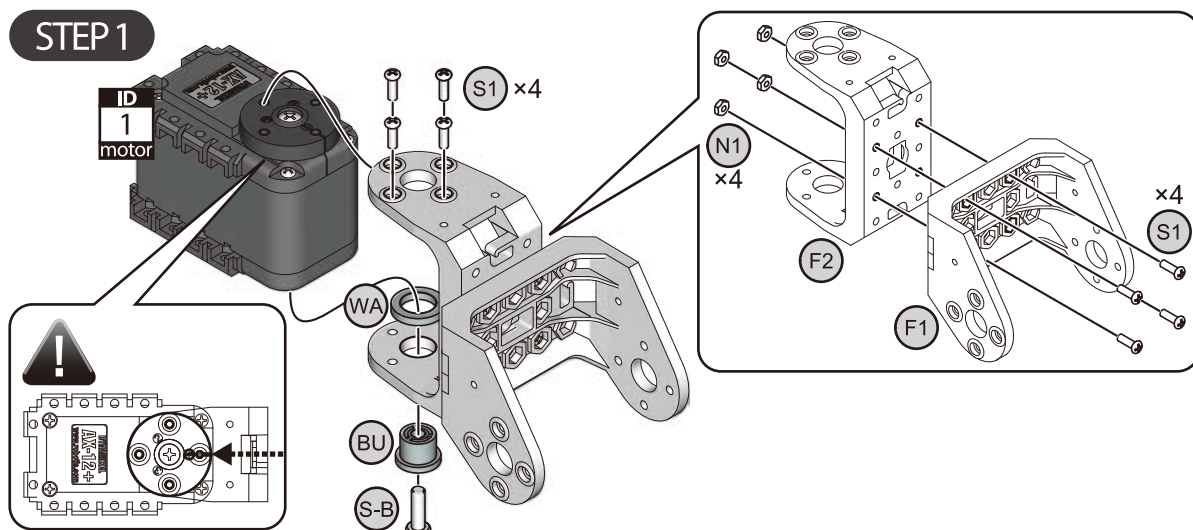


BIOLOID

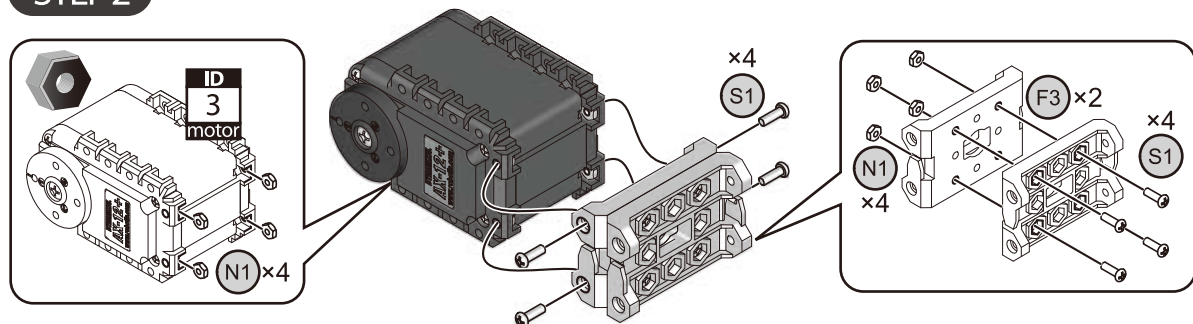
Spider



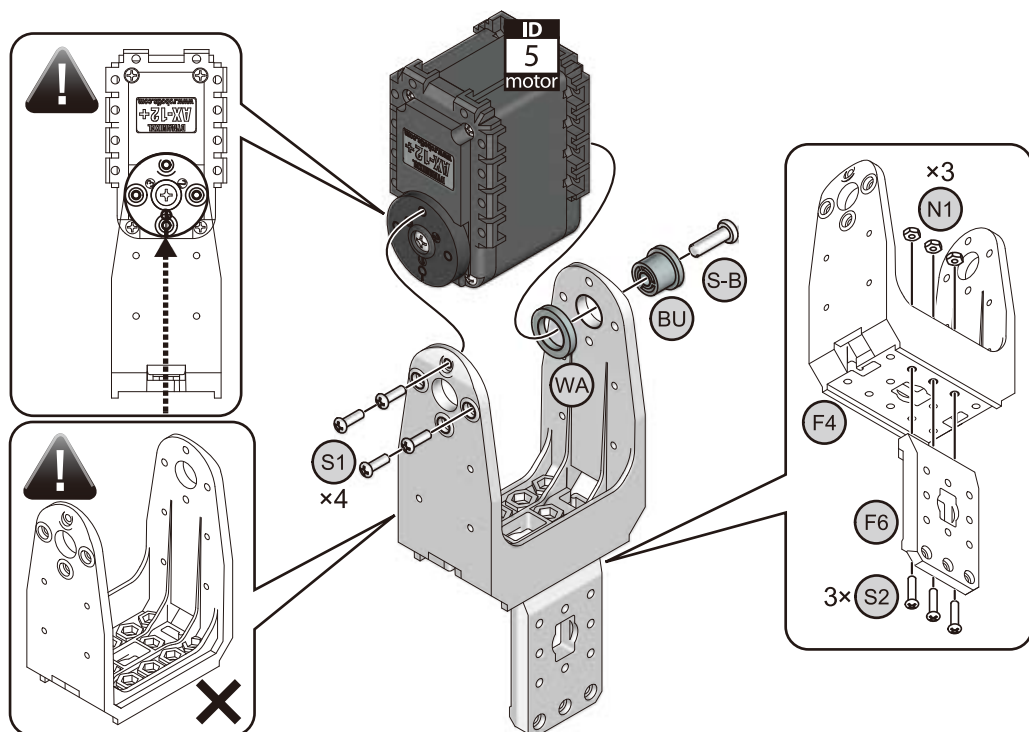
ID
1
motor



