M] MARKER BEACONS**
  - Turn on and test if ILS
- [I] IDENTIFY**
  - Set radio & navaid freqs and identify
- [C] COURSE**
  - Set final or next appr. course
- [E] ENTRY TYPE**
  - Full or straight-in? Reversal or procedure turn? Vectors?
- [A] ALTITUDES**
  - Current, FAF, DA / MDA
- [T] TIME**
  - FAF to MAP
- [M] MISSED APPROACH**
  - Briefed

PREFLIGHT – CABIN	
Pitot cover .....	remove
Papers (A.R.O.W.) .....	valid
Control lock .....	remove
Ignition switch .....	off, keys on dash
Avionics master & elec. ....	off
Circuit breakers .....	in
Master switch .....	on
Gyros .....	no unusual noise
Fuel gauges .....	note level
Flaps .....	lower in stages
Avionics master switch .....	on
<b>Navigation instruments ( IFR ) :</b>	
- Marker beacons .....	test hi / low
- VOR .....	test
- GPS .....	database valid / self test OK
- Transponder .....	test, set ALT + 1200
Radios .....	copy ATIS
Avionics master switch .....	off
Pitot .....	verify cover off
Pitot heat .....	on, test, off
Lights (beacon, strobe, nav) .....	all working
Master switch .....	off
ADHRS .....	mount, secure battery
EFB (inc. phone) .....	mount, secure battery,
	connect ADHRS, reset level,
	update weather from Internet
	display taxi diagram
Windshield .....	clean
PREFLIGHT – NOSE	

PREFLIGHT — EMPENNAGE	
Fuselage.....	no structural damage
Elevator .....	hinges, links & counterweights
Rudder .....	hinges, links & counterweights
Antennae .....	no damage
Tie down .....	remove
PREFLIGHT — RIGHT WING	
Fuel drain .....	check fuel, paper napkin test
Flaps .....	hinge, pushrod & movement
Aileron .....	hinge, pushrod & counterweight
Wingtip .....	lights, rivet line & shake wing
Tie down .....	remove
Tire .....	inspect for wear & inflation
Brakes .....	inspect for leaks & pad wear
Fuel tank .....	check quantity & secure cap
PREFLIGHT — NOSE RIGHT	
Oil level .....	no less than 6 quarts
Fuel strainer .....	check fuel quality
Airplane .....	free to roll & no bald-spots
Overall .....	<b>FINAL WALK-AROUND,</b> no openings, no forgotten objects
BEFORE STARTING ENGINE	
Preflight inspection .....	<b>COMPLETE</b>
Seat & seat belts .....	secure
Fuel selector .....	both
Avionics master switch .....	off
Circuit breakers .....	in
Brakes .....	test and set
STARTING ENGINE	

MAXIMUM GLIDE			
RANGE in NM @ 65 KIAS, FLAPS UP			
AGL	Zero Wind	20 kt. Headwind	40 kt. Headwind
10,000	15	11	6.4
9000	13.5	9.9	5.8
8000	12	8.8	5.1
7000	10.5	7.7	4.5
6000	9	6.6	3.9
5000	7.5	5.5	3.2
4000	6	4.4	2.6
3000	4.5	3.3	1.9
2000	3	2.2	1.3
1000	1.5	1.1	0.6

## OTHER EMERGENCY

**EXCESSIVE RATE OF CHARGE:** turn both sides of master switch OFF, then ON. If light comes on again, terminate flight.

**INSUFFICIENT RATE OF CHARGE:** Nonessential electric OFF. Terminate flight.

**RADIO OUT:** Check circuit breakers & VOLUME. Recycle alternator switch. If in B, C, or D airspace, squawk 7600. Terminate flight.

TWR SIGNALS	ON GROUND	IN FLIGHT
Steady Green	Cleared To Takeoff	Cleared To Land
Flashing Green	Cleared To Taxi	Return For Landing
Steady Red	STOP	Yield & Continue Circling
Flashing Red	Taxi Clear of Landing Area	Airport Unsafe — Do Not Land
Flashing White	Return To Starting Point	—
Alternating Red & Green	Use Extreme Caution	Use Extreme Caution

## PREFLIGHT — NOSE

Spinner.....	check for security, no cracks
Propeller.....	check for nicks, max. 1/8"
Cooling air intake.....	free of restrictions
Carburetor air filter .....	free of restrictions
Muffler .....	check for security
Landing light(s) .....	check condition & clean
Nose wheel strut.....	inspect & check inflation
Tire.....	check wear & inflation
Static source opening.....	check for stoppage

PREFLIGHT — LEFT WING	
Fuel tank .....	check quantity & secure cap
Tire .....	inspect for wear & inflation
Brakes .....	inspect for leaks & pad wear
Pitot tube.....	check intakes (2) clear
Fuel vent.....	clear
Tie down .....	remove
Wingtip .....	check lights, rivet line & shake
Aileron.....	check hinges, pushrod, counterweights & movement
Flaps.....	check pushrod & movement
Fuel drain .....	check fuel quality