

# RADIO & AIR LAW PART I

ALTITUDE, AIRSPEED AND BRAINS. YOU NEED ONLY TWO OF THEM TO STAY ALIVE



- Restricted Radiotelephone Operator's Certificate
- Issued by Industry Canada
- Valid for life
- Must demonstrate a minimum of 70% on exam to obtain certificate



#### NUMBERS, TIME, MONEY, ALTITUDE, HEADING

- Time: the 24 hour coordinated time (Zulu) system is used:
  - midnight = 00:00 hrs
  - 2:30 PM Local = 14:30 hrs Local
- Money: say "dollars" at the beginning of the figure
  - 45.32\$ = "dollars-four-five-decimal-three-two"
  - Sometimes different in different countries
- Altitude: Given in thousands and hundreds of feet
  - 1000' = thousand
  - 2500' = two 'thousand' fife hundred
- Heading: expressed in 3 figures (degrees MAGNETIC)
  - 060 = Heading zero six zero



- 1 Distress Call
- 2 Urgency Call
- 3 Flight Safety Communications
- 4 Weather Information Communications
- 5 Schedule broadcasts
- 6 All other communications





- Only use last 3 letters of the glider's registration after initial contact
- Parts of a message:
- 1) Call-up: "St-Jean Tower, this is glider Foxtrot Delta Whiskey Bravo"
- 2) Reply: "Glider Delta Whiskey Bravo, St-Jean Tower"
- 3) **Message**: "St-Jean Tower, glider Delta Whiskey Bravo on left downwind for grass 29"
- 4) **Tower Reply**: "Delta Whiskey Bravo, St-Jean Tower. Winds at 320 at 10 kts; cleared to land grass 29"
- 5) Acknowledgement: "Delta Whiskey Bravo"

#### **TYPES OF EMERGENCY CALLS**

- 1) Distress Call: "MAYDAY, MAYDAY, MAYDAY" (mayday x 3)
- 2) Urgency Call: "PAN PAN, PAN PAN, PAN PAN" (pan x 6)
- 3) Call: "SECURITE, SECURITE, SECURITE (securite x 3)





- Transmitted on the current air-ground frequency first
- Then, 121.5MHz (international distress frequency)
- For a distress call you must follow this format:
  - Mayday (3 times)
  - "This is"
  - Call sign (3 times)
  - Distress Message







- A radio check should not last more than 10 seconds
- Example: "Glider DWB, this is glider ACQ for radio check, over."

"Glider ACQ, read you 5/5."

"5/5, you as well thank you."

Readability scale:

Loudness vs clarity

When replying to a radio check, the following readability scale should be used:

- 1. Bad (unreadable)
- 2. Poor (readable now and then)
- 3. Fair (readable but with difficulty)
- 4. Good (readable)
- 5. Excellent (perfectly readable)



**%** 

- Who issues radio licences?
- Read the following: "67.21\$"
- What is the urgency signal?
- The readability scale is \_\_\_\_\_ vs \_\_\_\_?

#### **REGULATIONS AND MANUALS**

- Canadian Aviation Regulation (CAR)
- Aeronautical Information Manual (A.I.M. Canada)
  - Updated twice a year, includes CAR + other aeronautical information
- Canada Flight Supplement (CFS)









# **DOCUMENTS REQUIRED TO FLY**

- $A \rightarrow$  Certificate of <u>Airworthiness</u>
- $R \rightarrow$
- $\bullet$  0  $\rightarrow$
- W  $\rightarrow$
- $\cdot$  J  $\rightarrow$
- $\cdot$  I  $\rightarrow$
- L $\rightarrow$
- I  $\rightarrow$





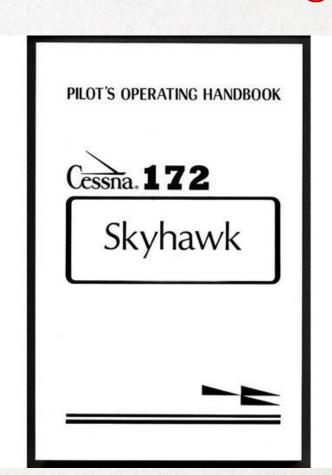
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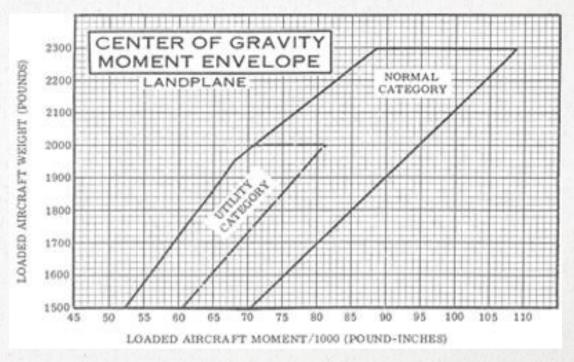
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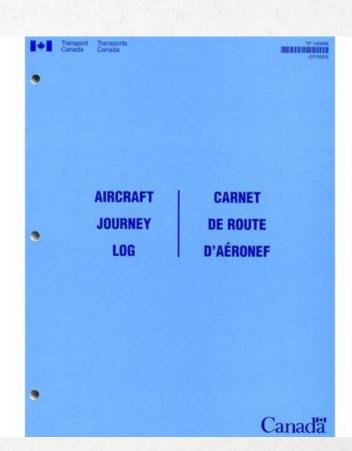
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- $L \rightarrow$



