INTERNATIONAL SPORT KITE COMPULSORIES BOOK

Version 1.1

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Change History:

Version 1.0 – August 1, 2002

1. Original

Version 1.1 – September 11, 2002

1. Added Multi-line Team figures and change history

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I. WIND WINDOW AND PRECISION GRID DEFINITIONS

A. Wind Window

Is the area within the roughly semicircular plane described by the greatest height a kite can reach at every angle in front of a stationary flier. The size of the window is limited by the ground, the length of the flying line, the speed of the wind, the skill of the flier, and the flight characteristics of the kite or kites.

B. Center Window

The center of the wind window is directly down wind from the flier (horizontal center) and half way to the top of the wind window at that location (vertical center).

C. Precision Grid

The backdrop for each figure is a grid that is used as a reference for its correct size, shape, and location. The figures are drawn on a grid 100 units high and 200 units wide; 100 units on either side of the horizontal center of the window. The size of a grid unit varies with the length of the flying line used. With 38 meter (125 foot) lines, a grid unit is about 0.3 meters (1 foot). Each 10 unit square on the grid with 38 meter (125 foot) lines would have roughly 3 meter (10 foot) sides. Grid lines at 10 unit intervals are shown in the diagrams, but only where they are necessary to locate the figure within the grid.

NB: In sub-optimal conditions, it may not be possible to fly to all sections of the precision grid unless the flier moves back during the figure. Said another way, some of the precision grid may be outside the wind window.

II. DIAGRAM

The compulsory figure diagram defines the size, shape, and location of each compulsory figure within the precision grid.

When there are fewer team members flying than there are kites shown in a diagram, the selection of kites will be one of -

- In numerical order. Which means assign the kites flying to the kites in the diagram in 1-2-3 order.
- Evenly spaced and centered between the first and last kite. Which means, using the positions of the first and last kites, evenly space the other kite or kites between them.

When there are more team members flying than there are kites shown in a diagram, the kites will be evenly spaced and centered. That means, using the center of all of the kites as shown in the diagram, arrange all the team's kites evenly around that center point.

The evenly spaced options are the default. When the numerical order is important, it will be specified in the explanation.

III. CRITICAL COMPONENTS AND EXPLANATION

A. Critical Components

Each compulsory figure has two components that are weighted heavily by the judges in their scoring. For international competitions, these components are each worth 30% of the score for the compulsory. The weighting is intended to focus the attention of the pilots and judges on some aspects of the compulsory figure and encourage that component to be flown exactly as depicted. A critical component is only part of the overall compulsory figure and therefore, even if poorly executed, does not necessarily result in a zero score for the entire compulsory figure.

B. Explanation

If necessary, an explanation or clarification of the critical components will be provided. Additional remarks or comments about the compulsory and a list of additional components the compulsory is meant to test may also be provided. This section is not meant to describe the compulsory figure in detail.

C. Shorthand Notation Used in Descriptions

- as a prefix to a number, denotes a location to the left of the horizontal center of the precision grid.
- > as a prefix to a number, denotes a location to the right of the horizontal center of the precision grid.
- <0> denotes the horizontal center of the precision grid.
- as a prefix to a number, denotes a location above the bottom of the precision grid.

IV. GLOSSARY OF TERMS

A. Position within the precision grid

Position within the precision grid refers to the location of the the entire compulsory in the precision grid. Although, all figures are intended to be flown as shown in the diagrams, the placement is sometimes a critical components to discourage moving the figure in the window or changing its size.

B. Relative placement of components

Relative placement refers to alignment of the components within a figure. For example, two squares may be shown drawn side by side with their tops on the same horizontal line or one directly above the other. Symmetry may be an aspect of the relative placement of components. As a critical component, relative placement makes the location of the components more important than other aspects.

C. Turns

All turns are crisp changes of the flight direction. An adjective may be used with turn to emphasize some aspect of the turn. If a change of direction is not intended to be a turn it will be described as an arc or curve.

D. Lines

All lines are straight unless otherwise noted. Straight line, while redundant, may be used for emphasis.

1. Horizontal line

A horizontal line is flown parallel to the horizon.

2. Vertical line

A vertical line is flown perpendicular to the horizon.

3. Parallel lines

Are an equal distance apart everywhere.

The qualifiers (horizontal, parallel, etc.) are used in the critical component or explanation sections to limit the focus to a particular line or lines.

E. Launching

A launch is the transition of a kite from a stationary position on the ground into flight. The control of the kite during the launch and the stability of the flight after the launch are of the most important aspects of a launch.

F. Landing

A landing brings the kite to a controlled stop on the ground. A nose first crash into the ground *is not* a landing. Unless otherwise indicated, no variety of landing is preferred over another.

1. Leading-edge landing

A leading edge landing brings the kite to a controlled stop on the ground with all of one of the leading edges meeting the ground along it full length.

2. 2-point landing

For delta-shaped kites, a two point landing brings the kite to a controlled stop on the ground resting on both wing tips at the same time. For kites with a single leading edge, a 2-point landing is brings the kite to a stop on the trailing edge.

a) Examples

(1) Snap 2-point landing

Is a combination of a snap stall and landing that happens as one movement.

(2) Stall 2-point landing

The kite is stalled close to the ground and then put down onto the ground directly.

(3) Spin 2-point landing

The kite is spun in a tight circle or part of a circle close to the ground and then put down onto the ground directly.

3. Belly landing

A belly landing brings the kite to a controlled stop on its front (bridle side) with the nose pointing away from the pilot.

G. Arc

The change of the direction of flight that follows some part of the circumference of a circle. Distinguished from a curve which does not have a constant radius.

H. Ground pass

A ground pass is horizontal flight close to the ground. For the purposes of the critical components and explanations herein, the maximum height of the lower wing tip off the ground is defined as 1/2 the distance between the wing tips. Flying closer to the ground is not rewarded or penalized.

When the ground is not horizontal, the height of a ground pass is measured from the highest point traversed.

I. Nose

Is the forward most part of the kite in forward flight. For delta shaped kites, it is the junction of the leading edges. For kites with a single leading edge, it is that leading edge. The coordinate positions shown in the diagrams are given for the nose of the kite unless otherwise indicated.

J. Stall (Stop)

The kite comes to an obvious momentary stop.

1. Push stall

A push stall stops the movement of the kite without changing the kites orientation.

2. Snap stall

A snap stall stops the movement of the kite and brings the kite into a nose-up orientation in one motion.

K. Axel

An axel is a 360° flat spin rotation of the kite with the front parallel to the ground. It starts and ends with the nose pointing toward the flier.

L. Speed Control

For individual figures, speed control means maintaining a constant speed throughout the figure.

For pair and team figures, speed control also refers to the relative change of velocity among the kites needed to open or close distances between them as demanded by some figures. Speed control is a consideration in all compulsory figures.

M. Spacing

For pair and team figures, spacing refers to the uniform distance maintained between kites. A change to the distance between kites may be necessary during a figure, but it is the uniformity of spacing that is important.

Spacing is a consideration in all pair and team compulsory figures.

N. Multi-line Diagonal Flight

The kite flies in a straight diagonal line with the kite in a constant orientation.

O. Multi-line Inverted Flight

The kite flies in any direction with the nose pointed down.

P. Multi-line Backward Flight

The kite flies in the opposite direction from the direction the nose is pointing. Backward flight is also inverted flight if the nose is pointing down.

Q. Multi-line Rotation (Spin)

The kite rotates with a designated part of the kite as the center of rotation. The most common points of rotation are the center of the kite or one of its wing tips. Unless otherwise specified, rotations are stationary. That is; the point of rotation does not move.

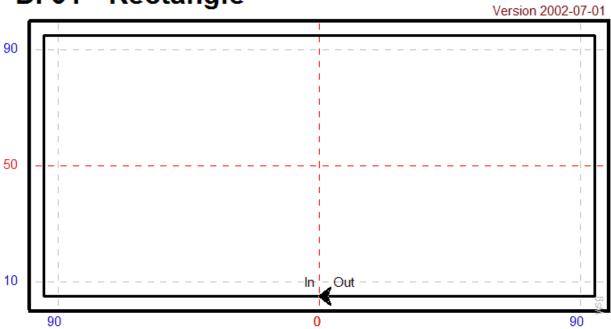
R. Multi-line Slide

The kite moves horizontally across the window with the nose pointing up (horizontal slide) or vertically in the window with the nose pointing to the left or right (vertical slide).

