### Flying and Judging F3S

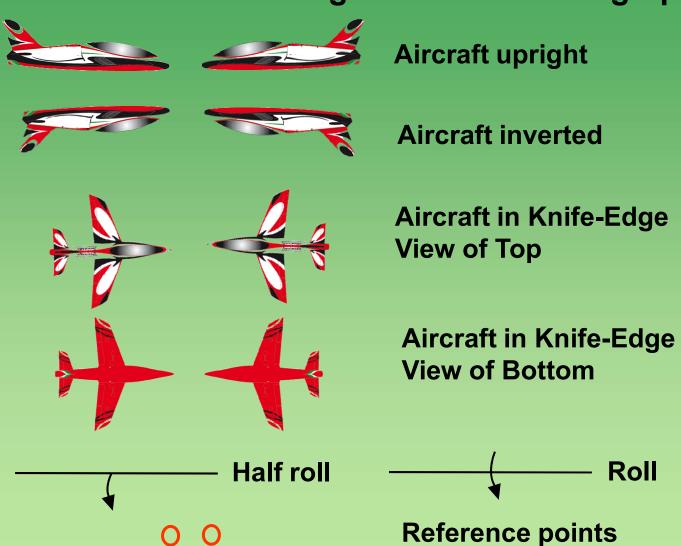


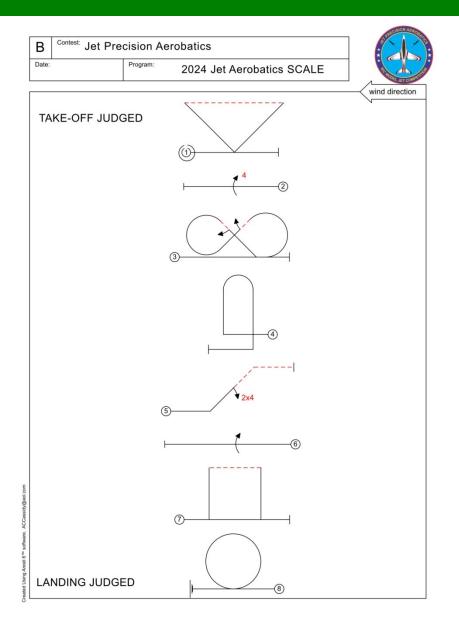
SCHEMATIC MANOEUVRE ILLUSTRATIONS
SCHEDULE SCALE-24

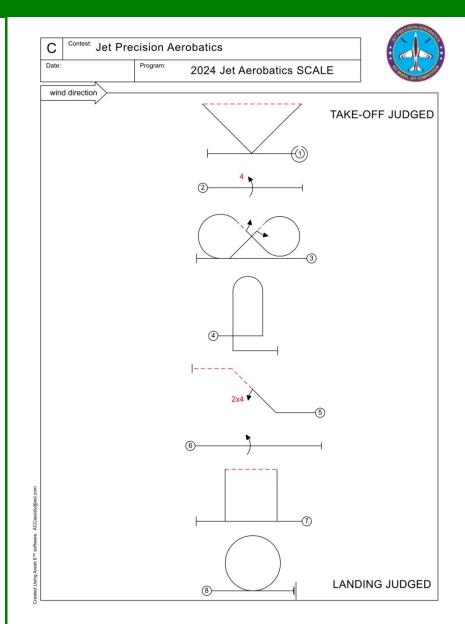
### **Explanations:**

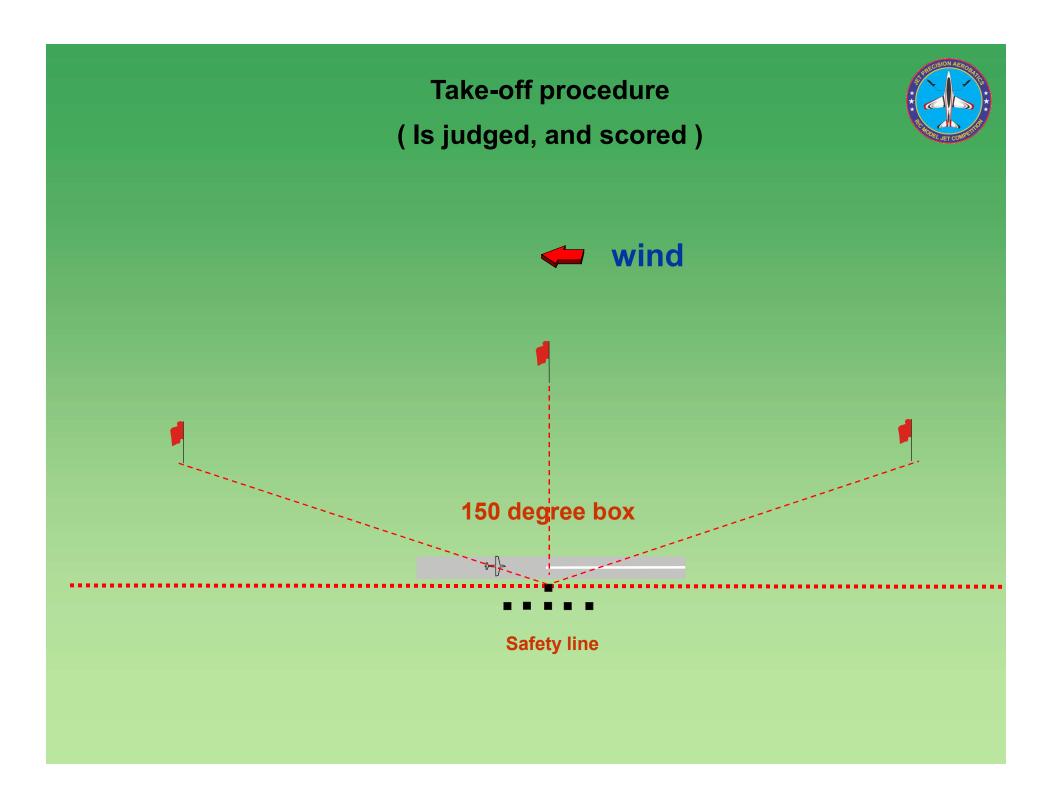


Manoeuvre drawings will show the flightpath.









#### **Takeoff Description:**

- ❖ The takeoff maneuver will be scored in half-point increments from 10 to 0.
- The model is smoothly accelerated to takeoff speed.
- When flying speed is reached, it gently lifts off the ground and climbs at a gradual angle.
- The aircraft must not deviate in track during takeoff but may change heading after liftoff to maintain a straight track with the takeoff roll.
