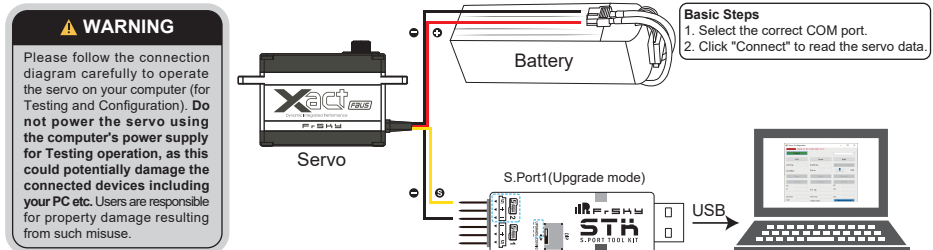


Part 1. How to configure Xact series servo by Servo Configuration on PC.

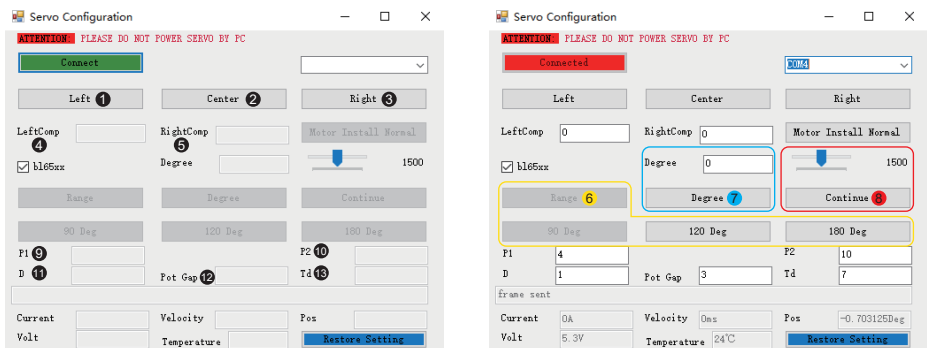
Preparations

- Xact series servo
- Servo Configuration (PC Program)
- STK tool
- Y harness cable

Connection Diagram



Setting Function



- ① Send the control command to move the servo arm to the left edge.
- ② Send the control command to move the servo arm to the center.
- ③ Send the control command to move the servo arm to the right edge.
- ④ Tune the Left-side edge position by setting the Left Compensation.
- ⑤ Tune the Right-side edge position by setting the Right Compensation.
- ⑥ Range Mode: This mode offers users 3 preset options of angle degrees (90°/120°/180°) for the servo travel range.
- ⑦ Degree Mode: This mode allows users to set the servo travel range with the required angle degrees.
- ⑧ Rotate Mode(6500H series): In this mode, users can use the sliding bar to set the rotation direction and tune the rotation speed.
 - Rotation Direction: Clockwise rotation with setting > 1500us, and counterclockwise with setting < 1500us
 - Rotation Speed:
 - Between 1501us-2159us, the bigger the setting value is, the faster the clockwise rotation speed achieves;
 - Between 800us-1499us, the bigger the setting value is, the faster the counterclockwise rotation speed achieves;
- ⑨ P1: Arm-Locking Strength
- ⑩ P2: This value is used to calculate the P1/P2. It's for tuning the servoarm movement speed.

(Tip: When servo jitter occurs, the situation can be alleviated by decreasing the P1 value or increasing the P2 value. This adjustment reduces the ratio of P1/P2, which helps to smoothen the servo's operation.)

- ⑪ D1: Adjustment to the P1 value.
- ⑫ Td: Time differential. It's used as a Filter, it normally does not need to be changed.
- ⑬ PotGap: Potential Gap. This value should be set very closely to the actual mechanical gap, like 3 means 0.3°
When the mechanical gap is 0.3°, then the PG value should be set less than it about 0.2°.

Note: Please remember to click the "Restore Setting" button to ensure that the above settings are written and saved to the servos.