S. Multi-line Inverted Slide

The kite moves horizontally across the window with the nose pointing down.





Critical Components

Position within the precision grid Straight lines

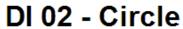
Explanation

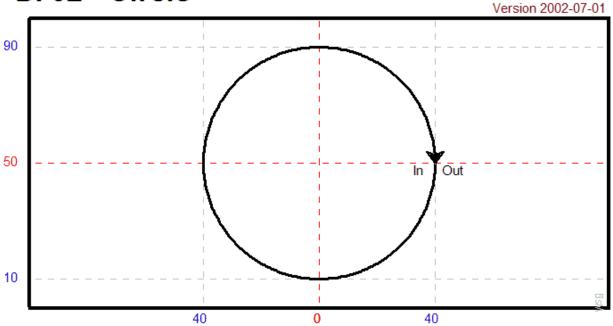
Other components:

Speed control

Parallel lines

Right angles



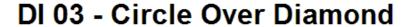


Critical Components

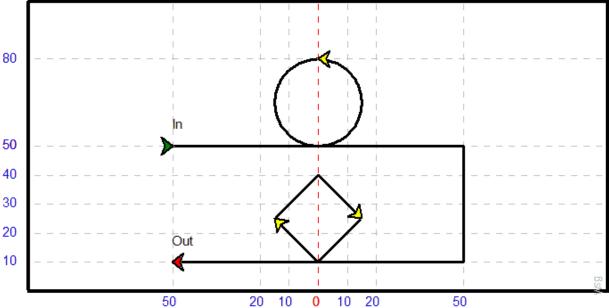
Circle Speed control

Explanation

Other components:
Position within the precision grid IN/OUT at same location







Critical Components

Placement of components Size of components

Explanation

The circle is directly above the diamond.

The diameter of the circle is the same as the width and height of the diamond.

Other components:

Parallel lines

Right angles

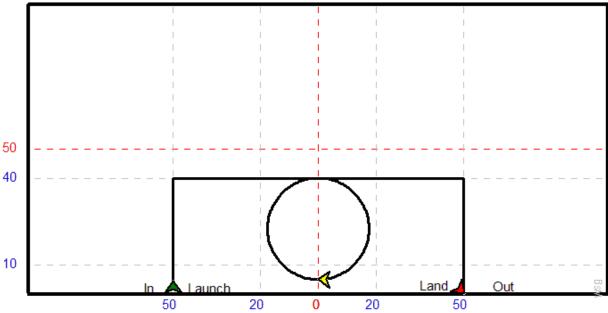
Position within the precision grid

Speed control

Other angles







Critical Components

Straight vertical lines
Position within the precision grid

Explanation

No particular landing technique is specified. However, the closer the landing maneuver is to the ground when it begins the better.

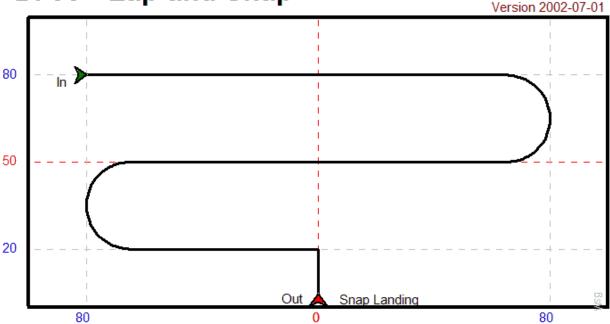
Other components:

Right angles

Speed control

Circle





Critical Components

Parallel lines

Two-point landing

Explanation

The landing is quick and executed close to the ground.

The downward arc on the left side of the window is directly under the IN.

The landing is in the center of the figure and the precision grid.

Other components:

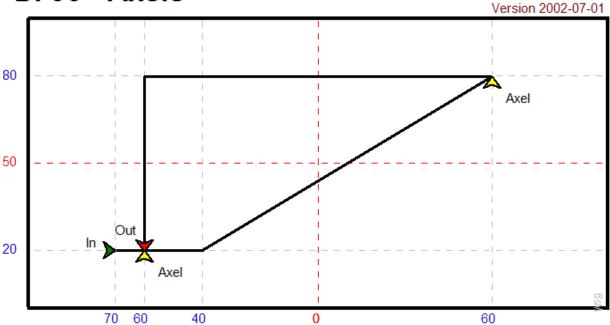
Arcs

Right angles

Relative placement of components

Relative size of components





Critical Components

Axels Straight lines

Explanation

The rotational direction of the axels is not specified.

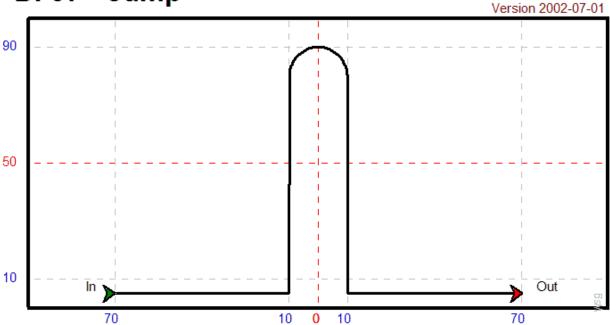
Other components:

Relative placement of components

Sharp angle

Position within the precision grid





Critical Components

Right angles Arc

Explanation

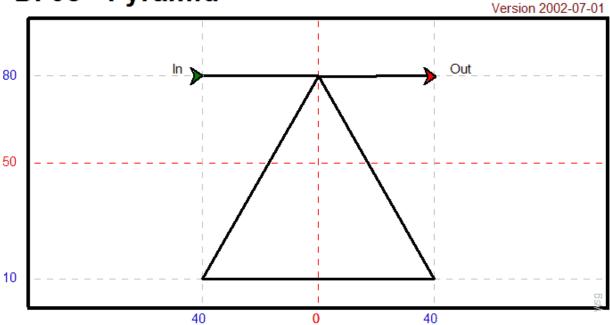
Other components:

Danger

Straight lines
Position within the precision grid

Speed control





Critical Components

Position within the precision grid Relative size of components

Explanation

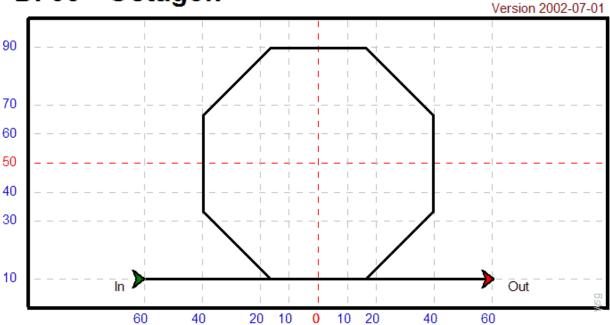
The base angles are equal Other components:

Equal size of IN and OUT horizontal lines.

Straight lines

Speed control





Critical Components

Position within the precision grid Relative size of components

Explanation

All angles of the octagon are equal.

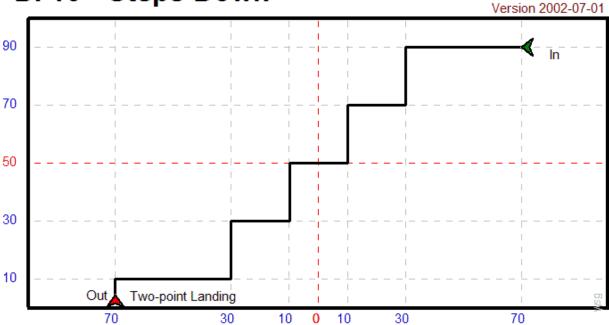
Other components:

Speed control

Equal size of IN and OUT horizontal lines

Parallel lines





Critical Components

Relative size of components Right angles

Explanation

The last turn down is followed by a two-point landing.