- ❖ The maneuver is complete when the model is approximately 2 meters (6 1/2 feet) from the ground.
- It is also not necessary for the model to reach 2 meters in the same distance as the takeoff roll.
- ❖ The takeoff should not be downgraded for wing dips caused by air turbulence, unless the wings are not immediately leveled.

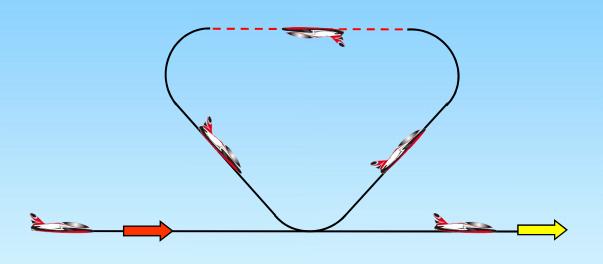
#### **Downgrades:**

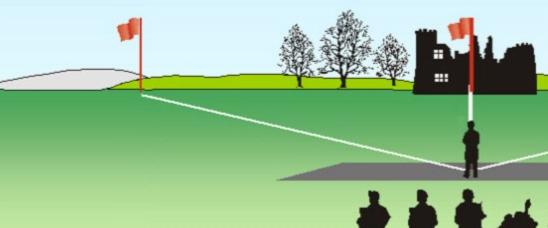
- Model jumps from the ground.
- Model retouches the ground after becoming airborne.
- Steep climb angle.
- Gallops in elevation during climb.
- Wings not level.
- Throttle not smoothly advanced.
- Track not maintained through completion of maneuver (6 1/2 feet from ground)
- Failure to call start of maneuver.
- Model passes behind the judges line, scored 0 points.



