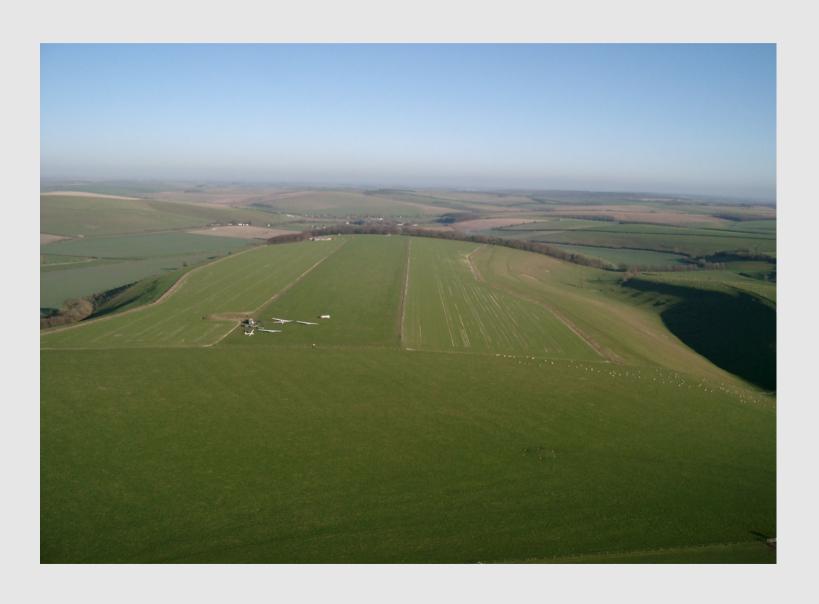
Trial Flights— Aerotow Airfield looking to the east



Airfield looking to the North West



Format of flying

- Pre flight briefing
- Demonstration of an exercise in the air
- You attempt and practice the exercise
- Instructor helps or advises then moves on to next exercise
- Post flight debrief

- 1. Lookout
- 2. Effect of controls
- o Elevator
- o Ailerons
- o Rudder

Lookout

Keeping a good lookout for other aircraft is essential and you will be shown the best way to do this.

Effect of controls

Elevator

The elevator is moved by the stick and this controls the pitch of the glider. When you move the stick forward the nose goes down, more ground is in view and you gain speed. Moving the stick back has the opposite effect. The glider is stable in pitch and will try and revert to the original speed.

Effect of controls

Ailerons

The ailerons, on the wing, are also moved by the stick and they roll the glider. After making sure it is clear to turn, when you move the stick (say) to the left, the glider will roll to the left until you move the stick back to the centre. The glider is banked and so turns, but you need to bring the stick back a little to keep the speed constant. The best guide to what is happening is to monitor the roll and pitch by looking over the nose.

Effect of controls

Rudder

The rudder is moved by the pedals. When you press on (say) the left pedal, the nose will yaw to the left but the glider does not turn. The rudder is used to keep the glider pointing in the direction you are travelling and more advanced exercises will show you how to use it in conjunction with other controls to achieve this.

On subsequent flights you can learn the following:

Rudder & adverse yaw - why we need to use the rudder in conjunction with the ailerons