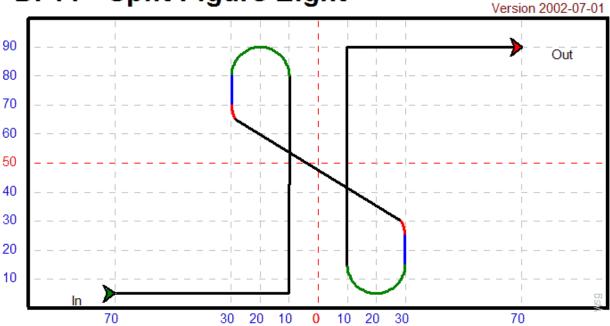
Other components:

Two-point landing

Position within the precision grid

Speed control



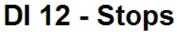


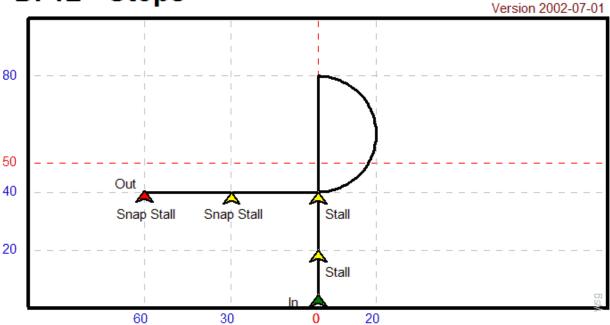
Critical Components

Relative placement of components Speed control

Explanation

Other components:
Position within the precision grid
Straight lines
Arcs





Critical Components

Stall

Speed control

Explanation

Other components:

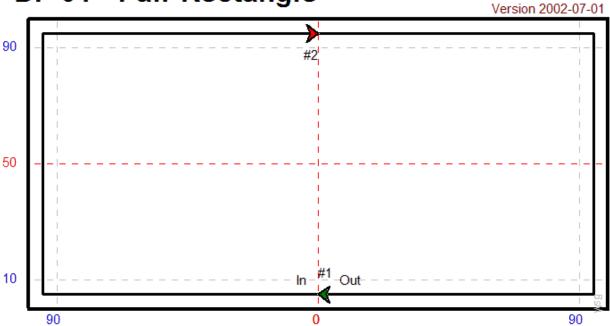
Launch

Relative placement of components

Straight lines

Position within the precision grid





Critical Components

Position within the precision grid Straight lines

Explanation

Other components:

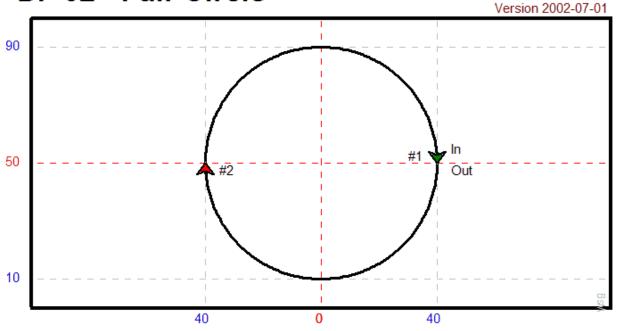
Spacing

Speed control

Parallel lines

Right angles

DP 02 - Pair Circle



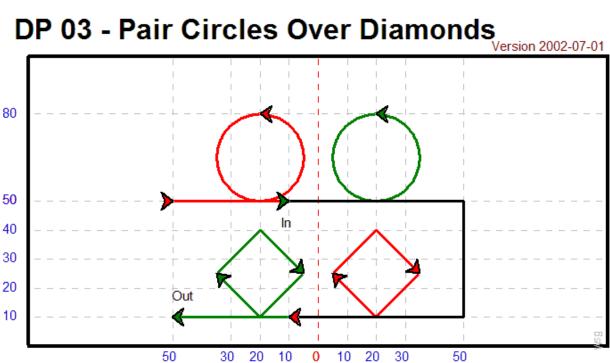
Critical Components

Circle Speed control

Explanation

Other components:
Position within the precision grid
IN/OUT at same location





Critical Components

Placement of components Size of components

Explanation

The circles are directly above the diamonds.

The diameter of the circles are the same as the width and height of the diamonds.

Other components:

Parallel lines

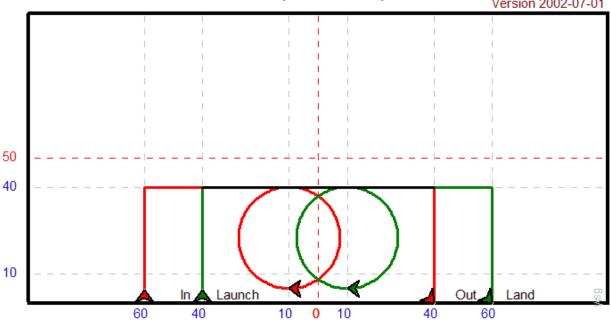
Right angles

Position within the precision grid

Speed control

Other angles





Critical Components

Straight vertical lines
Position within the precision grid

Explanation

No particular landing technique is specified. However, the closer the landing maneuver is to the ground when it begins the better.

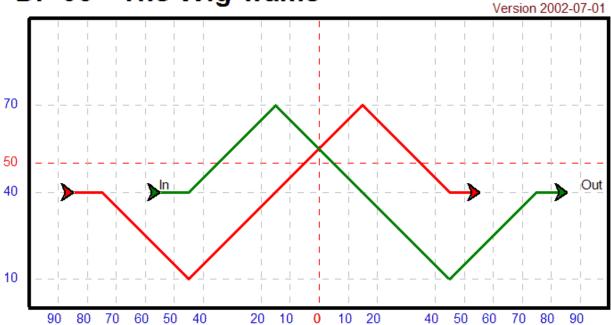
Other components:

Right angles

Speed control

Circle



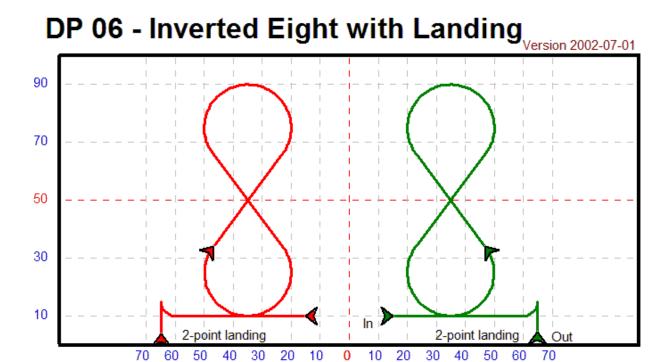


Critical Components

Parallel lines Speed control

Explanation

Other components: Spacing Timing

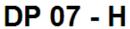


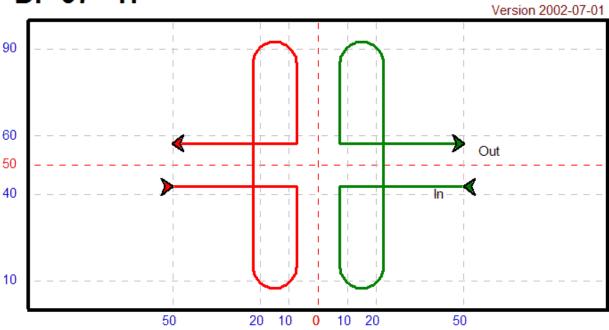
Critical Components

Relative position of components Landing

Explanation

Two-point landing
Other components:
Position within the precision grid
Parallel lines
Straight lines





Critical Components

Parallel lines Relative placement of components

Explanation

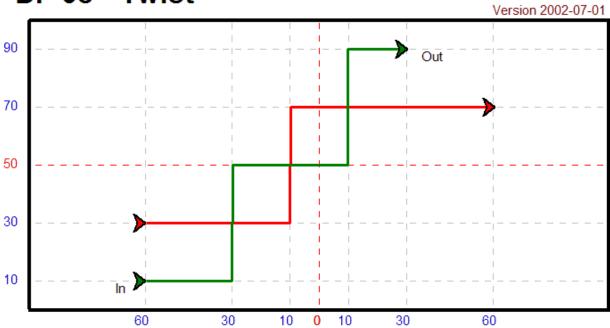
Other components:

