

MIBO X-35 | FLIGHT SETUP GUIDE

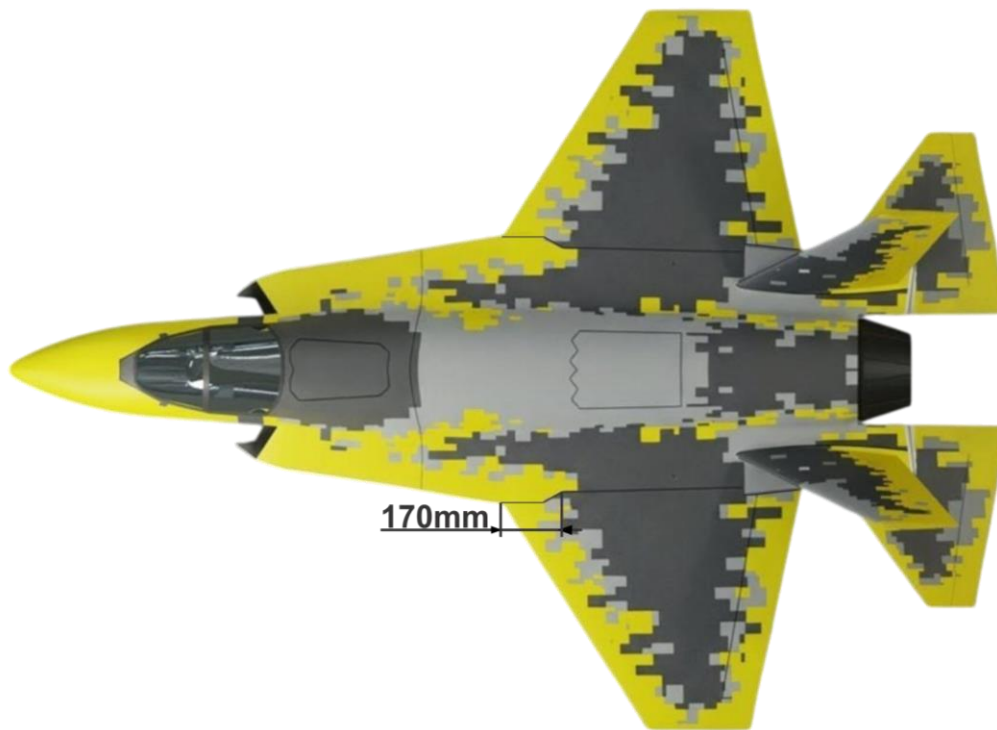
Reference settings for the X-35 • TEAM Pilot-tested configuration

1. Center of gravity (CG)

For the first flight, set the CG at 170mm from leading edge (the second corner/step on the airframe), as indicated in the reference picture. This is the recommended starting position.

After flight testing, you can move the CG approximately 10 mm behind this point (180 mm from leading edge) for 3D Flying. This our recommended setup and provides a very good compromise between scale flying and 3D performance.

Important: All CG measurements are taken with an empty fuel tank and the landing gear extended (down position)



2. Elevator neutral position

335 mm — measured vertically from the ground to the top surface at the tip of the elevator.

3. Control surface throws

Control surface	Direction 1	Direction 2
Aileron	20° down	22° up
Elevator	15° down	13° up
Taileron	8° down	8° up
Rudder	25° left	25° right

4. Exponential (expo)

Control surface	Expo
Aileron	70%
Elevator	60%
Rudder	50%

5. Thrust vectoring

We recommend using three selectable thrust-vectoring modes: full deflection, half deflection, and a reduced setting. These provide different levels of vector authority depending on the flying style. Exact deflection values are not specified here; adjust and verify each mode before flight.

6. Gyro gain

Gyro gain was determined through flight testing. Start conservatively and increase the gain gradually until the aircraft responds correctly without oscillation. The final setting depends on the installed gyro, radio system and individual aircraft setup.

7. Knife-edge flight: troubleshooting

If the aircraft snaps or rolls out of knife-edge flight, carefully check the thrust-vector nozzle neutral position for unwanted up or down trim. Also verify gyro gain, especially when using heading mode. The X-35 naturally tends to roll back toward its belly during knife-edge flight, so the vector and gyro setup must be tuned to compensate.

8. First-flight recommendation

For the first flight, set the CG at 170 mm from the leading edge (the second corner/step on the airframe). This is the recommended starting position.

Once you are comfortable with the aircraft, you can gradually move the CG rearward, checking the flight characteristics after each adjustment. Our currently recommended CG position is 180 mm from the leading edge (10 mm behind the initial reference point), which provides a very good balance between scale and 3D flying.

We strongly recommend always flying the X-35 with the **gyro system enabled**, as it provides additional stability and improves the aircraft's overall flight characteristics.

IMPORTANT These are the personal settings used on Team Pilots X-35, not universal values for every flying style. Verify control directions, mechanical limits, failsafe, gyro behavior and CG before flying.