



What you will learn:

How to safely and efficiently maneuver the airplane on the ground, taking into account:

- surface condition
- wind speed and direction
- wingtip and propeller clearance
- other traffic, people and objects
- aerodrome markings and layout.

Why learn all this: isn't it just like driving?

Planes are designed for flying, not driving \rightarrow many things need to be considered and adjusted for to ensure safe ground handling

Careless taxiing could lead to:

- excessive wear and tear on the aircraft
- loss of control
- propeller and engine damage
- injury and damage to people and property on the ground

PROCEDURES & CONSIDERATIONS

Speed Control

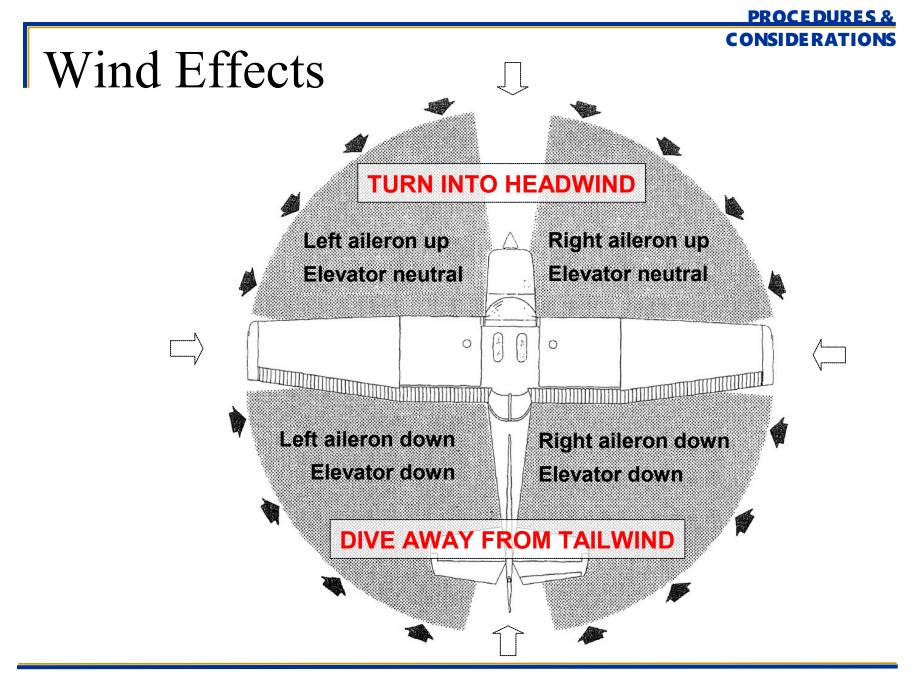
- Test brakes as you start to taxi
- ✓ Taxi at the speed of a fast walk
- ✓ Adjust your speed primarily using the throttle, not brakes
- Before using brakes, reduce power to idle
- ✓ Return power to ~1000 rpm after plane has stopped.

Directional Control

Normal turns are made by stepping on left or right pedal

 Tighter turns can be made by stepping on the pedal and applying a brake on the same side (differential braking)

 Speed control is especially important in a turn – planes can swerve and tip!



PROCEDURES & CONSIDERATIONS

Instrument Check – Left Turn



PROCEDURES & CONSIDERATIONS

Instrument Check – Right Turn



Parking

- Don't try to taxi the plane into a tight space between obstructions
- ✓ Good practice, especially in high winds, to use
 - control lock
 - wheel chocks

Aerodrome Layout



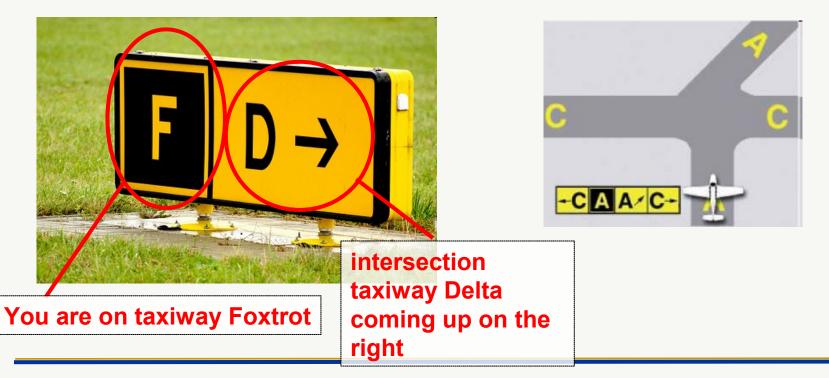
Apron

Area intended to accommodate:

- loading and unloading of cargo and passengers
- fueling
- servicing and maintenance
- parking.
- Multiple aprons usually denoted by Roman numerals (I, II, III etc.)

