

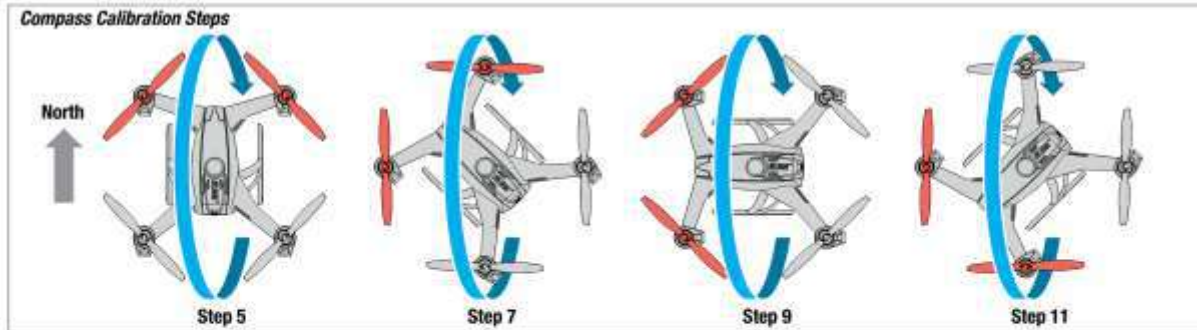
## Compass Calibration

The Flight Controller on the 350 QX2 has automatic magnetic declination calibration, so you will not have to worry about looking up the magnetic declination at your location and changing settings on your 350 QX2 to get accurate compass measurements. The status LED blinks orange if the compass senses a magnet or metal object nearby. A random orange flash of the LED is considered normal, and not cause for compass calibration. When the Status LED blinks a consistent pattern of orange, compass calibration should be performed using the procedure below.

### Compass calibration procedure:

1. Go to an open space outdoors away from metal. Take a conventional compass with you to ensure you know the direction of north.
2. Ensure your transmitter is off and then connect a flight battery to the 350 QX2. Power the aircraft on. Wait five seconds and then the blue LED will begin flashing rapidly, signaling the aircraft is initialized and ready to bind.
3. Once the blue light begins flashing, bind with yaw stick left. The 350 QX2 LED will slowly flash between red and green for 5 seconds.
4. Put the 350 QX2 flat in your hands and face north. After 5 seconds of slow flashing, the quad will start flashing rapidly. The quad is now collecting data to be used for the calibration.
5. Slowly rotate the quad 360 degrees about the east-west axis ("flip" the aircraft either forward or backward) until it is flat in your hands again.
6. Continue facing north and yaw the quad 45 degrees left so the quad is now facing north-west.
7. Slowly rotate the quad 360 degrees about the east-west axis, ("flip" the aircraft diagonally either direction) until it is flat in your hands again.
8. Continue facing north and yaw the quad 45 degrees left so the quad is now facing west.
9. Slowly rotate the quad 360 degrees about the east-west axis ("flip" the quad sideways either direction) until it is flat in your hands again.
10. Continue facing north and yaw the quad 45 degrees left so the quad is now facing south-west.
11. Slowly rotate the quad 360 degrees about the east-west axis ("flip" the aircraft diagonally either direction) until it is flat in your hands again.

You have 30 seconds to complete the procedure. The 350 QX2 should still be blinking rapidly when you finish. Hold the aircraft still until it stops blinking rapidly. If successful, the 350 QX2 will beep a positive confirmation and then restart itself. If unsuccessful, the 350 QX2 displays the failed calibration code, a solid white LED. If the 350 QX2 displays this error code, power off the aircraft and then begin the calibration procedure again.



## Pressure Sensor Calibration

The pressure sensor is calibrated at the factory on the 350 QX2. Recalibration should only be necessary if you replace the sensor.

1. Place the 350 QX2 in a cold area. Allow it to remain in the cold for 30 minutes or more.
2. Bring the 350 QX2 out of the cold and into a warm area. The greater the difference in temperature between the cold and warm areas, the more accurate the calibration will be.
3. Ensure your transmitter is off and then connect a flight battery to the 350 QX2 and power the aircraft on. Wait five seconds and then the blue LED will begin flashing rapidly, signaling the aircraft is initialized and ready to bind.
4. Once the blue light begins flashing, bind with yaw stick right. The 350 QX2 will blink red and blue rapidly. Leave the aircraft and transmitter powered on and allow the aircraft to warm up for 10 minutes. Do not move the aircraft during this time.
5. After 10 minutes the motors on the aircraft will beep to indicate the calibration is complete. Power off the aircraft and then your transmitter.

If the 350 QX2 displays the failed calibration code, power off the aircraft and then begin the pressure calibration procedure again.

## Accelerometer Calibration

To calibrate the accelerometer, the quadcopter needs to fly for 20 seconds while being level. This allows the accelerometer readings to be averaged and stored in memory.

Use the following procedure to calibrate the accelerometer:

1. Power on the quadcopter with the transmitter off to enter bind mode.
2. Turn on the transmitter while holding the elevator stick back and pressing the bind switch.
3. Set the flight mode switch to AP Mode or Smart Mode. The quadcopter will fly in AP Mode no matter which position is selected.
4. Start the motors. Fly the quadcopter off the ground. The quadcopter LED will flash slowly (red, green, blue).
5. Activate the accelerometer calibration mode by changing the flight mode switch into Stability Mode. The vehicle will still fly in AP Mode. The LED will start flashing quickly (red, green, blue).
6. Fly steadily for 10–30 seconds. The LED will flash slowly when data collection is done.
7. Land the quadcopter and stop the propellers by lowering the throttle and holding the bind button for 1 second.
8. Start the motors and verify the quadcopter flies without drifting.
9. Land the quadcopter and stop the motors by lowering the throttle and holding the bind button for 1 second.
10. Save the calibration by moving the rudder stick quickly left, right, left, right. Values are saved when you hear a rapid triple tone twice.
11. Turn off the quadcopter.
12. Confirm the calibration by powering up the quadcopter and performing a test flight. If the calibration is not correct, start the calibration procedure again.

**IMPORTANT:** The calibrated values are not yet permanently stored. Do not turn off the quadcopter.