Spacing

Position within the precision grid

Arcs





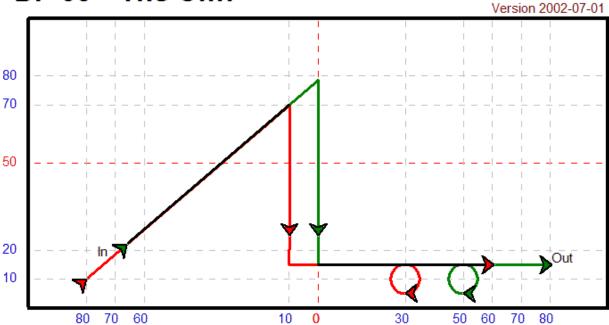
Critical Components

Timing Parallel lines

Explanation

Other components: Speed control Right angles





Critical Components

Speed control Spacing

Explanation

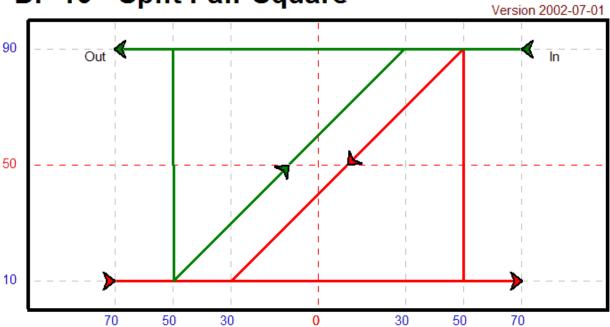
Other components:

Timing Circles

Straight lines

Other angles





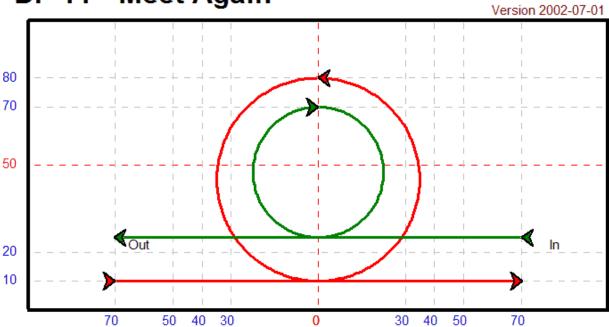
Critical Components

Parallel lines
Position within the precision grid

Explanation

Other components:
Other angles
Timing
Spacing





Critical Components

Circles Speed control

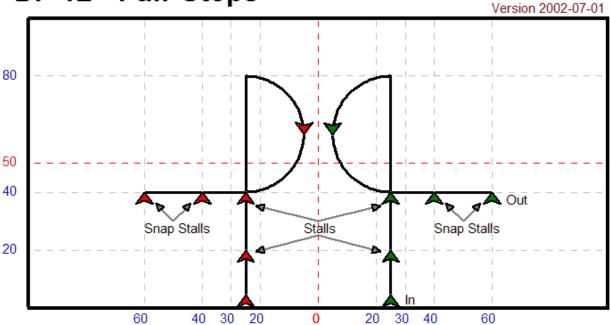
Explanation

Other components:

Timing

Relative placement of components





Critical Components

Stall

Speed control

Explanation

Other components:

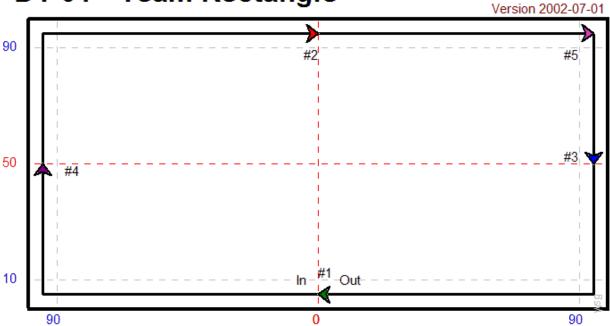
Launch

Relative placement of components

Straight lines

Position within the precision grid





Critical Components

Position within the precision grid Straight lines

Explanation

A 6th kite would start and end at <95 ^5, and so on.

Other components:

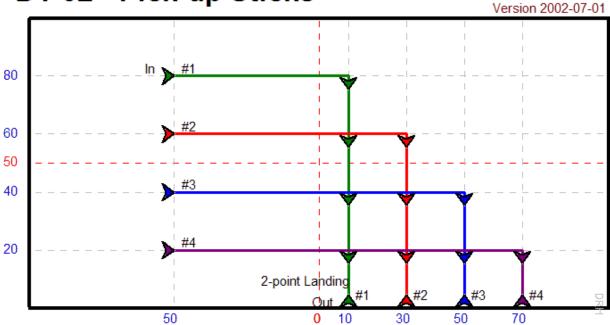
Spacing

Speed control

Parallel lines

Right angles

DT 02 - Pick-up Sticks



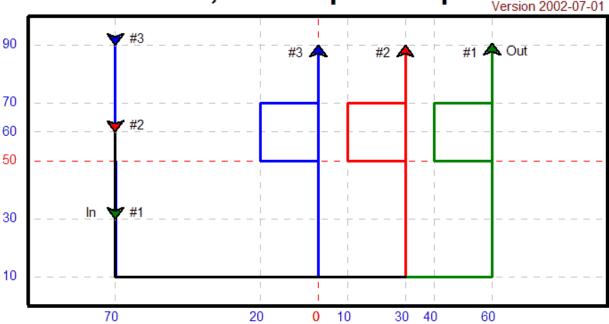
Critical Components

Relative placement of components Speed control

Explanation

Other components Straight lines Landing





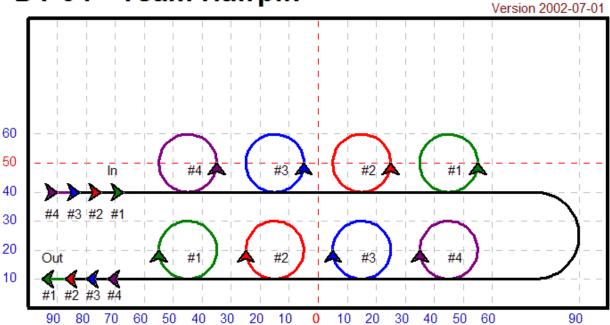
Critical Components

Parallel lines Right angles

Explanation

Other components:
Relative placement of components
Timing





Critical Components

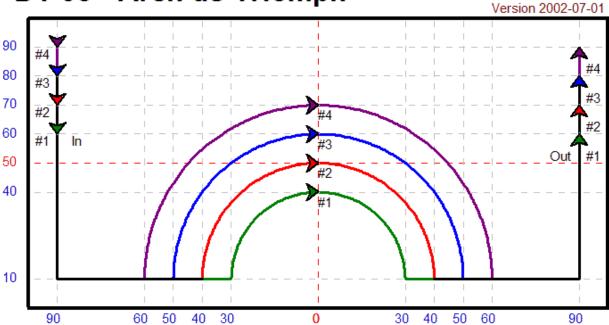
Circles Spacing

Explanation

Other components:

Position within the precision grid Relative placement of components





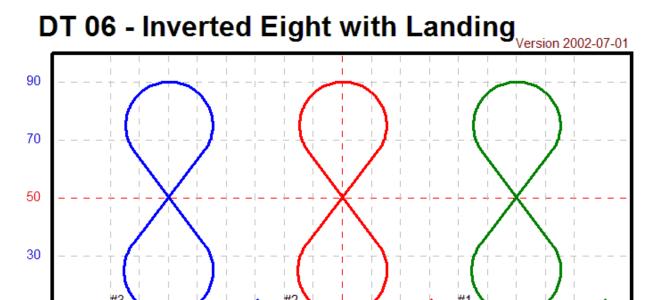
Critical Components

Speed control Arcs

Explanation

Other components:

Relative placement of components Position within the precision grid Timing



20

30

40

50

60

Out

80

Critical Components

Landing Relative placement of components

60

50

40

30

20

10

0

10

Explanation

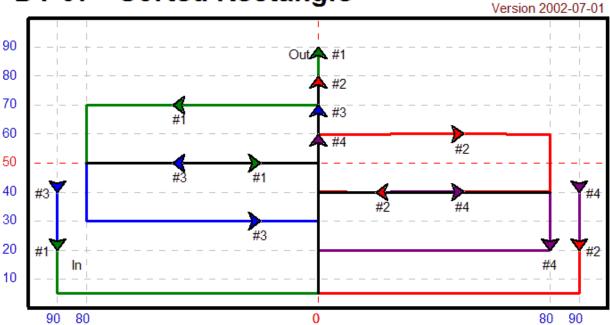
Other components:

Arcs

10

Straight lines Parallel lines





Critical Components

Timing

Relative placement of components

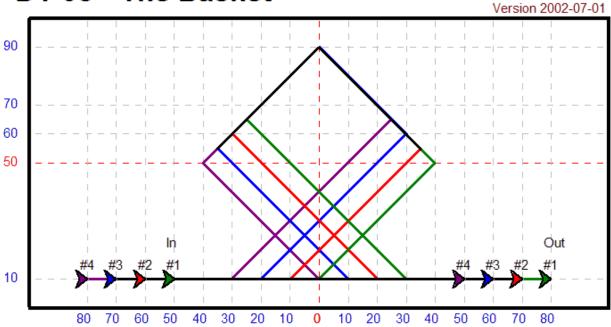
Explanation

Kites come down from the outside of the window and turn toward the center into a ground pass. A zipper-merge is performed as the kites turn to go up the center of the window. Kites alternate going left and right into rectangles that meet back at center window. Other components:

Ground pass

Parallel lines

DT 08 - The Basket



Critical Components

Speed control Spacing

Explanation

Kites come abreast in the middle of the diagonal descent.

