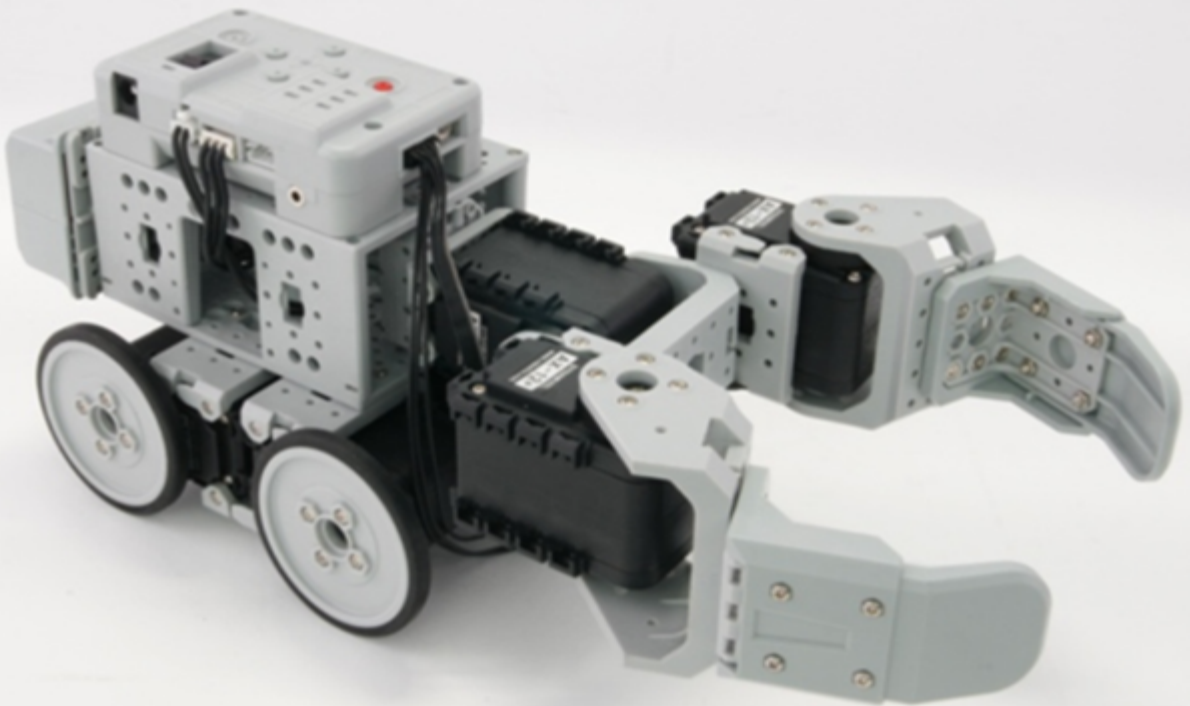


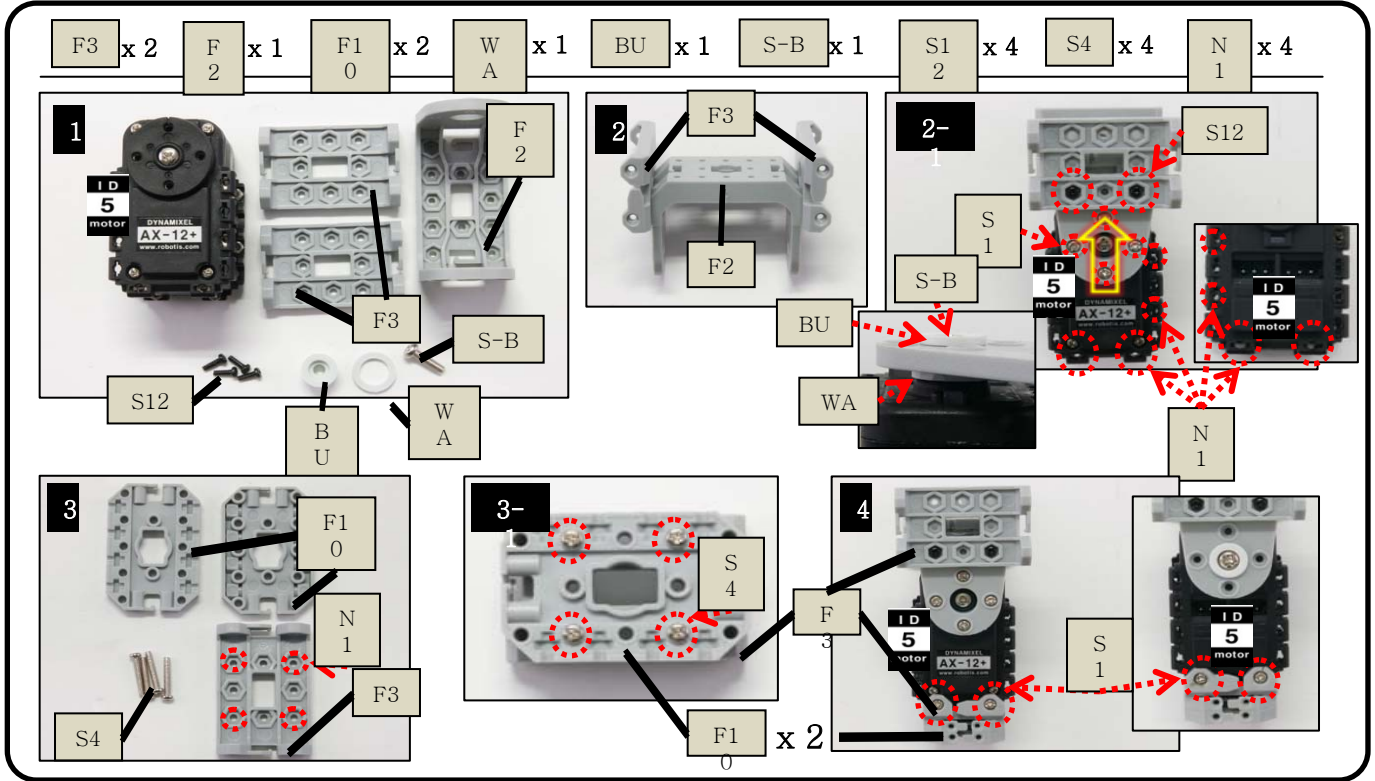
Bioloid Premium Kit Probing Robot Assembly Manual