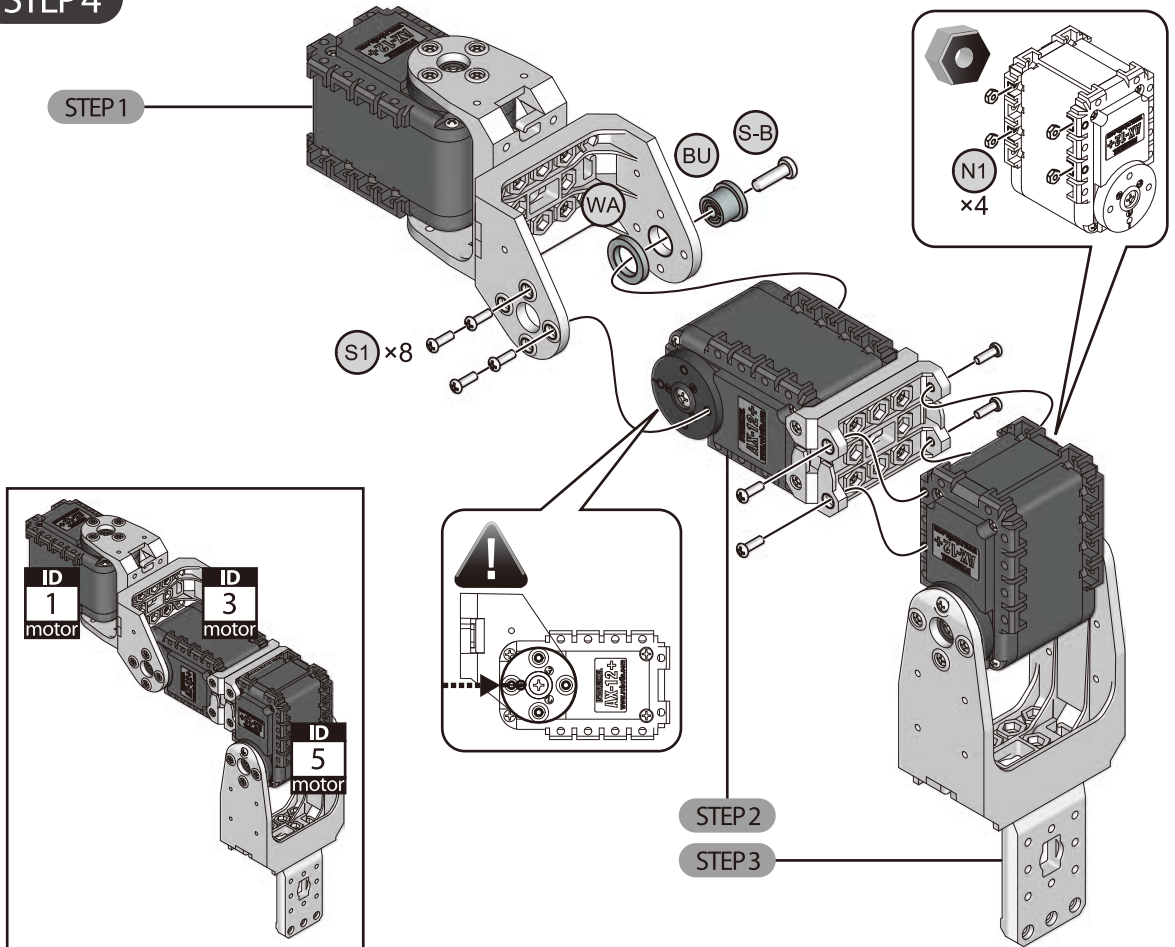
ID
3
motor



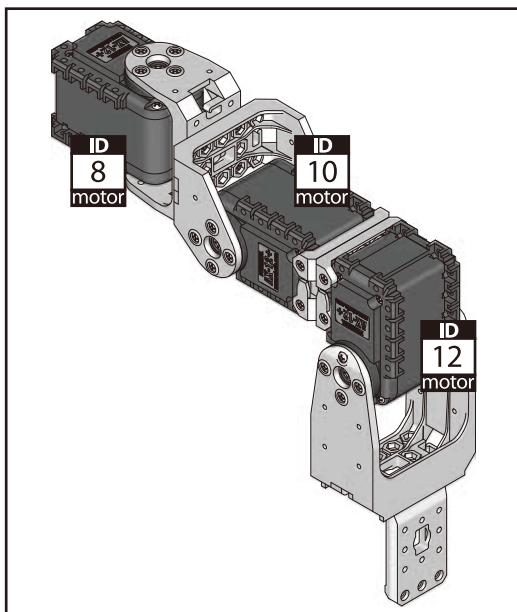
ID
5
motor



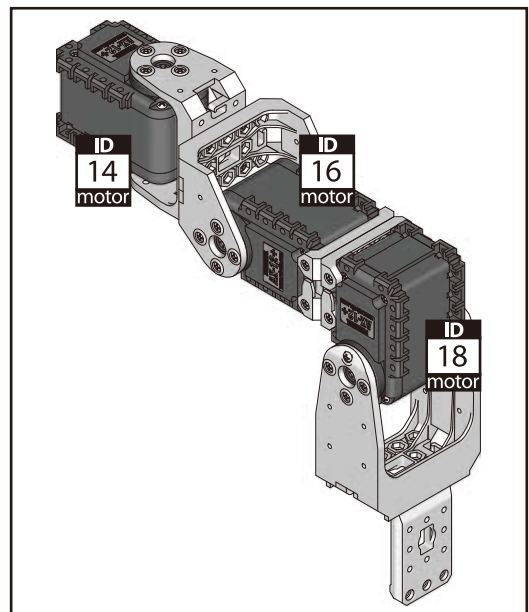
STEP 4



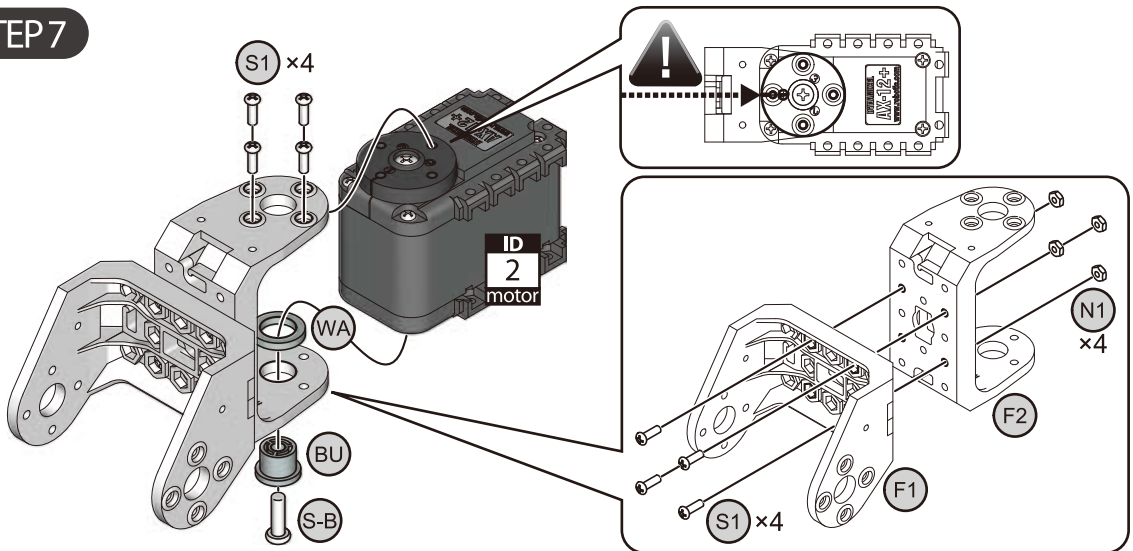