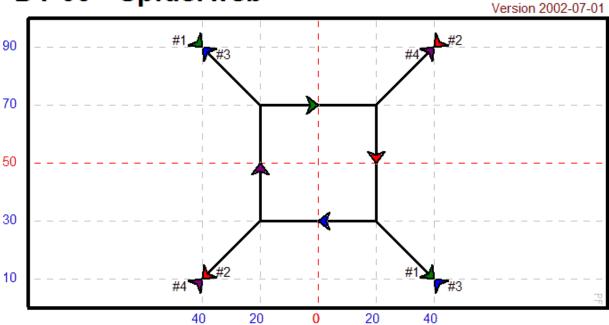
Other components:

Timing

Right angles

Parallel lines





Critical Components

Parallel lines Timing

Explanation

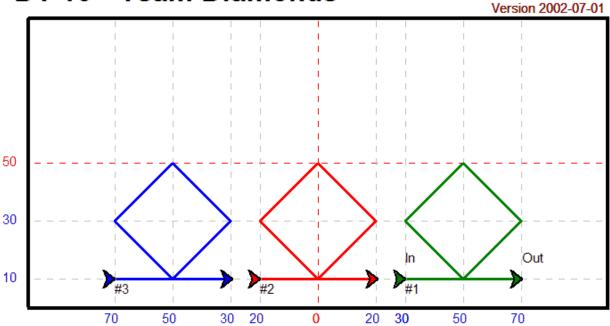
Each kite flies two sides of the square and exits at the opposite corner.

Other components:

Relative placement of components

Speed control





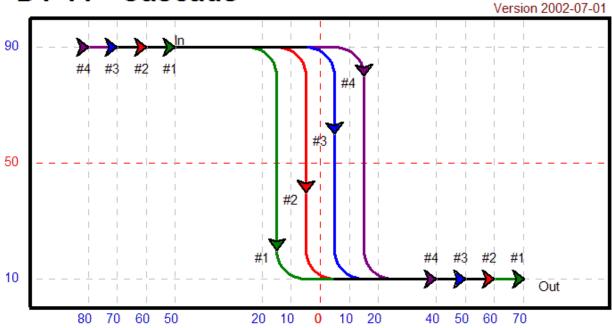
Critical Components

Relative placement of components Timing

Explanation

Other components: Spacing Right angles

DT 11 - Cascade



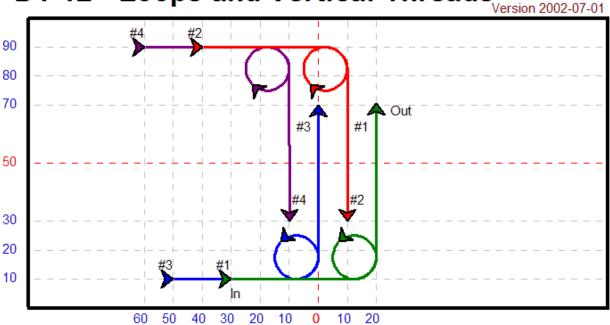
Critical Components

Speed Control Position within the precision grid

Explanation

Other components: Spacing Parallel lines





Critical Components

Circles

Relative placement of components

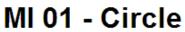
Explanation

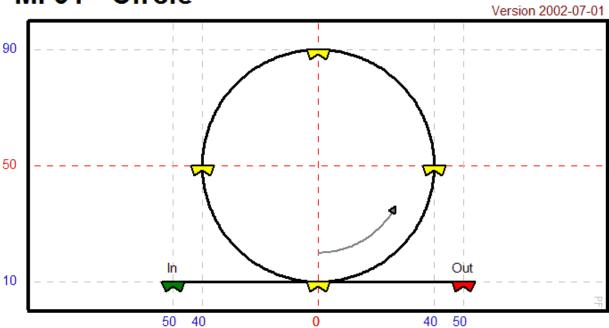
Other components:

Speed control

Position within the precision grid

Parallel lines





Critical Components

Circle Orientation

Explanation

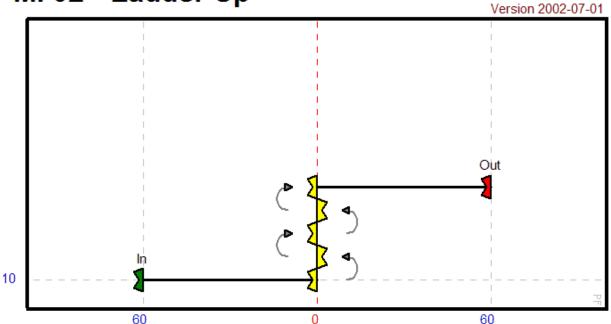
The kite is oriented nose-up throughout the figure.

Other components

Multi-line slide

Position within the precision grid





Critical Components

Rotation

Position within the precision grid

Explanation

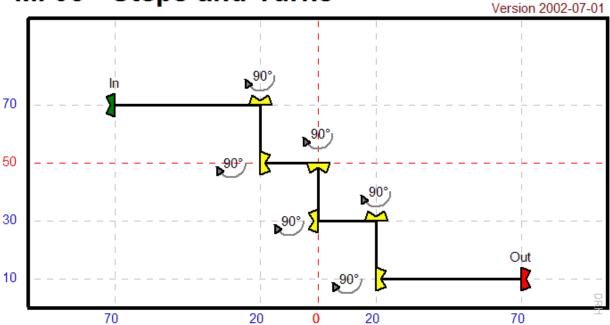
The kite rotates forward around one wingtip after the other as it climbs.

The position of the kite after each rotation is determined by the width of the kite. Therefore, the vertical position of the kite at the end of each rotation and the last horizontal line are undefined. Other components

Relative placement of components

Parallel lines





Critical Components

Relative placement of components Rotation

Explanation

The kite rotates 90° around its center at each change of direction.