### **Scale-24.01 Triangle loop**













From upright, pull through a 1/8 loop into a 45 degree upline, pull through a 3/8 loop into an inverted horizontal line, pull through a 3/8 loop into a 45 degree downline, pull through a 1/8 loop into a horizontal line, exit upright.



### **Scale-24.01 Triangle loop Entry and exit** must be at the All radii are equal. same altitude. 素素素病素

Scale-24.01.02

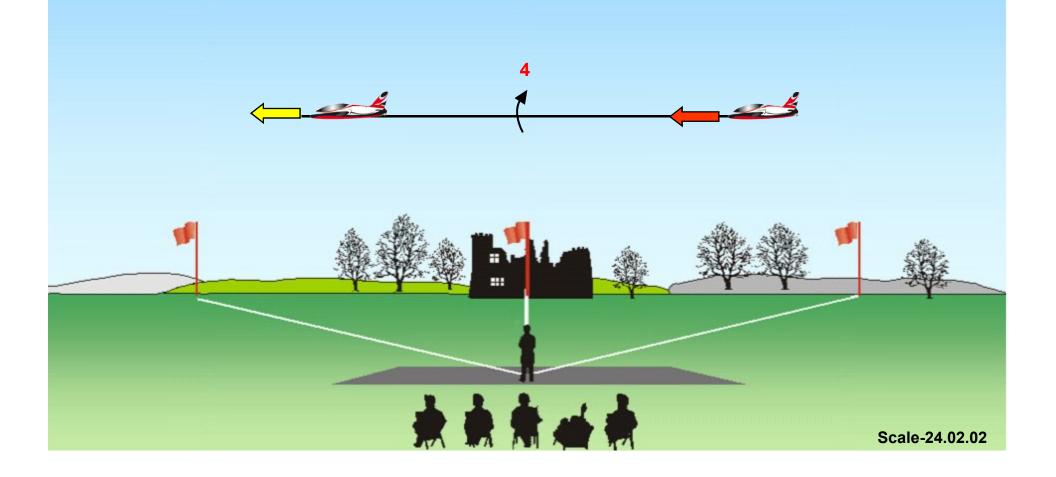
# Scale-24.02 Four Point Roll From upright, perform a four point roll, exit upright. \*\* Scale-24.02.01

#### Scale-24.02 Four Point Roll



Roll rate must be consistent.

Aircraft must maintain a horizontal line.



## Scale-24.03 Cuban 8. 1/2 roll ) 1/2 roll From upright, pull through a 5/8 loop into a 45 degree downline, perform a ½ roll, pull ¾ loop, perform a ½ roll, pull ⅓ loop, exit upright. 素素素毒素

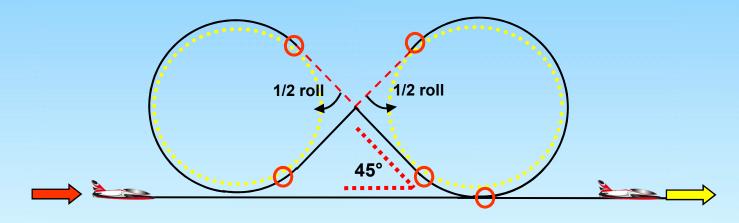
#### Scale-24.03 Cuban 8.