STEP 5



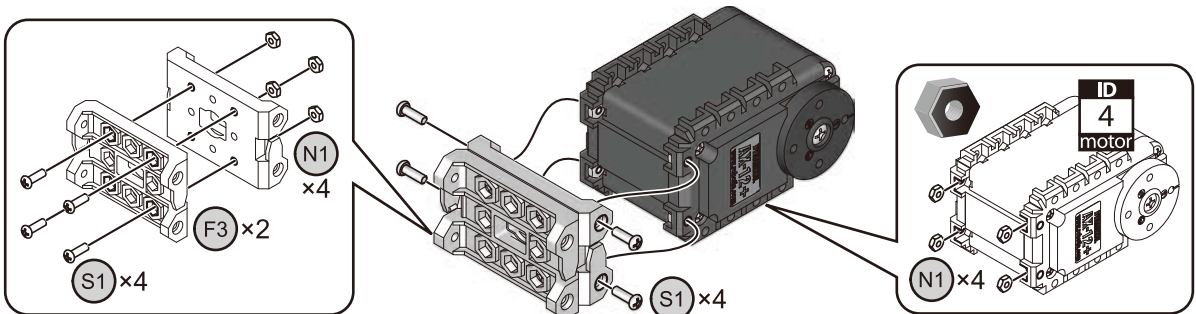
STEP 6



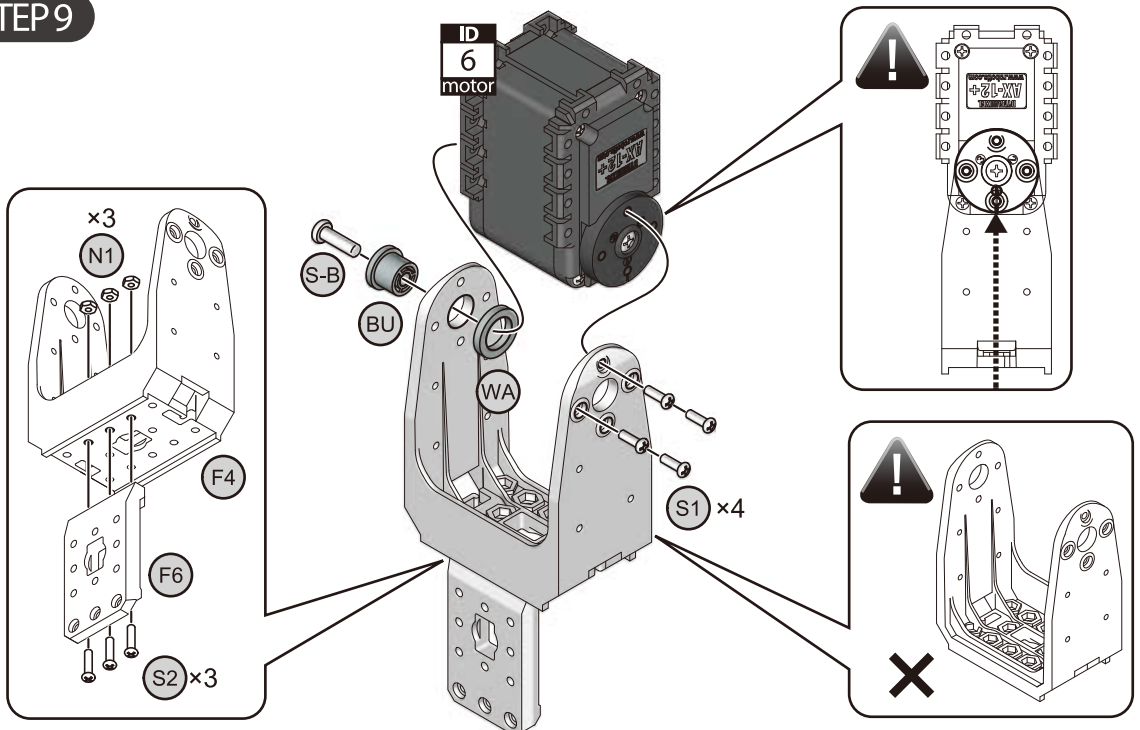
STEP 7



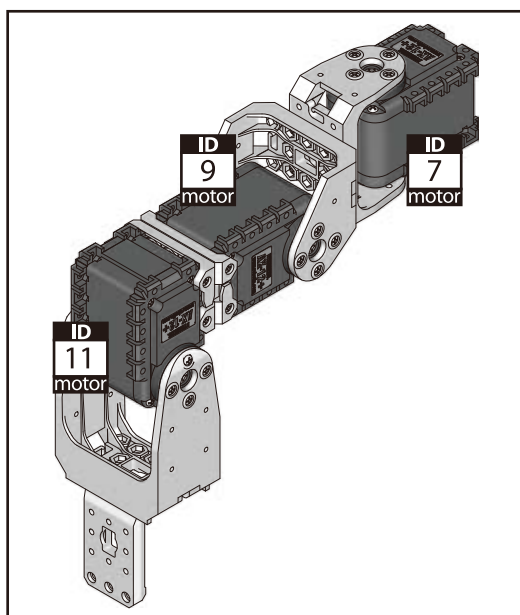
STEP 8



