



VICTORIA FLYING CLUB

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- Bookings, Questions



Review

- How do we establish a nose-up/down **attitude**?
- What external **references** change how?
- Which **instruments** change how?
- How do we maintain **heading** in **straight** flight?
- How do we maintain **altitude** in **level** flight?



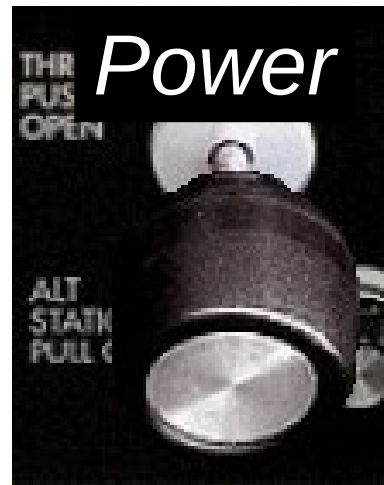
Part I – Basic Climbing and Descending

- Attitude, Power, Trim (APT)
- Basic Climbs and Leveling Off
- Power, Attitude, Trim (PAT)
- Basic Power-off Descents and Leveling Off
- Instruments



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Establishing a Basic Climb



- In cruise-attitude **lookout** ahead and above
- Establish **nose-up attitude**
- Apply **full power** maintaining **nose-up attitude**
- Keep straight and control **yaw** with **rudder**
- **Trim** and continue to monitor **airspeed** and **altitude**



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Maintaining a Basic Climb



- Adjust **attitude** to attain desired **climb airspeed**
- Re-**trim** after complete attitude adjustment



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Leveling Off from a Basic Climb

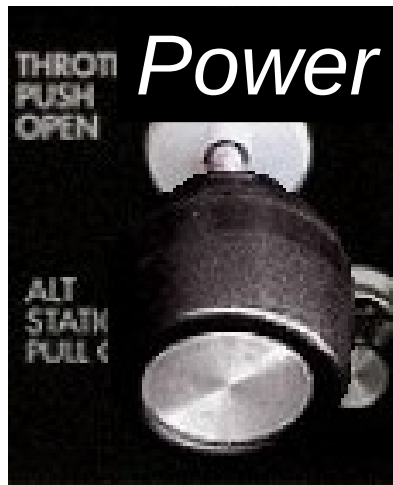


- Establish **cruise attitude** at desired target altitude
- Accelerate to **cruise airspeed**
- Reduce **power** maintaining **cruise attitude**
- Keep straight and control **yaw** with **rudder**
- **Trim** and continue to monitor **airspeed** and **altitude**



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Establishing a Basic Descent



- In cruise attitude **lookout** ahead and below
- Reduce **power** to **idle**
- Keep straight and control **yaw** with **rudder**
- Decelerate to **descent airspeed** maintaining attitude
- Establish **nose-down attitude** and **trim**



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Maintaining a Basic Descent



- Adjust **attitude** to attain desired **descent airspeed**
- Re-**trim** after complete attitude adjustment



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Estimating the Glide Path

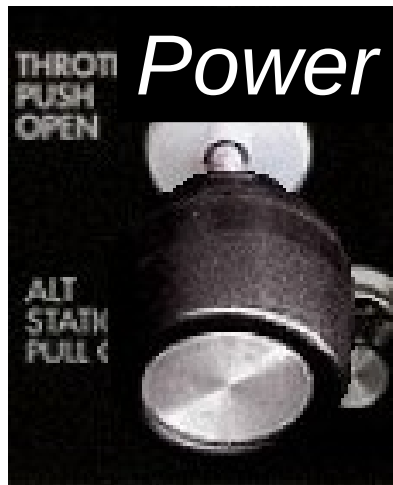


- References that **move up** cannot be overflown
- References that **move down** can be overflown
- References that **remain steady** are on glide path



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Leveling Off from a Basic Descent



- In nose-down attitude **lookout** ahead and above
- Increase **power** to **cruise power** setting
- Establish **cruise attitude** and accelerate to **cruise airspeed**
- Keep straight and control **yaw** with **rudder**
- **Trim** and continue to monitor **airspeed** and **altitude**



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Instruments



- **Airspeed** is the main reference instrument
- Monitor **airspeed**, **vertical speed** and **altitude**



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Summary / Quiz

- Mentally perform a **basic climb** and **level off** and state all required actions.
- Mentally perform a **basic power-off descent** and **level off** and state all required actions.



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Pre-Flight Briefing