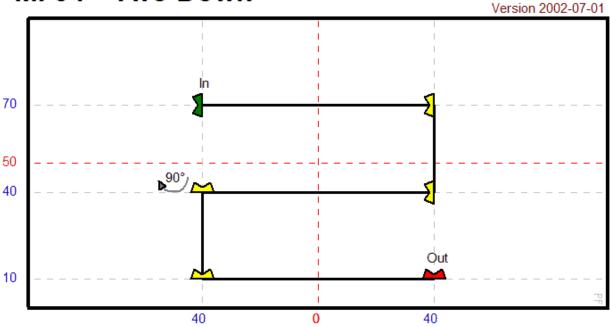
Other components

Straight lines

Position within the precision grid

Backward flight

MI 04 - Two Down

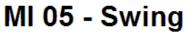


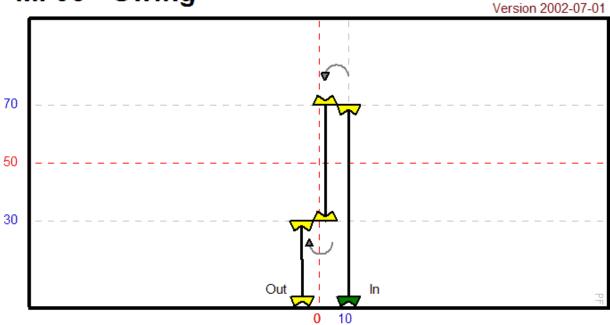
Critical Components

Parallel lines Inverted flight

Explanation

Other components Center rotation Speed control



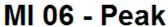


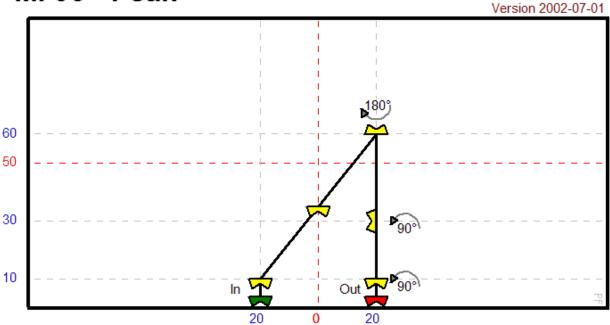
Critical Components

Wingtip rotation Parallel lines

Explanation

Other components Launch Landing





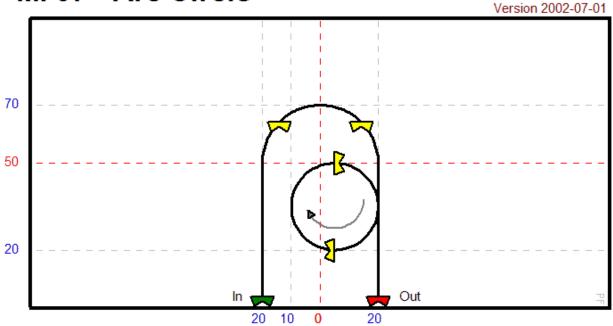
Critical Components

Diagonal flight
Relative placement of components

Explanation

Other components
Launch
Landing
Center Rotation





Critical Components

Circle

Backwards flight

Explanation

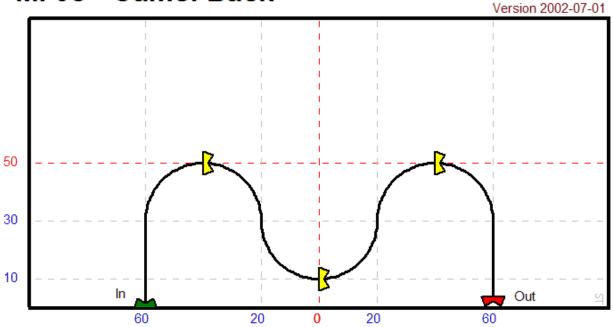
Other components

Arc

Launch

Landing

MI 08 - Camel Back



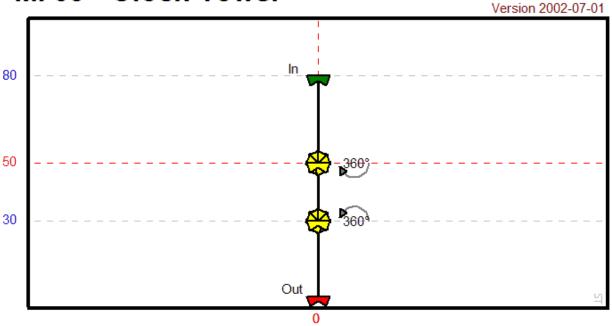
Critical Components

Arcs Backward flight

Explanation

Other components
Speed control
Launch
Landing
Straight lines

MI 09 - Clock Tower



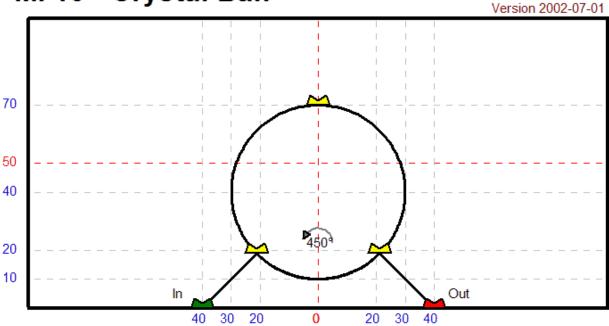
Critical Components

Center Rotation Straight line

Explanation

Both 360° rotations are done in eight individual 45° steps. Other components
Speed control

MI 10 - Crystal Ball



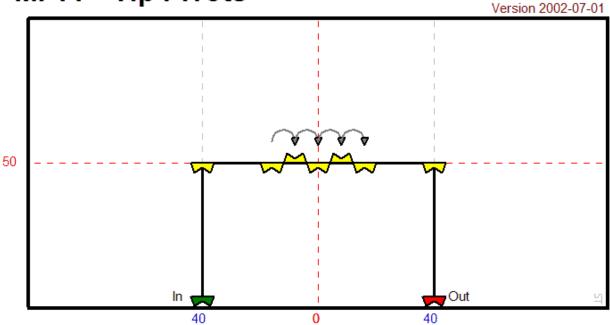
Critical Components

Circle Inverted flight

Explanation

Other components
Speed control
Relative placement of components (size)





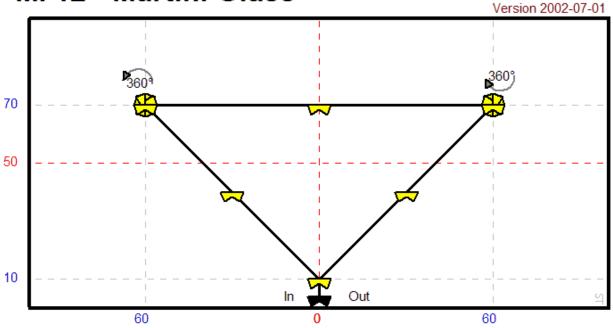
Critical Components

Wingtip rotations Straight lines

Explanation

Other components
Position within the precision grid
Relative placement of components
Speed control

MI 12 - Martini Glass



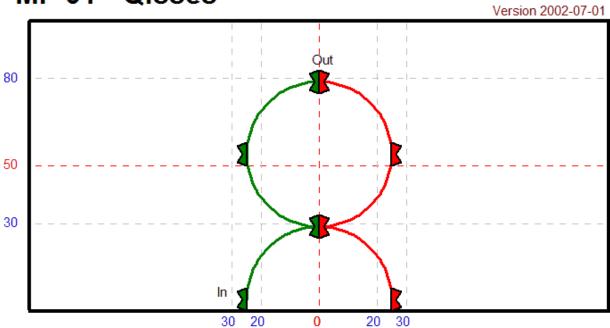
Critical Components

Straight lines Center rotation

Explanation

Other components
Position within the precision grid
Relative placement of components
Speed control

MP 01 - Qisses



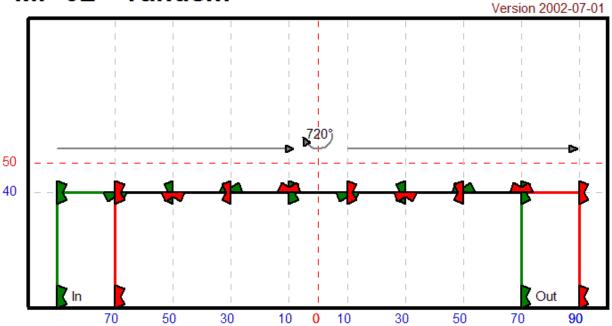
Critical Components

Relative placement of components Speed control

Explanation

Other components
Position within the precision grid
Spacing





Critical Components

Center rotations Timing

Explanation

The two full rotations are done simultaneously as the kites travel across the grid.