AOPA Insurance Agency, Inc. P.O. Box 9170 Wichita, KS 67277 (800) 622-AOPA (2672) KS (316) 942-2223 Fax (316) 942-0091

> AIRCRAFT CERTIFICATE OF INSURANCE Date: 01/25/2011

This certificate is issued to

City of Riverside 6951 Flight Rd Riverside, CA 92504 Descriptive Schedule

Named Insured and Address:

Richard D Roth & Cynthia G Roth PO BOX 708 RIVERSIDE, CA 92502-0708

Company Chartis Aerospace Insurance Services, Inc.

Policy Number **Effective Date** 01/27/2011 **Expiration Date** 01/27/2012

Aircraft Covered N8661M 1964 BEECH P35

LIMITS OF LIABILITY

Single Limit Bodily Injury &

\$1,000,000 Property Damage Liability Including Passenger Sub-Limit each passenger \$100,000

Aircraft Physical Damage Agreed Value: \$60,000

Full Ground & Flight

Deductible \$100 Deductible Not In Motion \$100

The entity shown above is included under Aircraft Liability Coverage as an Additional Insured but only to the extent of liability arising out of the Named Insured's ownership, maintenance or use of the Covered Aircraft. If the company cancels, the company will send 30 day prior written notice to the above. The company shall not be held liable for failure to give such notice



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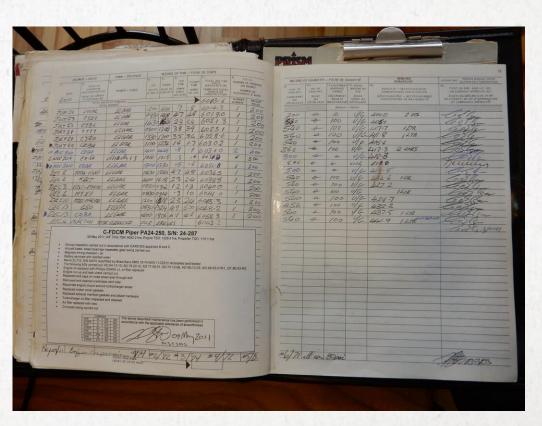
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- I → Intercept Orders

# SCHEDULE II VISUAL SIGNALS FOR USE IN THE EVENT OF INTERCEPTION Signals Initiated by Intercepting Aircraft and Response by Intercepted Aircraft

Series	Intercepting Aircraft Signal	Meaning	Intercepted Aircraft Response	Meaning
1.	DAY—Rocking wings from a position in front and, normally, to the left of the intercepted aircraft, and after acknowledgement, a slow level turn, normally to the left, on to the desired heading.	You have been intercepted. Follow me.	AEROPLANES: DAY—Rocking wings and following.	Understood; will comply.
	NIGHT—Same, and in addition, flashing navigational lights at irregular intervals.		NIGHT—Same, and in addition, flashing navigational lights at irregular intervals.  HELICOPTERS: DAY or NIGHT—Rocking aircraft, flashing navigational lights at irregular intervals, and following.	
	DAY or NIGHT— Meteorological conditions or terrain may require the intercepting aircraft to take up a position in front and to the right of the intercepted aircraft, and to make the subsequent turn to the right.			
	If the intercepted aircraft is not able to keep pace with the intercepting aircraft, the latter is expected to fly a series of racetrack patterns and to rock its wings each time it passes the intercepted aircraft.		incegular incervals, and rollowing.	
	DAY or NIGHT—Flares dispensed in immediate vicinity.		Same as above.	