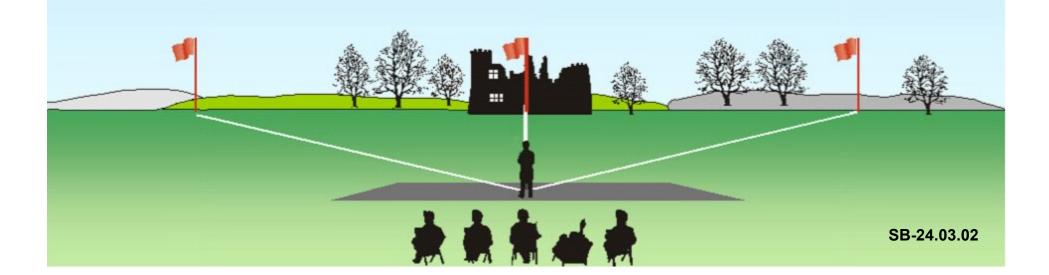


All radii are equal.

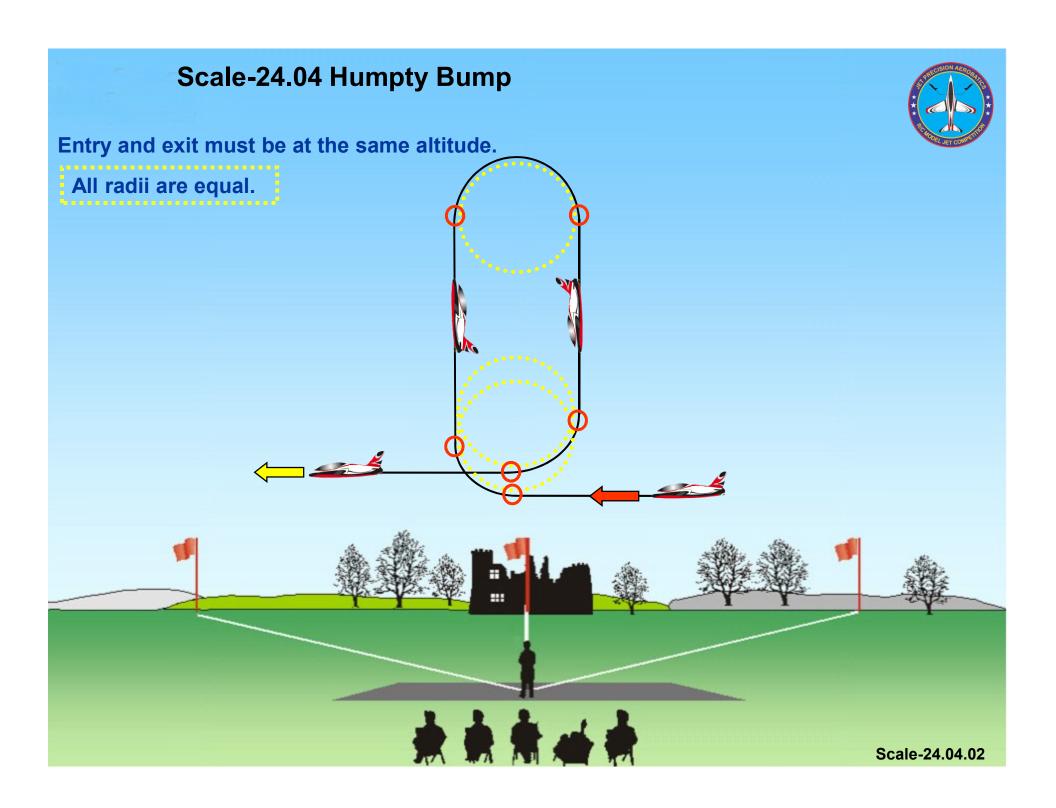
½ rolls on middle of the lines.

Entry and exit must be at the same altitude.