Taxiways

- Strips connecting runways and aprons, hangars, and other facilities
- Usually denoted by letters (A, B, C etc.)
- Center line may be marked by continuous yellow line



Runways

- Strips intended for aircraft take-off and landing
- Denoted by their magnetic direction, rounded off to the nearest 10° and last zero removed (Runway 27)
- So every runway actually has two "names"... Why?



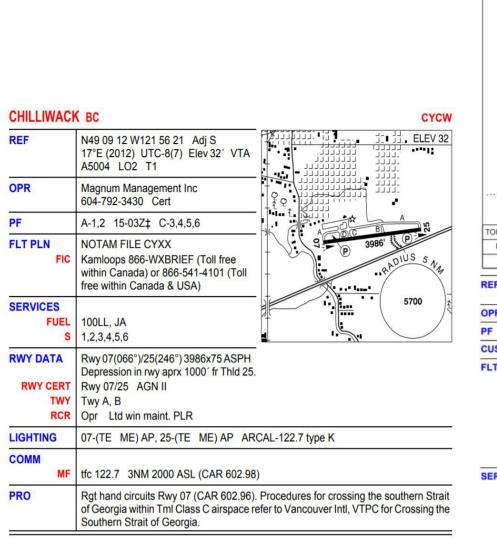
CANADA FLIGHT SUPPLEMENT / GPH 205 Effective 0901Z 30 January 2020 to 0901Z 26 March 2020

BRITISH COLUMBIA

AERODROME/FACILITY DIRECTORY

ABBOTSFORD BC

CYXX



Comparison

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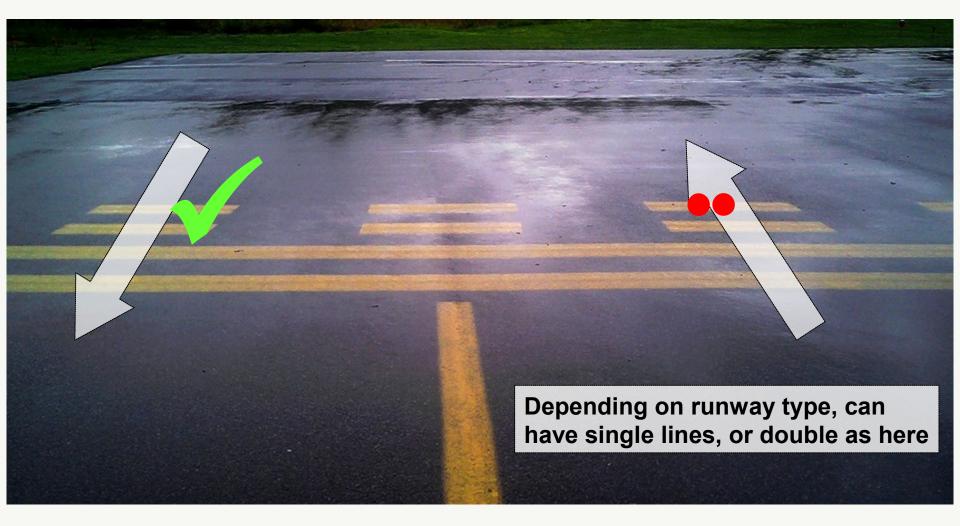
THEORIES & DEFINITIONS

Runway & Taxiway Markings



THEORIES & DEFINITIONS

"Hold Short" Line



Communication Procedures

Controlled Airport - General

- 1. Listen to ATIS (Automatic Terminal Information Service) and record ATIS name, weather and other info
- 2. Make initial contact with Ground Control



- 3. Inform controller- position and intention, request taxi. No control? Broadcast on mandatory frequency.
- 4. Acknowledge instructions. MUST read back any "hold short" instruction, good idea to read back any instruction concerning crossing or entering runways

Communication Procedures:

Controlled airport – Entering and crossing runways

- You must never enter or cross a runway without an explicit permission to do so ("Taxi Alpha, cross runway 15")
- If no permission was given, you must hold short at the hold short line (or 200' from the edge of runway if no hold short line) and request crossing or entering it as appropriate
- When permission is granted, check for taking-off/landing traffic before proceeding.

Communication Procedures:

Uncontrolled airport/aerodrome

- Use published Mandatory Frequency (MF) or Aerodrome Traffic Frequency (ATF) to communicate with ground specialist and/or other traffic
- Always check for taking-off/landing traffic before entering or crossing a runway.

Review

- ENGINE START
 - evaluate starting position
 - give verbal warning ("CLEAR!")
- SPEED CONTROL
 - taxi at fast walking speed
 - avoid brakes overuse
- DIRECTIONAL CONTROL
 - differential braking = tighter turns
 - slow down to turn
- ✓ WIND
 - "turn into headwind, dive away from tailwind"
- ✓ COMMUNICATION WITH ATC
 - use standard sequence and terminology for radio calls
 - read back all "hold short" instructions
 - never cross/enter runway without explicit permission

Conclusion

 Every flight you do will start and end with taxiing: now you know how to do it like a pro