



# FLIGHT B/C

Team Checklist – 2023

Rank: \_\_\_\_\_

Tier: \_\_\_\_\_

Final Score: \_\_\_\_\_

Team Number:   B/C   School & Team Name: \_\_\_\_\_

Student Names: \_\_\_\_\_

## PLANE A    PLANE B    ← CHECK-IN (UP TO 2 AIRPLANES)

### Construction & Competition Parameters:

T	F	T	F	3.a.	If kits are used, they do not contain any pre-glued joints or pre-covered surfaces.
T	F	T	F	3.b.i.	If a helicopter is used, it has a flat balsa wood disc, large enough to cover a dime, as the upper most part of the helicopter, the part that would touch a flat ceiling first during flight
T	F	T	F	3.b.ii.	If a glider is used, the handheld launcher in its ready to use configuration fits in the box with the glider when it is presented for inspection.
T	F	T	F	3.c.	Boron filaments are not used in the construction of the aircraft or box.
T	F	T	F	3.d.	The aircraft in its flight configuration & during flight fit into a team-provided rectangular box of 39.0 cm x 28.5 cm x 63.0 cm (Div B) or 33.0 cm x 27.0 cm x 43.0 cm (Div C). The aircraft's overall dimensions do not change after being removed from the box.
T	F	T	F	3.i.	All aircraft-lifting forces are generated by wing(s) or rotor style flying surfaces.
T	F	T	F	3.j.	Total mass of the aircraft, excluding the rubber motor(s), is 8.00 g or more.
T	F	T	F	3.k.	Variable-pitch propellers that include mechanisms to actively change the propeller/rotor diameter or blade angle are not used.
T	F	T	F	3.l.	The sole power for the aircraft comes from rubber motor(s) For single-motor aircraft, each motor, including any attachments such as O-rings, is less than 2.00 g. For multi-motor aircraft, each set of motors do not exceed a combined mass of 2.00g and is checked in as a set. If different sets of motors are checked in, individual motors are not interchanged between sets.
T	F	T	F	3.n.	Students are able to answer questions regarding the design, construction, and operation of the device per the Building Policy found on <a href="http://www.soinc.org">www.soinc.org</a>
T	F	T	F	3.o.	Aircraft are labeled so the Event Supervisor can easily identify to which team it belongs.
T	F	T	F	5.b.	Participants do not receive outside assistance, materials, or communication once they enter the cordoned off competition area to practice, to trim, for inspection, or to compete.
T	F	T	F	5.e.vi.	Participants do not steer the airplane during flight.
<u>1. T</u>	<u>  F  </u>	<u>3. T</u>	<u>  F  </u>	<b>PLANE MEETS ALL CONSTRUCTION AND COMPETITION PARAMETERS ABOVE</b>	

### Bonus:

<u>2. T</u>	<u>  F  </u>	<u>4. T</u>	<u>  F  </u>	6.b.	The airplane has the entire surface of the wing between at least 2 ribs or at least one of the wingtip fences or a vertical stabilizer completely marked with black marker or black tissue, OR the whole surface is black if no ribs are present, OR at least one black-colored lifting surface if no wings or vertical stabilizers are present.
-------------	--------------	-------------	--------------	------	--

## FLIGHT-DESIGN LOG

5. Is the Flight Log complete, incomplete, or not present? <b>Complete</b> <b>Incomplete</b> (10% deduction) <b>Not present</b> (20% deduction)	6. Is the Design Log complete, incomplete, or not present? <b>Complete</b> <b>Incomplete</b> (5% deduction) <b>Not present</b> (10% deduction)
--	---

## 1<sup>ST</sup> FLIGHT                      2<sup>ND</sup> FLIGHT                      ← OFFICIAL FLIGHTS (IN 10 MIN.)

7. <u>  A  </u> <u>  B  </u>	11. <u>  A  </u> <u>  B  </u>	Which airplane from above was used?
8. ____:____.____	12. ____:____.____	<b>Timer 1</b>
9. ____:____.____	13. ____:____.____	<b>Timer 2</b> ← <b>Flight Times</b> (minutes:seconds)
10. ____:____.____	14. ____:____.____	<b>Timer 3</b>

15. T      F      General Rule: The team is disqualified. (Notify the team and their coach as soon as possible.)