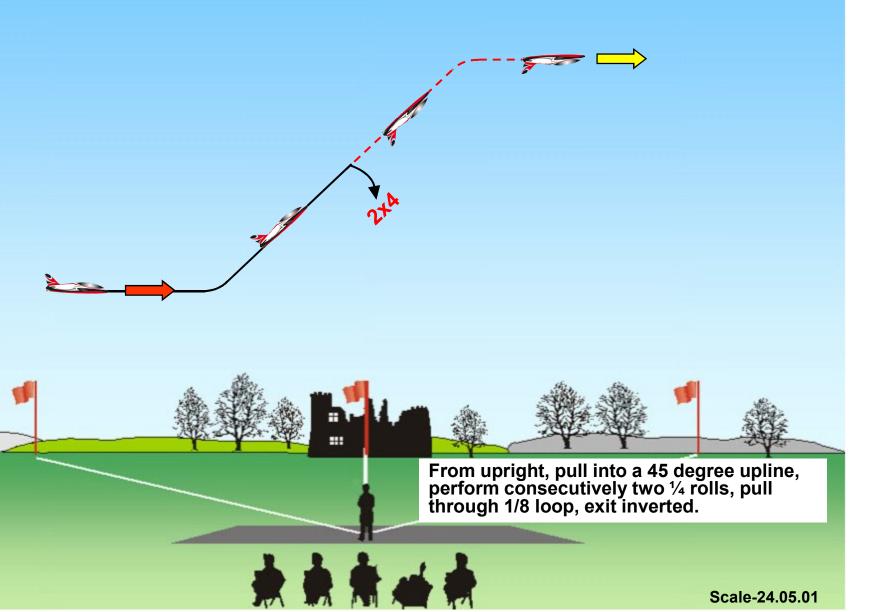
# **Scale-24.04 Humpty Bump** From upright, pull through a ¼ loop into a vertical upline, pull through a ½ loop into a vertical downline, pull through a ¼ loop, exit upright. 素素素毒素 Scale-24.04.01



### Scale-24.05 45° Upline with two consecutive 1/4 rolls



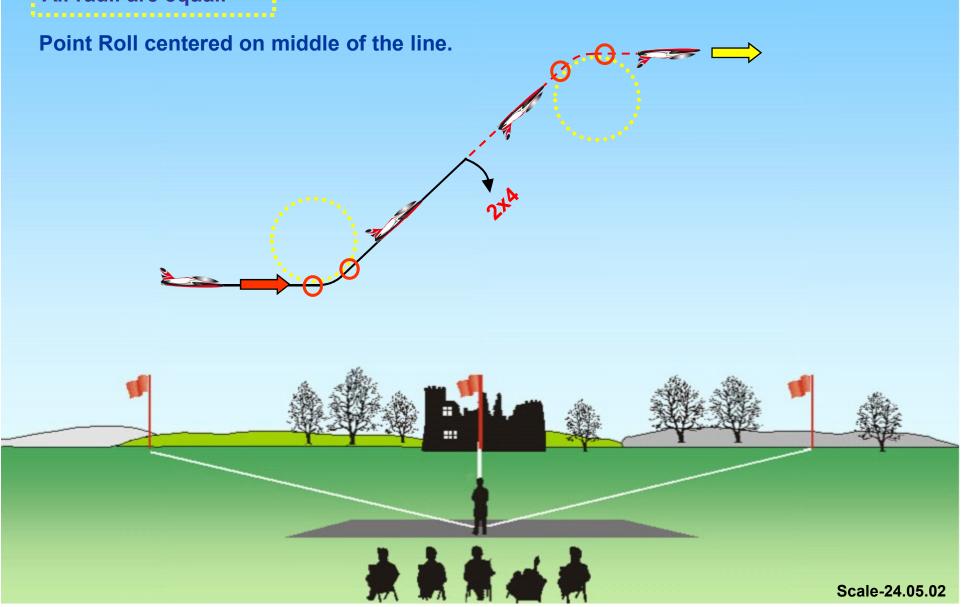
Scale-24.05.01



### SB-24.05 45° Upline with two consecutive 1/4 rolls



All radii are equal.