Turning using all three controls - aileron, elevator and rudder

Trimmer - to make speed control easier

Using thermals if available

Circuit and landing demonstrations

Flights

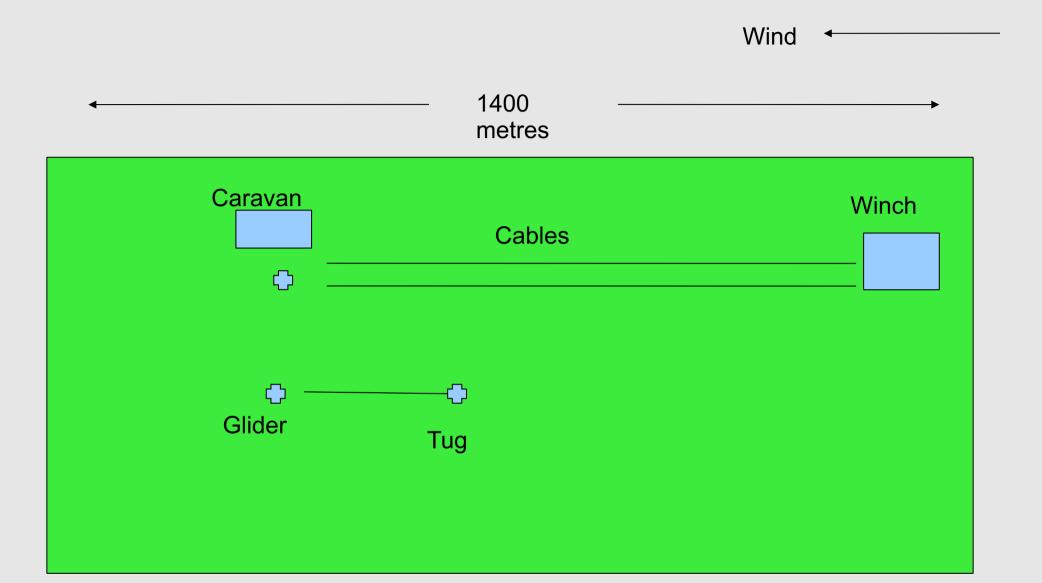
- Aerotow from 2000ft: If it is not soarable is about 15 minutes. If we can soar, flights will be up to 30 minutes
- Aerotow from 3000ft: If it is not soarable is about 20 minutes. If we can soar, flights will be up to 30 minutes
- Aerotow from Mile High: If it is not soarable is about 30 minutes. If we can soar, flights will be up to 60 minutes

Objective

- To give you a pleasant flight. Discuss with your instructor what you would like to achieve from your flight
- For you to fly the glider as much as possible
- If you do not wish to handle the controls the instructor will demonstrate to you how the glider is flown and you can enjoy the views
- To enjoy the flight

Aerotow Operation

- Launches alongside winch launch queue
- Connected by a rope to the tug
- Launchpoint controller signals to the tug by radio to control the launch
- Glider flies in formation with the tug up to the release height



Not to scale

Safety on the field

- Cables on the ground run from the winch to the launchpoint and drop from the glider after the launch
- Propellers tug and motorglider avoid.
- Aircraft landing you will not hear them so lookout in all directions
- Tug rope trails behind and below the tug on approach to land
- Keep a good lookout
- If in doubt ask someone

Glider retrieve

You will be retrieved off the field by a buggy and the glider is towed back to the launchpoint. The safest way is to walk back with the instructor.

Refreshment

Teas coffee and chocolate bars in caravan

Ground handling

- Push only on leading edges of wings and nose
- Never push on trailing edges
- Pull glider with canopy open
- Careful of canopy fragile and expensive
- Held by one wing only my wing/your wing
- Gliders are vulnerable to strong winds on the ground and need to be parked correctly

Parachutes

- Worn for all flights
- Remove after getting out of the glider on the ground
- In real use jettison canopy undo harness exit aircraft – pull ripcord

Air speed indicator



Altimeter





Variometer – shows rate of climb or descent

Two types

- Mechanical
- Electrical with audio output



Flarm anti collision indicator. Gives audible and visual warnings of threats

Jargon

- You have control / I have control. The instructor will explain. It's so you know who is flying the glider.
- Attitude. This is the term for the amount of ground in view between the nose of the glider and the horizon and is your best guide to control the glider
- My wing / your wing. The instructor will explain. We hold one wing only on the ground and this is to communicate who is to hold the wing

After the flight

- Your instructor will discuss with you the flight and answer any questions you may have
- You will be given a 30 day temporary full membership card which allows you to come back and fly at normal full member rates
- We hope that this flight will have shown you how easy it is to fly a glider and how you perhaps could take to learning to fly

Trial Lessons Enjoy the flight!