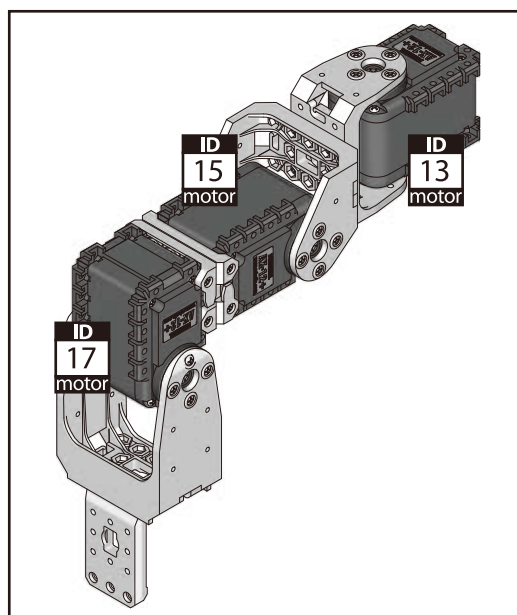
STEP 9



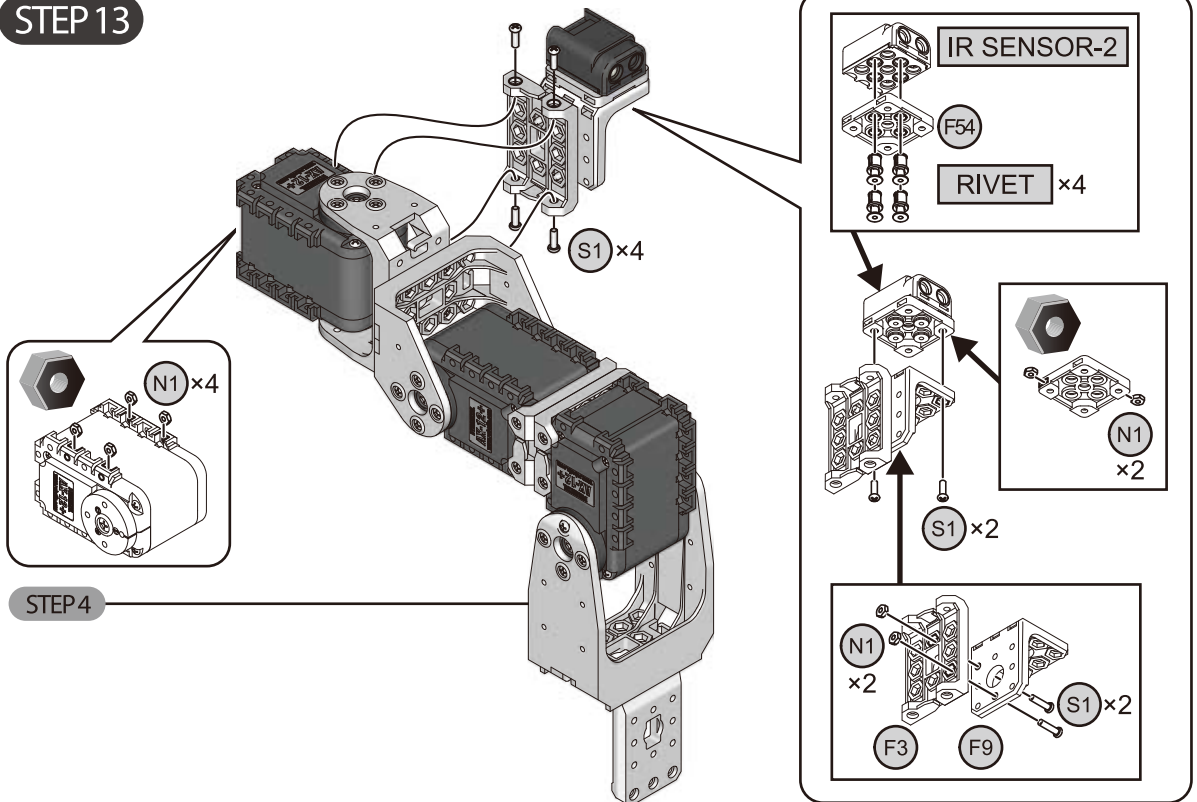
STEP 7



STEP 12

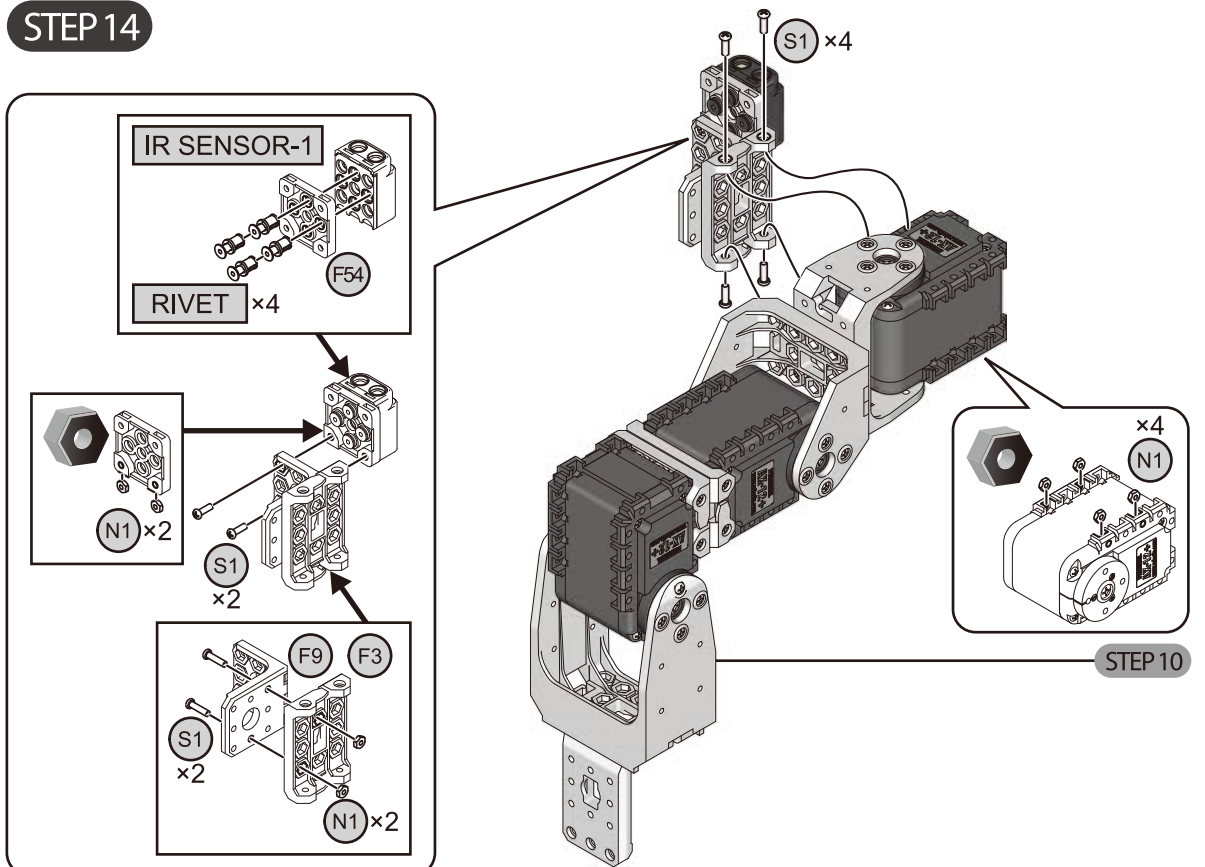


STEP 13



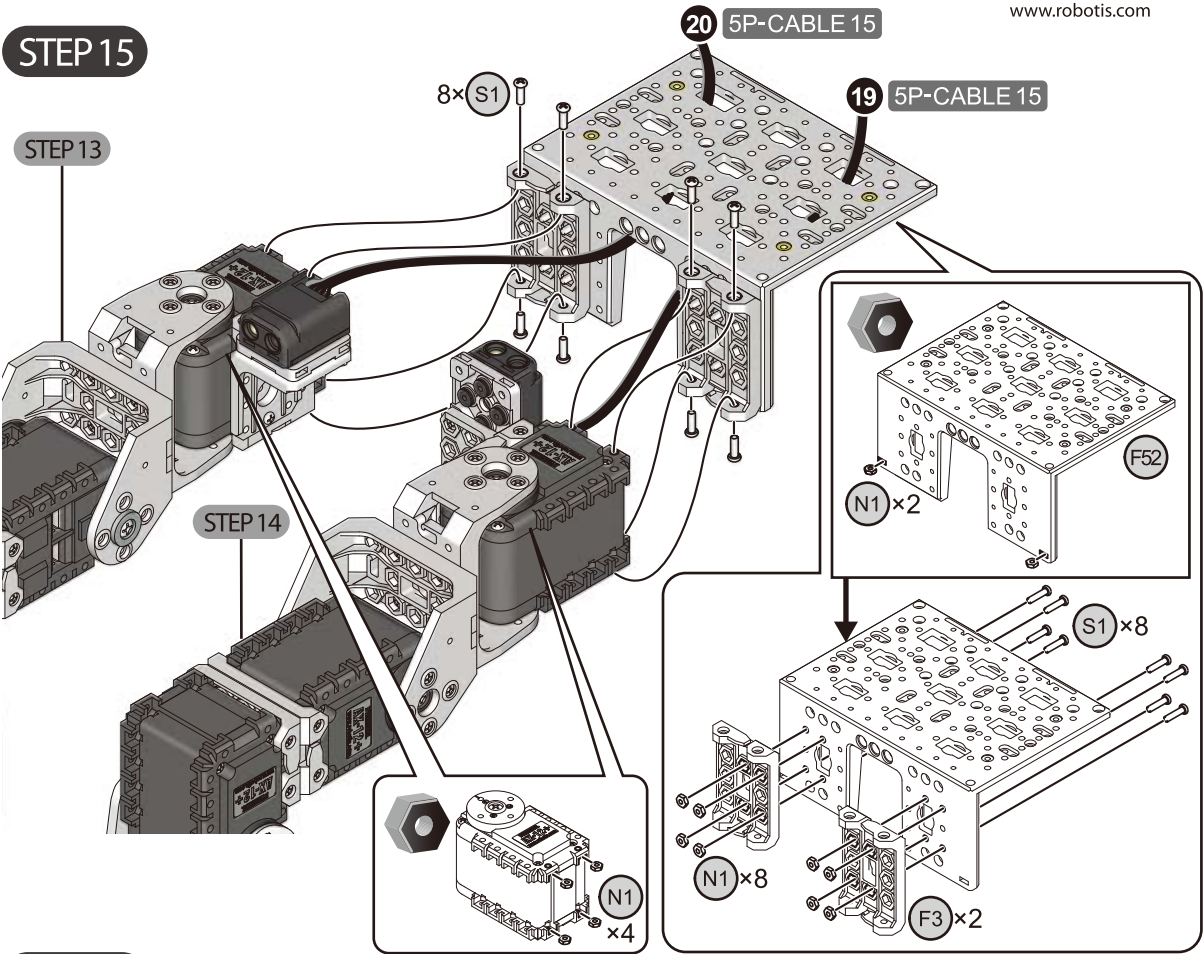