Bioloid Probind Robot – Getting Started

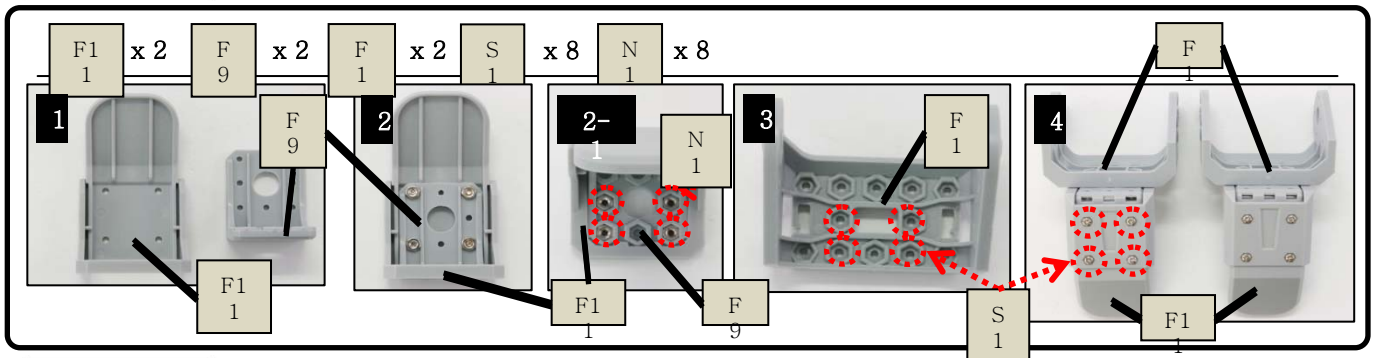
STEP 1

Attach ID5, F2, F3, and F10 together. (do not misalign horn position)