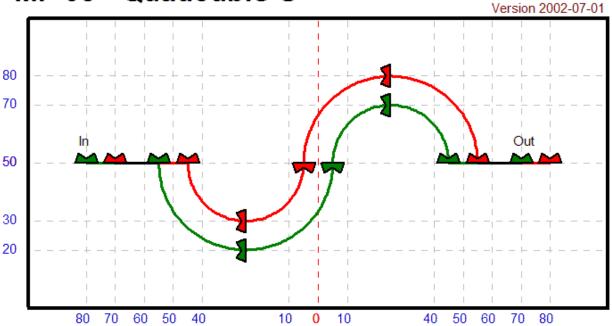
Other components

Position within the precision grid

Speed control

Straight lines

MP 03 - Quadouble-S



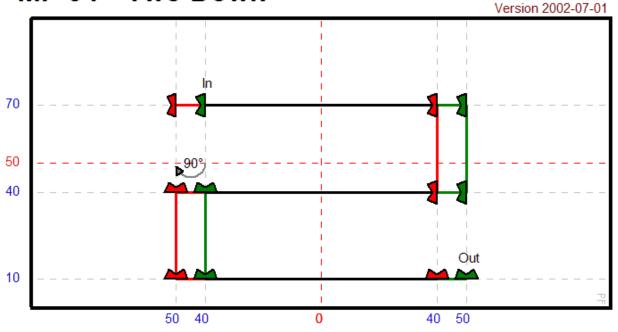
Critical Components

Arcs Spacing

Explanation

Other components
Inverted flight
Position within the precision grid
Speed control

MP 04 - Two Down



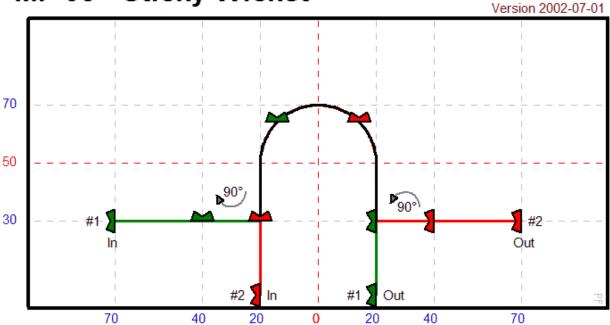
Critical Components

Speed control Spacing

Explanation

Other components
Position within the precision grid
Straight lines
Center rotation





Critical Components

Arc Spacing

Explanation

Kites #1 and #2 rotate right 90° simultaneously at <40 and <20 respectively. Kites #1 and #2 rotate left 90° simultaneously at >20 and >40 respectively.

Kite #1 flies inverted from <40 to <20.

Kite #2 flies inverted from >20 to >40.

Other components

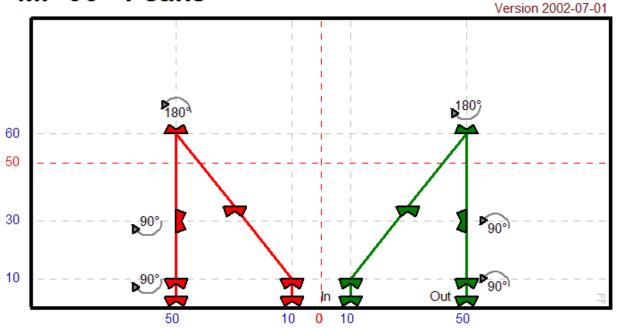
Center rotation

Position within the precision grid

Relative placement of components

Parallel lines

MP 06 - Peaks



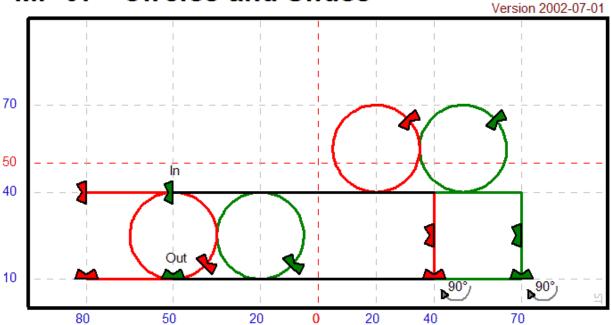
Critical Components

Diagonal flight
Relative placement of components

Explanation

Other components
Launch
Landing
Center rotation





Critical Components

Circles Inverted slide

Explanation

Both sets of circles are flown with the leading edge forward.

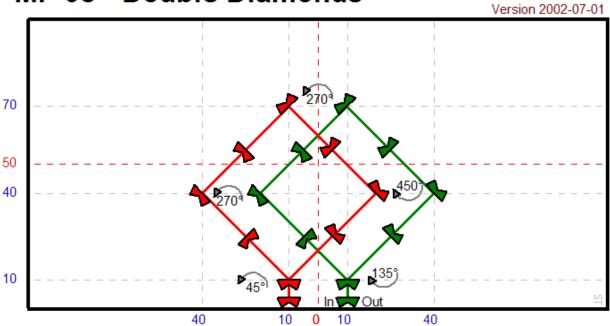
The circles on the left are flown first and go downward.

Other components

Parallel lines

Spacing

MP 08 - Double Diamonds



Critical Components

Spacing Center rotation

Explanation

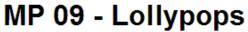
Both kites make a 45° left turn at ^10 after launching. Both kites make a 135° right turn at ^ 10 before landing.

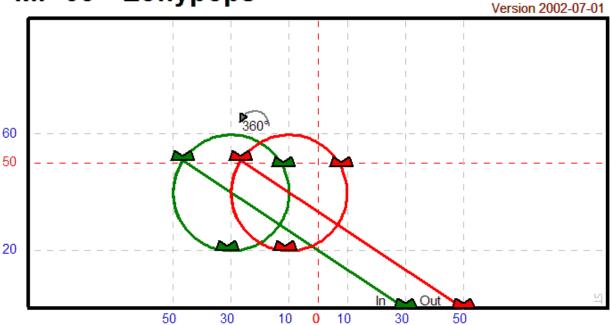
Other components

Parallel lines

Straight lines

Relative placement of components





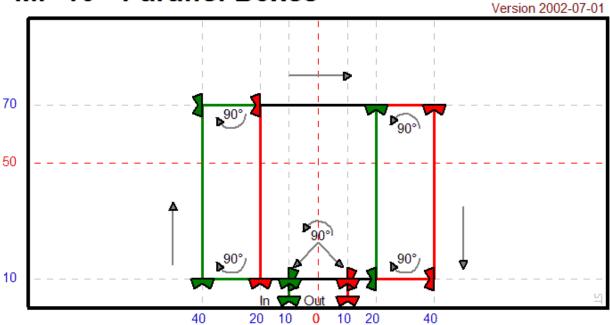
Critical Components

Diagonal flight Circles

Explanation

Other components
Inverted flight
Parallel lines
Spacing
Relative placement of components

MP 10 - Parallel Boxes



Critical Components

Straight lines Speed control

Explanation

After launch and before landing, both kites rotate 90° left at ^10.

Other components

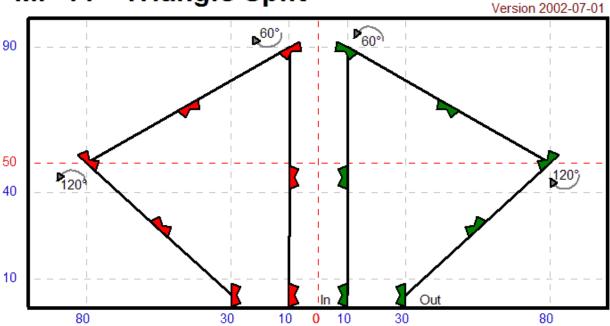
Parallel lines

Spacing

Relative placement of components

Center rotation





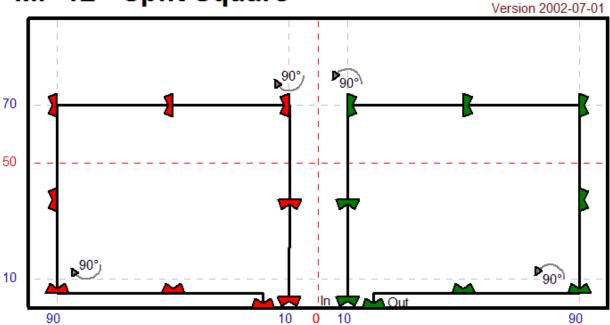
Critical Components

Straight lines
Position within the precision grid

Explanation

Other components
Timing
Center rotations
Backwards flight
Vertical slide





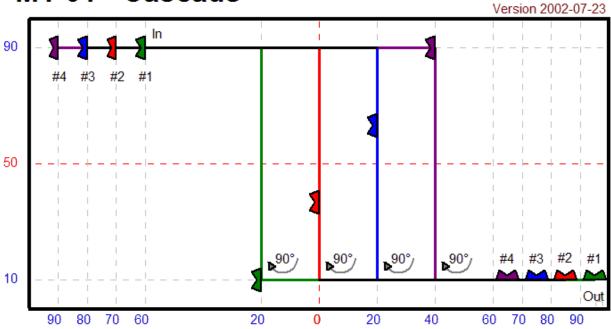
Critical Components

Straight lines Relative placement of components

Explanation

Other components
Inverted slide
Vertical slide
Center rotations
Position within the precision grid





Critical Components

Spacing Speed control

Explanation

At the end of each downward vertical slide each kite rotates 90° and slides to the right.