STEP 4

STEP 14

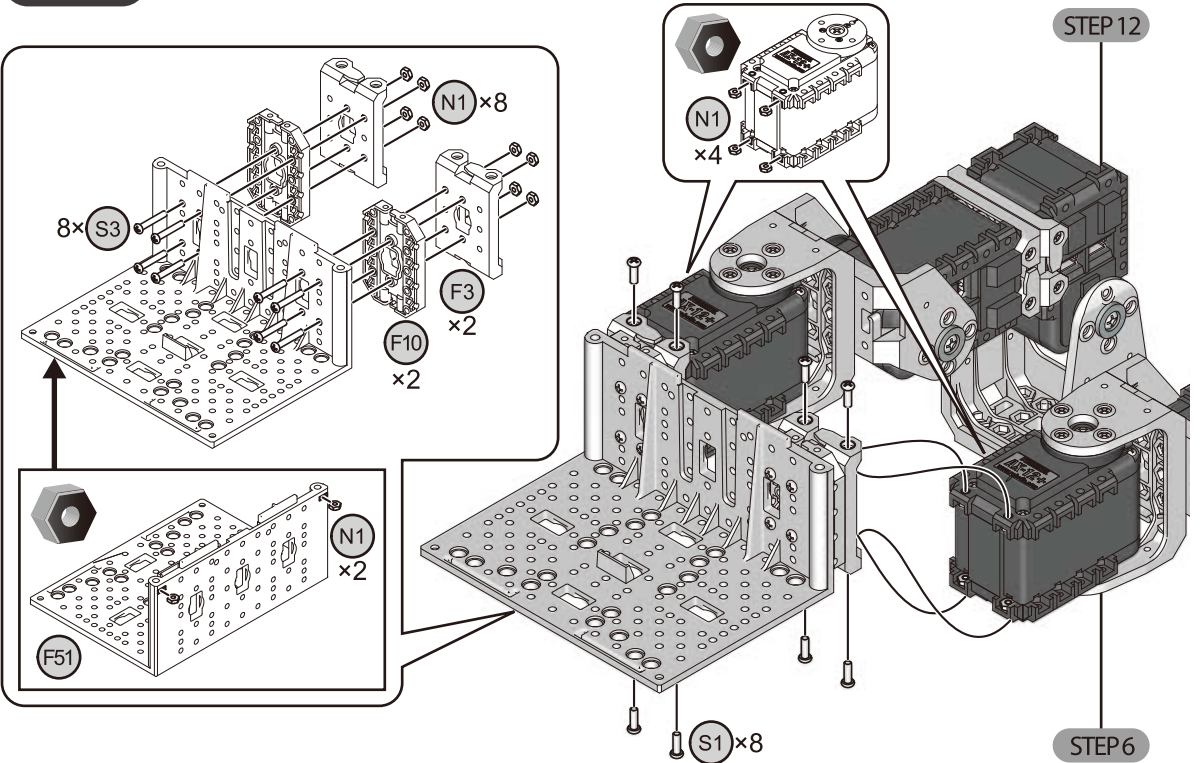


STEP 10

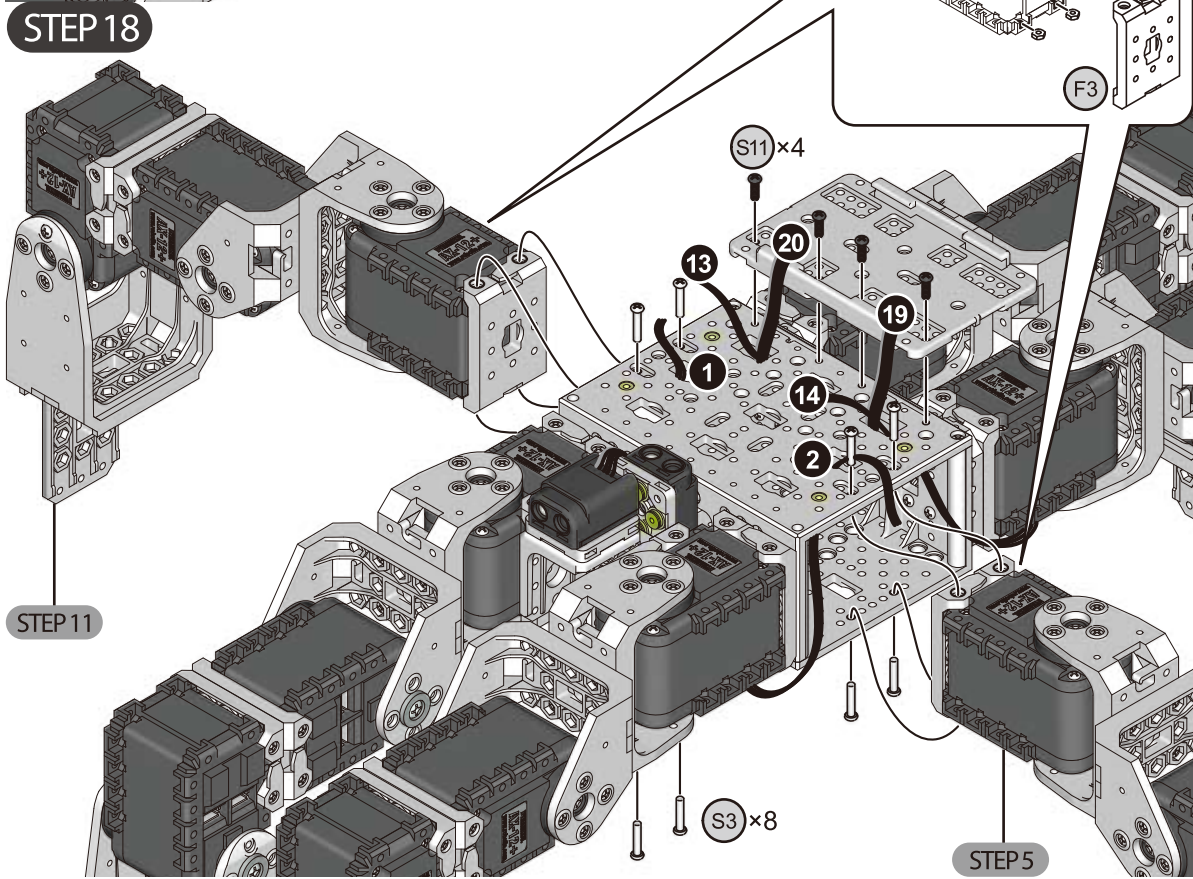
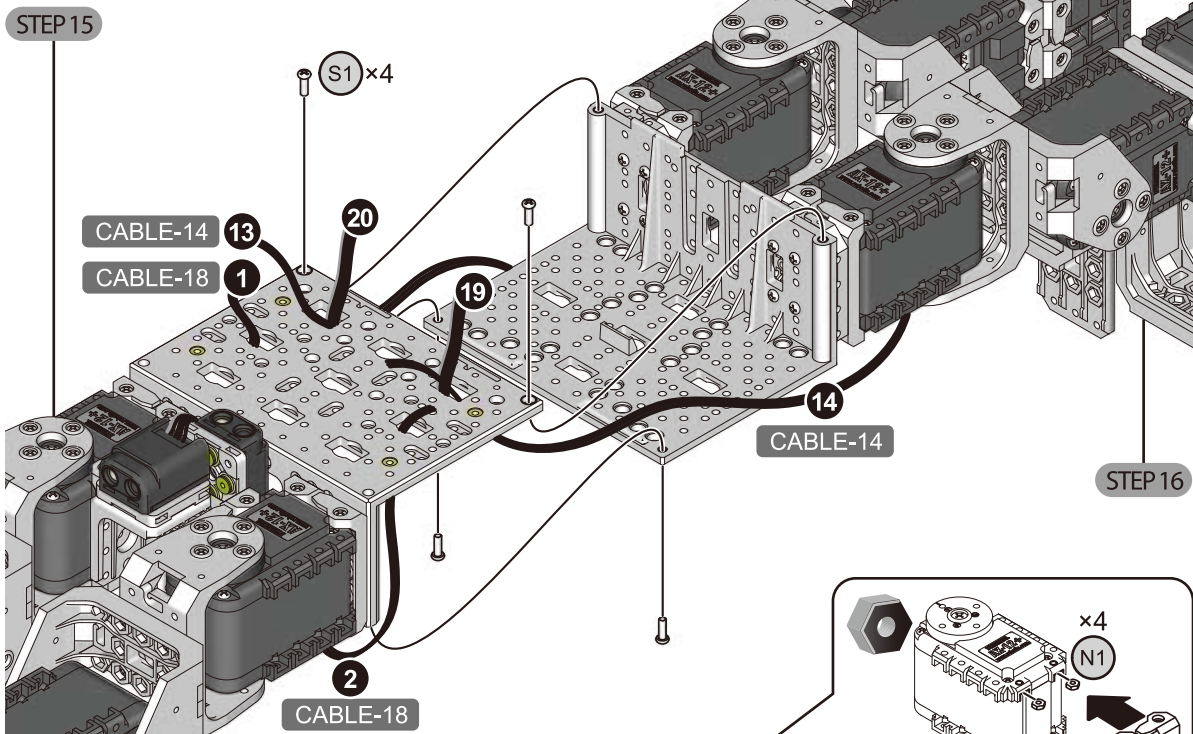
STEP 15