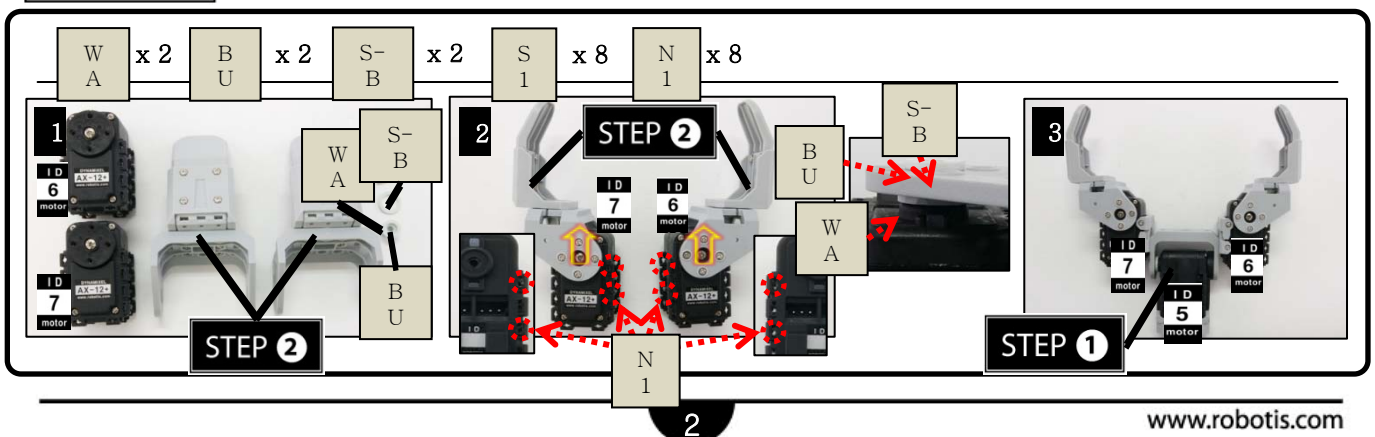
STEP 2

Attach F1, F9, and F11 together.