# Scale-24.06 Slow roll From upright, perform a slow roll, exit upright. 素素素毒素 Scale-24.06.01

# Scale-24.06 Slow roll Rolling speed must be constant. 素素素毒素 Scale-24.06.02

# Scale-24.07 Square Loop From upright, pull through a ¼ loop into a vertical upline, pull through a ¼ loop, pull through a ¼ loop into a vertical downline, pull through a ¼ loop, exit upright. 素素素毒素 Scale-24.07.01

## Scale-24.07 Square Loop Entry and exit must be on the the same level. All radii are equal. 素素素毒素 Scale-24.07.02

## Scale-24.08 Loop From upright, pull through a loop, exit upright. 素素素毒素 Scale-24.08.01

### Scale-24.08 Loop Loop must be round. Entry and exit altitude must be the same. 素素素毒素 Scale-24.08.02

### **Landing procedure** (Is judged, And scored)

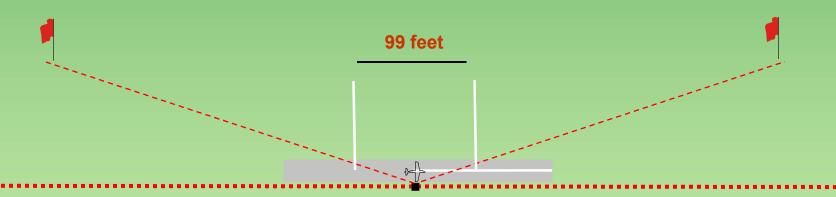


The direction of the landing may be different to the take off.



wind

150 degree box

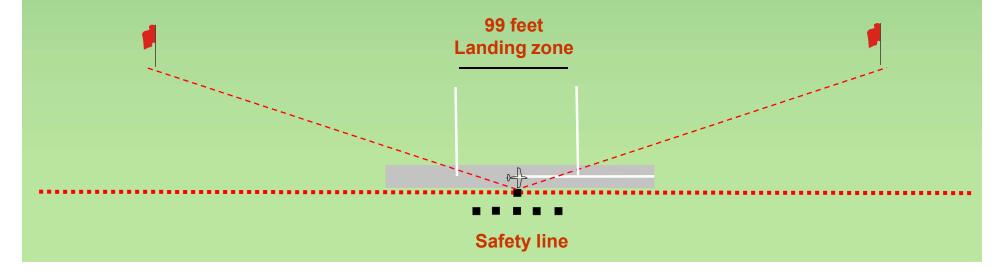


**Safety line** 

#### **Landing Description**



- ❖ The landing maneuver will be scored in half point increments from 10 to 0.
- The maneuver will start two (2) meters from the ground.
- The model flares smoothly, dissipating flying speed, and then smoothly touches the ground, within the landing zone.
- The maneuver should be considered complete once the plane has slowed below flying speed and rolled 10 meters or comes to a stop and no further downgrades shall be applied after that point.
- The landing zone shall be marked by lines placed perpendicular across the runway and spaced 30 meters apart.
- ❖The width of the landing zone is normally the width of the runway but in no case shall exceed 30 meters.
- **❖**Landing is not a centered maneuver and there is no downgrade for displacement of the touchdown point left or right from center as long as the landing is in the landing zone.
- ❖If the touchdown is within the runway but not in the landing zone it should be downgraded proportionate to the distance outside the landing zone.
- The Contest Director may designate any landing zone appropriate to the field if safety considerations dictate.
- ❖If the landing zone is anything other than standard it should be thoroughly discussed with the pilots and judges before flying is started and no downgrade shall be applied due to the touchdown in the non-standard landing zone.



### **Forget WHO is flying**

THE COMPANY OF THE PARTY OF THE

(friend, rival, countryman, flier from other nation)

### Forget WHAT is flying LOOK ONLY AT LINES DESCRIBED IN THE



### Thank you!

Wayne Matthews © With permission from Peter Uhlig, January 2024