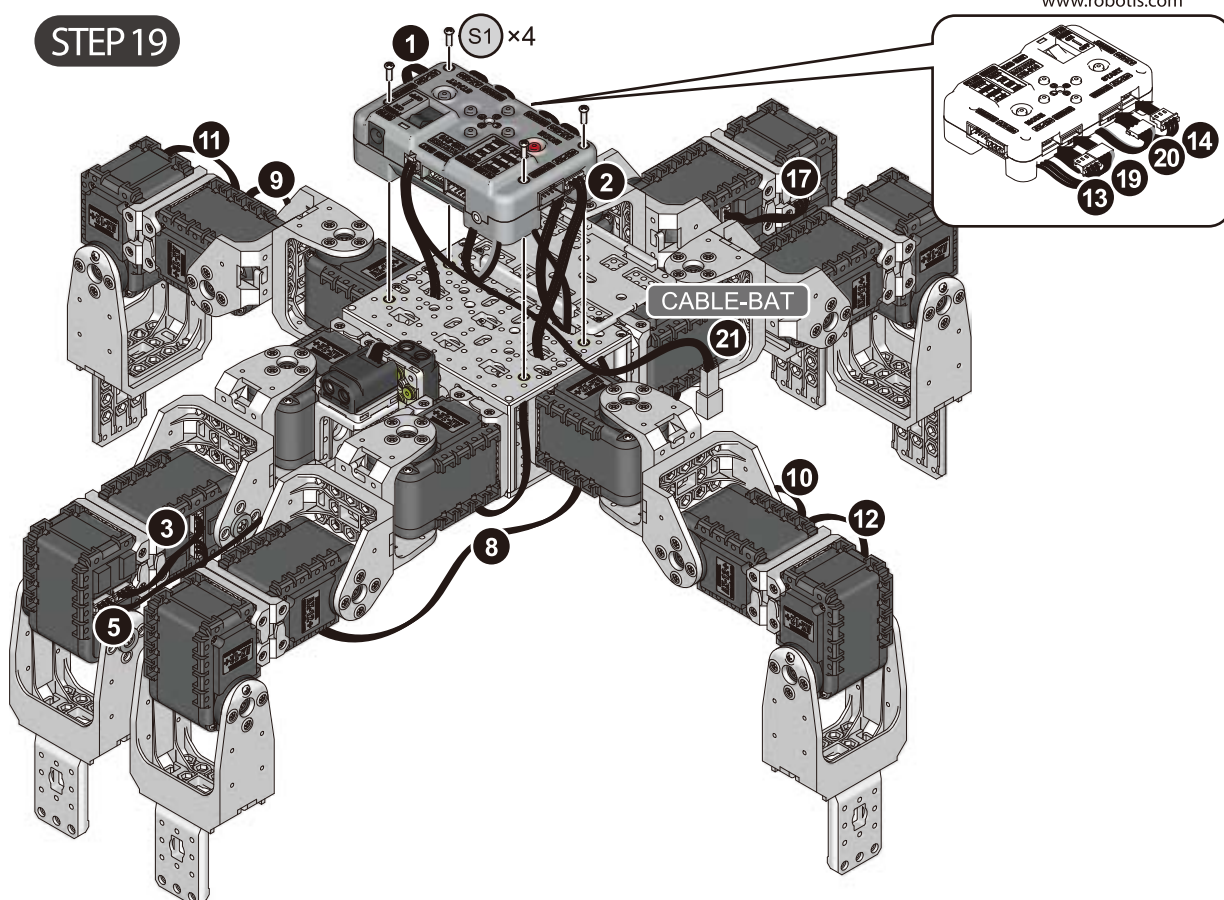
STEP 16



STEP 17



STEP 19



ID 1 motor	◀ 1 CABLE-18 ▶	CM-510
ID 2 motor	◀ 2 CABLE-18 ▶	CM-510
ID 3 motor	◀ 3 CABLE-6 ▶	ID 5 motor
ID 4 motor	◀ 4 CABLE-6 ▶	ID 6 motor
ID 5 motor	◀ 5 CABLE-20 ▶	ID 1 motor
ID 6 motor	◀ 6 CABLE-20 ▶	ID 2 motor
ID 7 motor	◀ 7 CABLE-20 ▶	ID 3 motor
ID 8 motor	◀ 8 CABLE-20 ▶	ID 4 motor
ID 9 motor	◀ 9 CABLE-14 ▶	ID 7 motor
ID 10 motor	◀ 10 CABLE-14 ▶	ID 8 motor