Kite #1 passes under kites #2, #3, and #4 as it slides to the right.

Kite #2 passes under kites #3, and #4 as it slides to the right.

Kite #3 passes under kites #4 as it slides to the right.

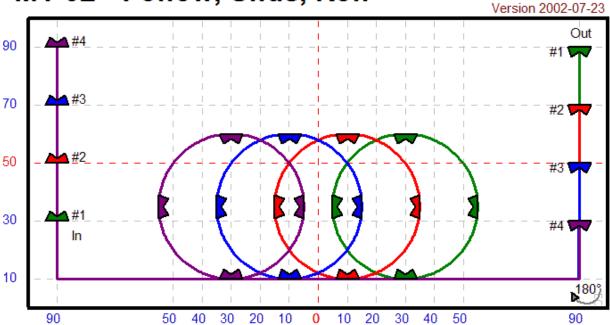
Other components

Position within the precision grid

Straight lines

Center rotations





Critical Components

Circles Spacing

Explanation

The circles are executed with the nose pointed outside the circle throughout.

Other components

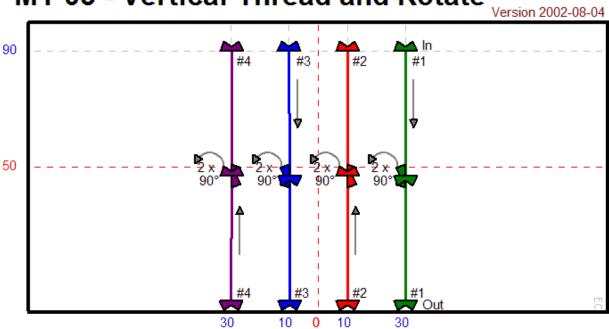
Straight lines

Relative placement of components

Inverted slide

Center rotations





Critical Components

Straight lines
Center rotations

Explanation

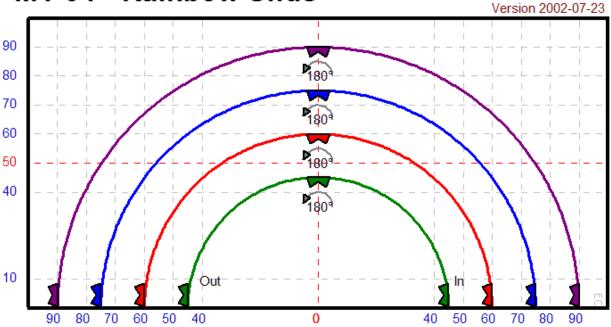
The center rotations at ^50 are composed of two separate 90° rotations with a stop before and after each.

Other components

Spacing

Relative placement of components

MT 04 - Rainbow Slide



Critical Components

Spacing Speed control

Explanation

The launch is from a wingtip stand.

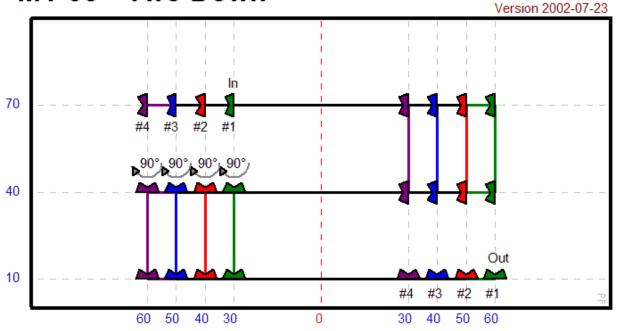
The 180° center rotations are executed in unison and end in a stop.

Other components

Position within the precision grid

Center rotations





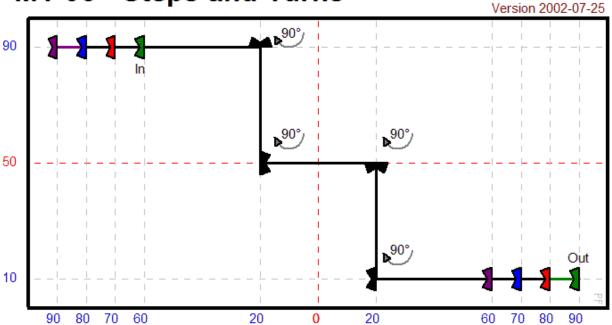
Critical Components

Speed control Spacing

Explanation

Other components
Vertical slide
Center rotation
Position within the precision grid
Straight lines



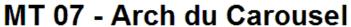


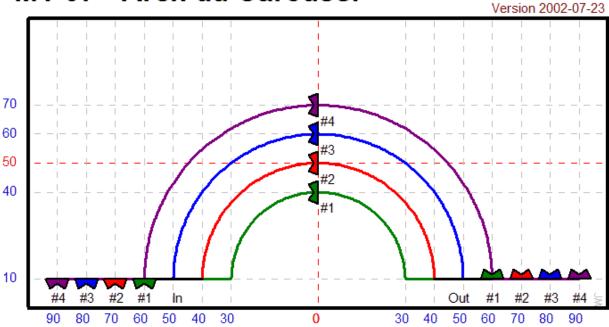
Critical Components

Relative placement of components Center rotations

Explanation

The kites rotate 90° clockwise at each corner.
Other components
Straight lines
Position within the precision grid
Backward flight





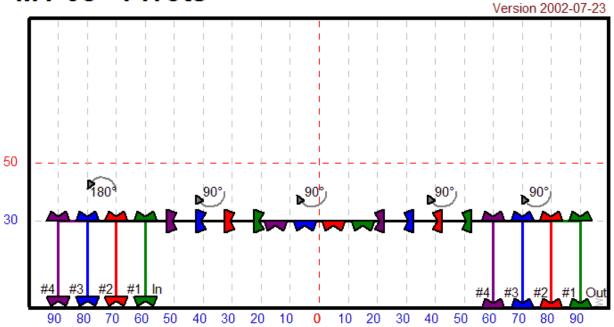
Critical Components

Arcs Speed control

Explanation

Other components
Relative placement of components
Position within the precision grid
Timing

MT 08 - Pivots



Critical Components

Center rotations Straight lines

Explanation

All rotations by all kites are executed simultaneously.

Other components

Position within the precision grid

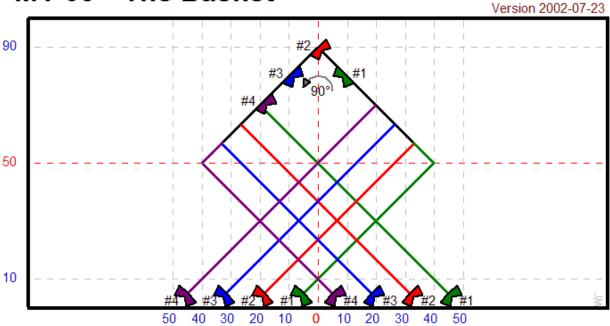
Relative placement of components

Speed control

Backward flight

Horizontal slide

MT 09 - The Basket



Critical Components

Speed control Spacing

Explanation

All kites launch at the same time with the noses pointed at a 45° angle to the right.

All kites reach the top right side of the basket at the same time.

All kites slide diagonally up to and down from <0> ^90

All kites land at the same time with the noses pointed at a 45° angle to the left.

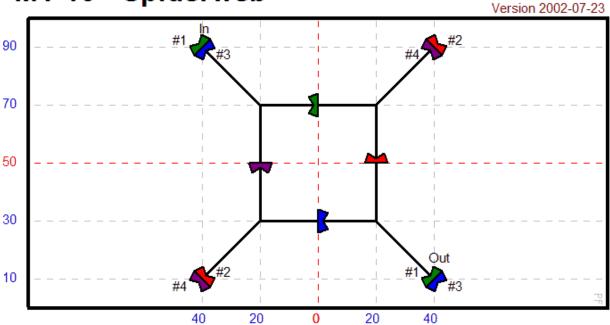
Other components

Timing

Right angles

Parallel lines

MT 10 - Spiderweb



Critical Components

Parallel lines Timing

Explanation

Each kite flies two sides of the square and exits at the opposite corner.

Other components

Relative placement of components

Speed control