# Horizon Hobby Blade® 200QX Aerobatic Mode Instructions

**Required:**
Blade 200QX quadcopter
USB-Interface: Multi Rotor Programmer (BLH7840, sold separately)
200QX Aerobatic Mode update found at http://www.bladehelis.com/200QX/
A DSM2/DSMX computerized transmitter with an available 3-position switch and a charged 200QX battery
Either BLH7714 Sport Propellers or BLH7715 3d Propellers

Before getting started, click **HERE** (http://www.bladehelis.com/200QX/) to download the 200 QX Aerobatic Mode update (200 QX Aerobatic Modes.bin).

After downloading the 200 QX Aerobatic Modes.bin to your computer, refer to the instruction manual for the USB-Interface: Multi Rotor Programmer (BLH780, sold separately) to install the update on your 200QX.  The instructions for the USB interface can be found at http://www.bladehelis.com/Products/Default.aspx?ProdID=BLH7840#quickSupport.

After installing the update on your 200QX, refer to your 200QX and transmitter manuals for switch assignment and programming.

Install either BLH7714 Sport Propellers or BLH7715 3d Propellers on your 200QX. Sport props are best suited for mild inverted flight while the 3d props are for more aggressive inverted flight. See the Removing Propellers section of the 200QX manual for help removing the existing props and installing new props.

**If you want to access Aerobatic Modes after installation of the update:**
1. Rebind your 200QX while holding left rudder and maintaining low throttle.
2. Continue holding left rudder until you hear a second set of start tones.
3. After the second set of start tones, return the rudder stick to center.
4. The model will reset, ready for Aerobatic Mode flight.

**If you want to return to standard flight modes after installation of the update:**
1. Rebind while holding right rudder and maintaining low throttle.
2. Continue holding right rudder until you hear a second set of start tones.
3. After the second set of start tones, return the rudder stick to center.
4. The model will reset, ready for normal upright flight.

**Throttle Operation:**

**NOTICE:** Before starting the motors, set up Throttle Cut in your transmitter to stop the motors.  Failure to do so may result in injury or damage.
o   Start the motors by holding down on the throttle and rapidly moving the rudder stick from full left to full right, then return the rudder stick to the center.
o   Propellers will not produce lift for flight until the throttle stick has been moved past the half-way point.
o   Use Throttle Cut to stop motors. Lowering the throttle below the half-way point results in a running idle.

**Aerobatic Mode features:**
▪ **Stability Mode 1 (pos0) White LED -** High bank angle limit with self-leveling.
   ▪ After starting, the motors will remain at idle until the throttle stick is raised above the half-way point.
**Tip:** If you lose control in Aerobatic Mode 2 or 3, switch to Mode 1 (pos0) and add throttle. The model will self-level with high bank angle limits. However, the throttle stick must be above the half-way point or the motors will idle and the model will descend.

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**Aerobatic Mode features - Continued**

- **3D Stagility™ Mode 2 (pos1) Purple LED -** 3D Stagility Mode with self-leveling
    - Throttle start up is similar to Stability Mode 1 (pos0). However, once the throttle has been raised past the half-way point, 3D Stagility mode is armed. Once armed, moving the throttle stick below the half-way point will reverse the motors for inverted flight.
    - Upright or inverted, while the cyclic controls are moved less than %80 of stick travel, the model flies as if it is in Stability Mode 1 (self-leveling).

  **IMPORTANT:** Flipping the model may cause it to descend. Allow sufficient altitude for return to level flight.
    - Exceeding %80 cyclic control stick travel will temporally disable the bank limits, allowing the model to be flipped by the user.
        - Flipping from upright to inverted, the throttle stick must also be pulled below the half-way point. This will cause the motors to reverse direction and produce thrust to remain inverted.
        - Flipping from inverted to upright, the throttle stick must also be raised above the half-way point. This will cause the motors to reverse direction and produce thrust to remain upright.

- **3D Agility Mode 3 (pos2) Yellow LED -** 3D Mode with NO self-leveling
    - Throttle start up is similar to Stability Mode 1 (pos0). However, once the throttle has been raised past the half-way point, 3D Agility Mode is armed. Once 3D Agility Mode is armed, bringing the throttle below the half-way point will reverse the motors for inverted flight.