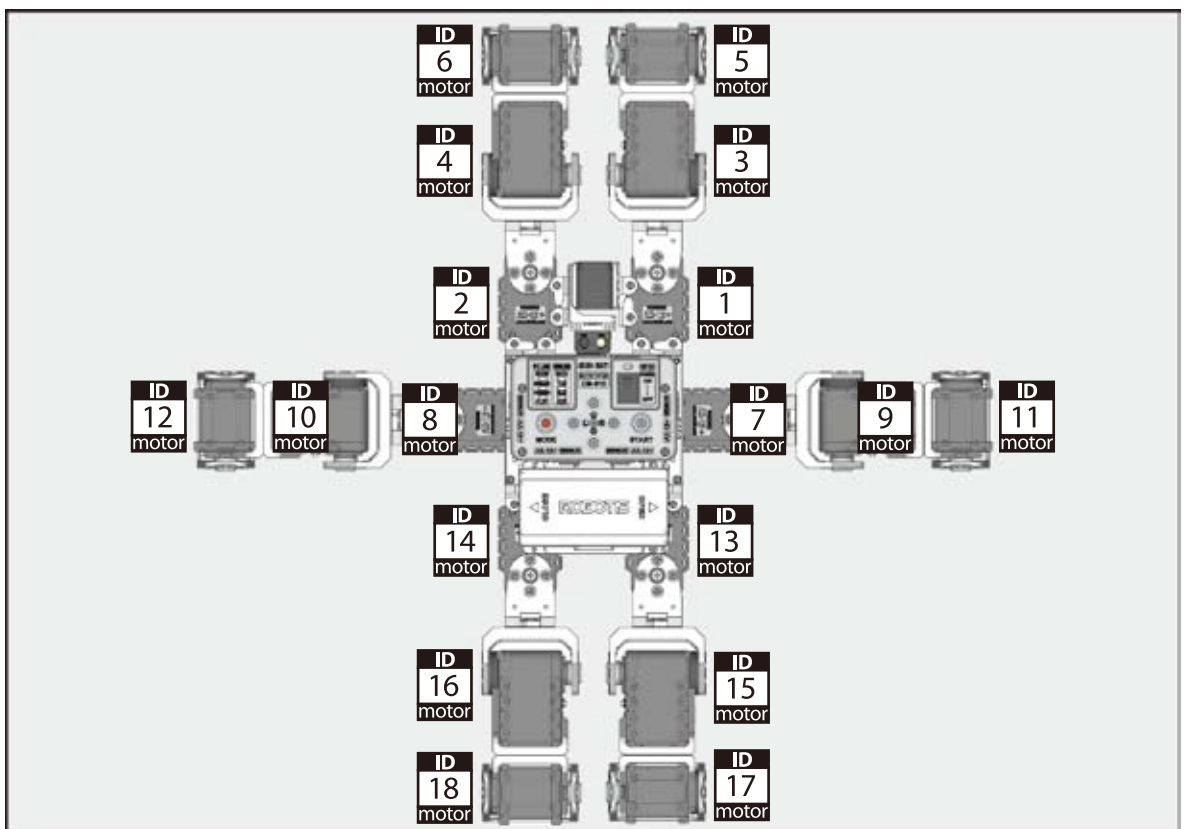
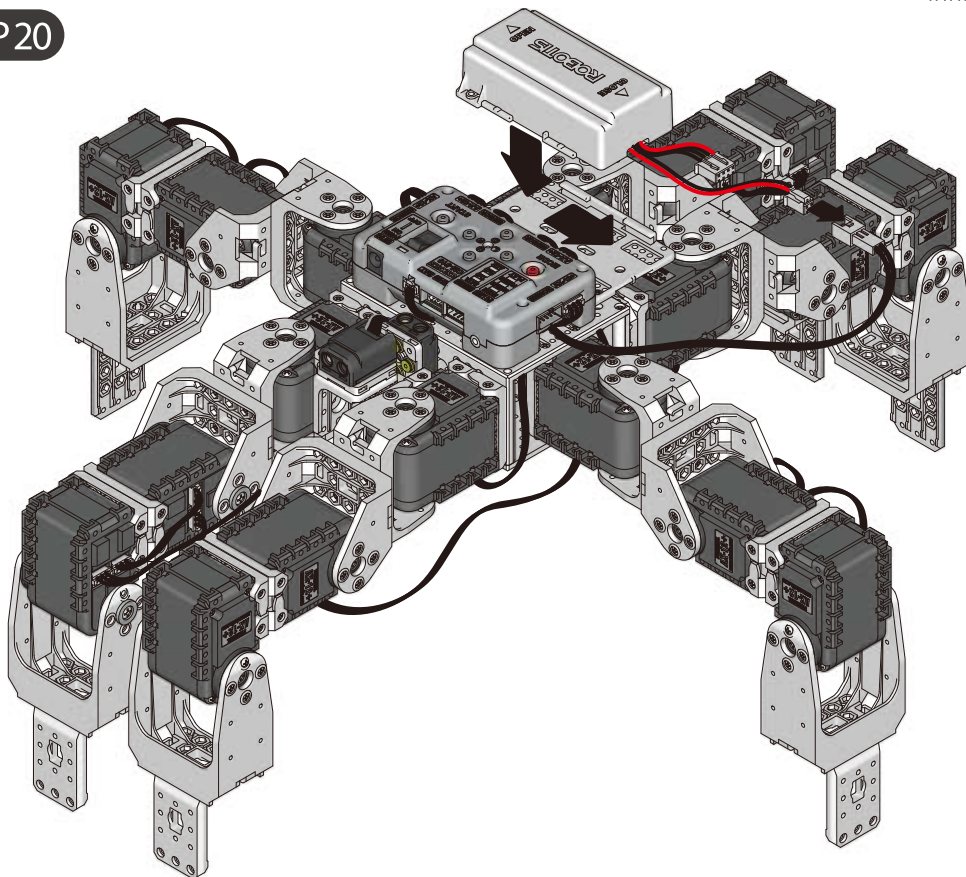
ID 11 motor	◀ 11 CABLE-6 ▶	ID 9 motor
ID 12 motor	◀ 12 CABLE-6 ▶	ID 10 motor
ID 13 motor	◀ 13 CABLE-14 ▶	CM-510
ID 14 motor	◀ 14 CABLE-14 ▶	CM-510
ID 15 motor	◀ 15 CABLE-14 ▶	ID 13 motor
ID 16 motor	◀ 16 CABLE-14 ▶	ID 14 motor
ID 17 motor	◀ 17 CABLE-6 ▶	ID 15 motor
ID 18 motor	◀ 18 CABLE-6 ▶	ID 16 motor

IR SENSOR-1 ◀ 19 5P-CABLE 15 ▶ CM-510 PORT 3

IR SENSOR-2 ◀ 20 5P-CABLE 15 ▶ CM-510 PORT 4

CM-510 ◀ 21 CABLE-BAT ▶ BAT

STEP 20



Assembly Check

After assembly, please check the following procedure to ensure correctness.

STEP 1

Run the assembly check program

Set the robot in **PLAY** mode; hold the **D** button then press **START**.

Once the **START** button is pressed, the assembly check program begins.

STEP 2

AX12+ initial position and ID check

Select each actuator separately and compare it to the picture below.

Ensure the actuators' horns are properly aligned (the horn's notch should be aligned with the actuator's).

Pressing the **U** or **D** button selects one actuator at a time.