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- **0** → Pilot **O**perating Handbook
- $W \rightarrow \underline{W}$ eight and Balance
- J → Journey Log
- $I \rightarrow \underline{I}$ nsurance
- $L \rightarrow \underline{L}$ icenses
- I → <u>I</u>ntercept Orders



\*Technical Log



# **CONFIRMATION - TOO**

- Which document is the only document from AROWJILI that you only SOMETIMES have to carry on board and why?
- What does the "R" stand for in AROWJILI

#### **PILOT'S LICENSE**

- Unless you have a pilot's license you can not act as the pilot-incommand (PIC) or co-pilot
  - valid for the particular class and type of aircraft as stated in license

#### Student Permit

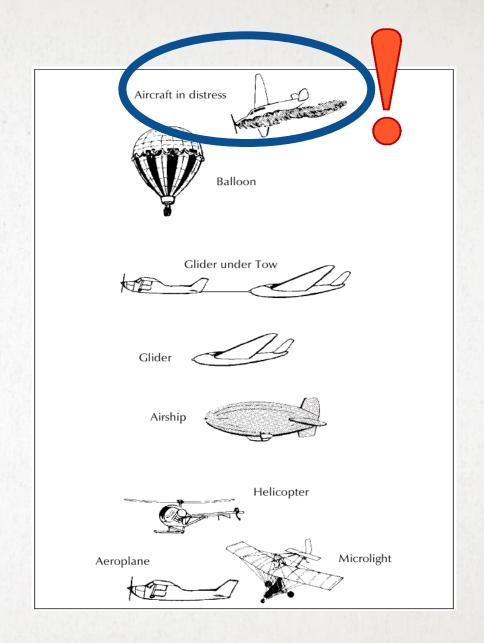
May fly an aircraft as long as it is under supervision of a pilot

Time period	Requirement	
6 months – carry passengers	5 take offs and landings	
2 years	Completed a recurrent training program	
	(ie: transport Canada seminar, completed a license or rating)	
5 years	Flown as PIC or co-pilot	

# RIGHT - OF - WAY

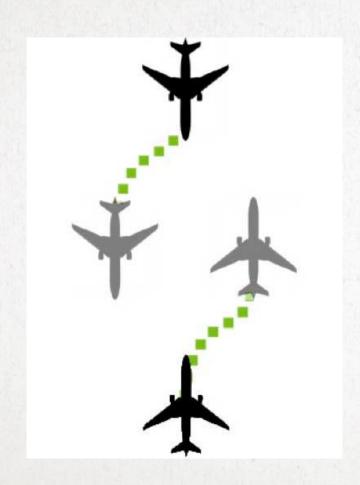
- 1. Fixed or free balloons
- 2. Gliders
- 3. Airships
- 4. Power-driven fixed wing or rotary wing airplanes

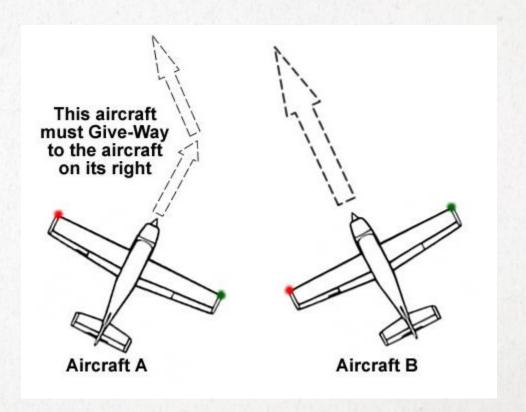
\*ALL AIRCRAFT WILL GIVE WAY
TO ANY AIRCRAFT IN
DISTRESS\*



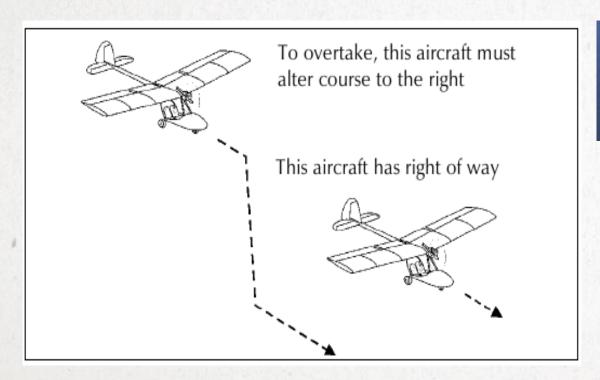


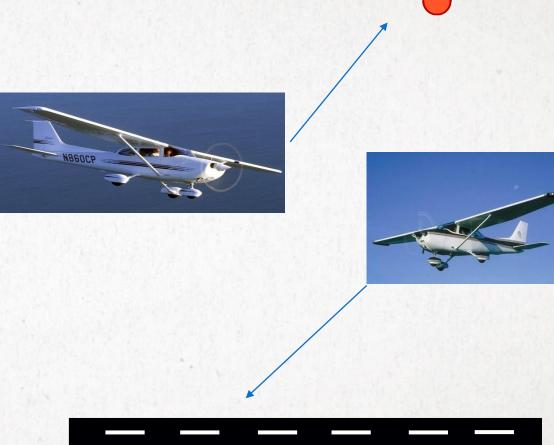






# **RULES OF THE AIR - 2**







### **CONFIRMATION - TREE**

- If I haven't flown in 25 months, what must I do to fly again?
- You complete a right turn in a glider and suddenly you are right in front of an airship.
   What do you do?