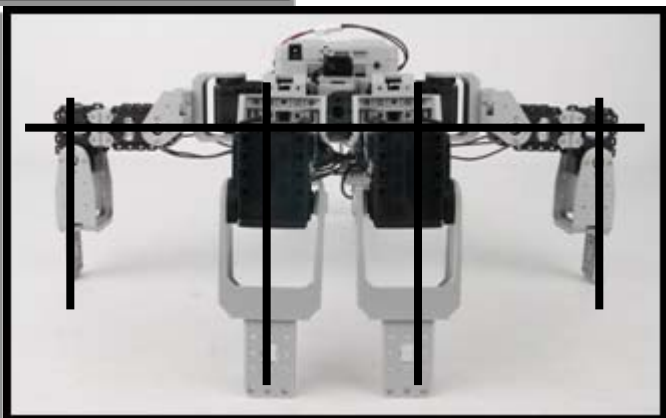
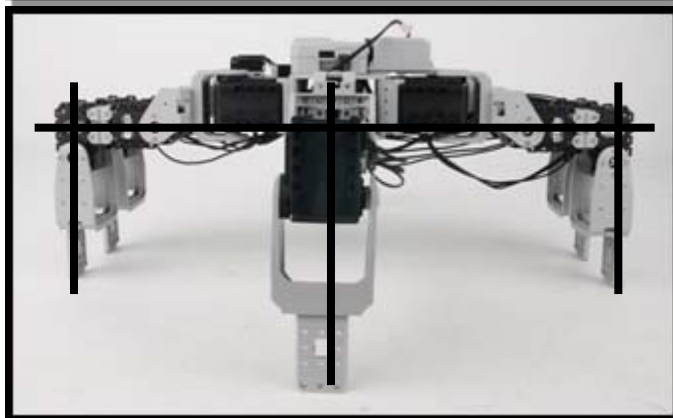
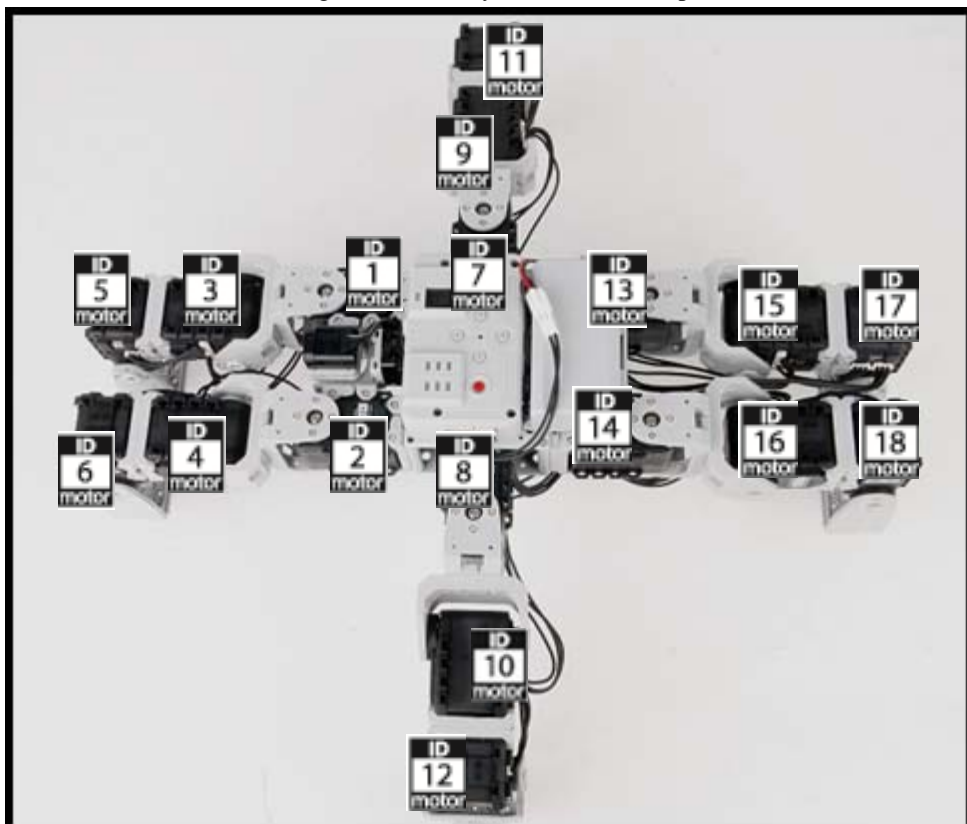
The selected actuator's LED lights up and goes to its initial position.

Check starts from ID1.

U moves to the next ID in ascending numerical order; **D**, in descending numerical order.

If the actuator's ID does not exist, then the robot beeps.

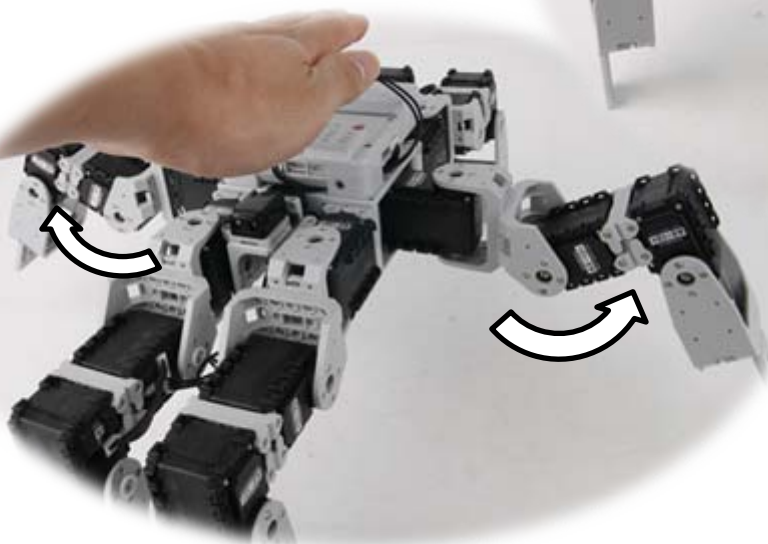
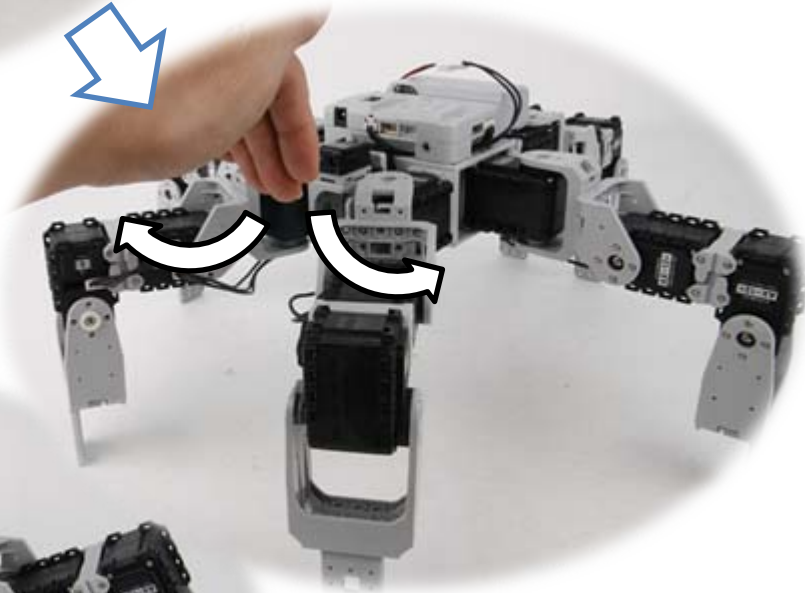
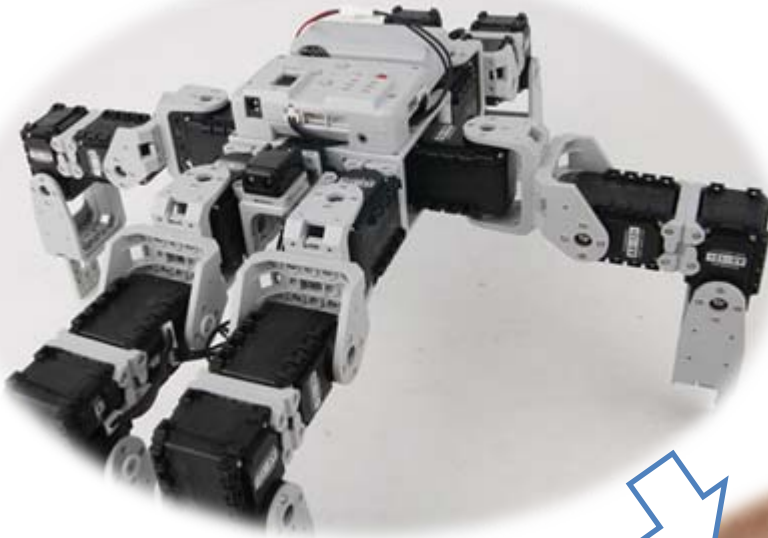
Although the LED may lit, if there is no power, then check the wiring on the actuator.



STEP 3

Sensor and behavior check

From STEP② press **R**. The robot returns to its initial position as pictured above. Place your hand close to the sensors, as pictured below. Then, robot behavior begins. If the robot does not behave as pictured below, then check the sensor wiring and its port. Pressing **L** will return the robot back to STEP②.



STEP 4

If everything works fine, play the robot.

Set the robot in **PLAY** mode, press **START** and the robot will play.