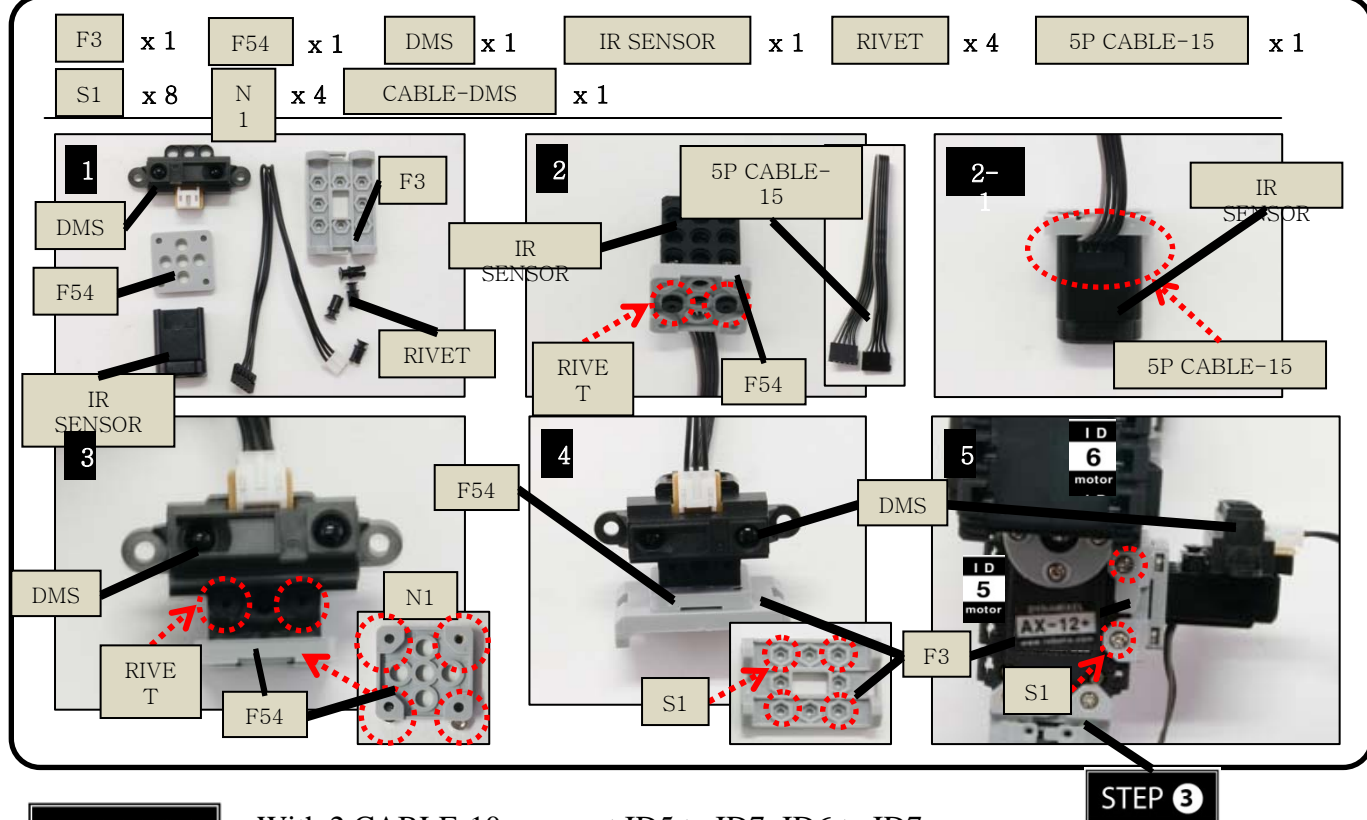
STEP 3

Attach STEP①, STEP②, ID6, and ID7 together. (do not misalign horn position)



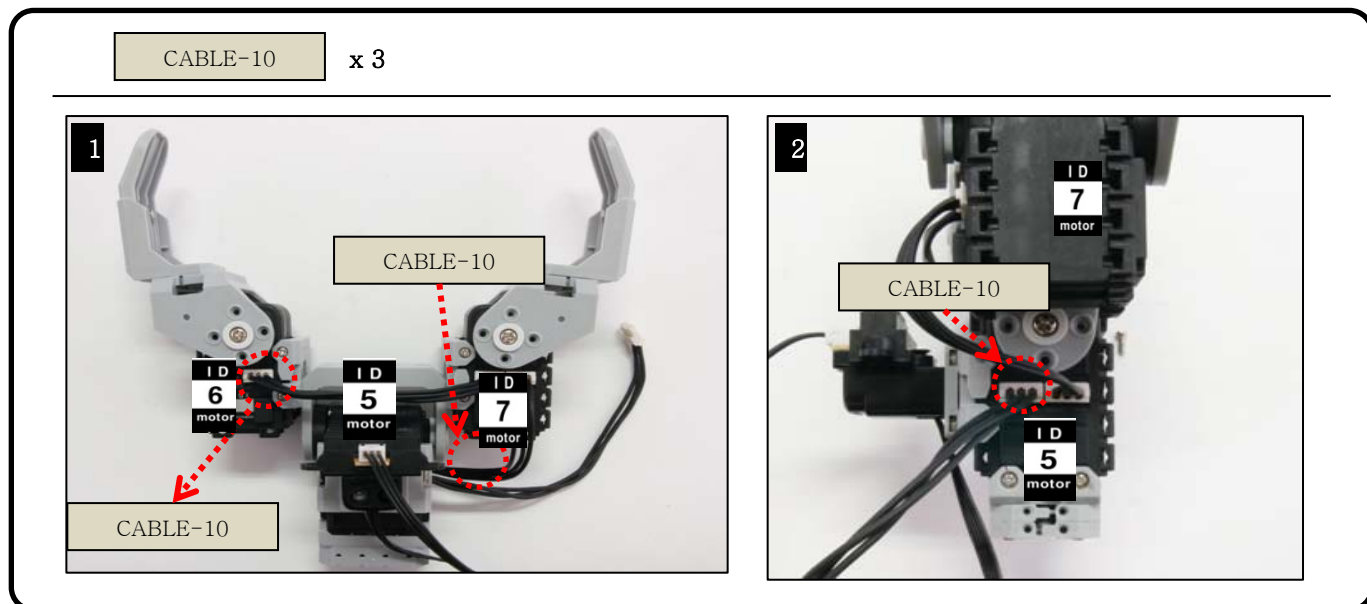
STEP 4

Attach STEP③, F3, F54, IR SENSOR, and DMS together.



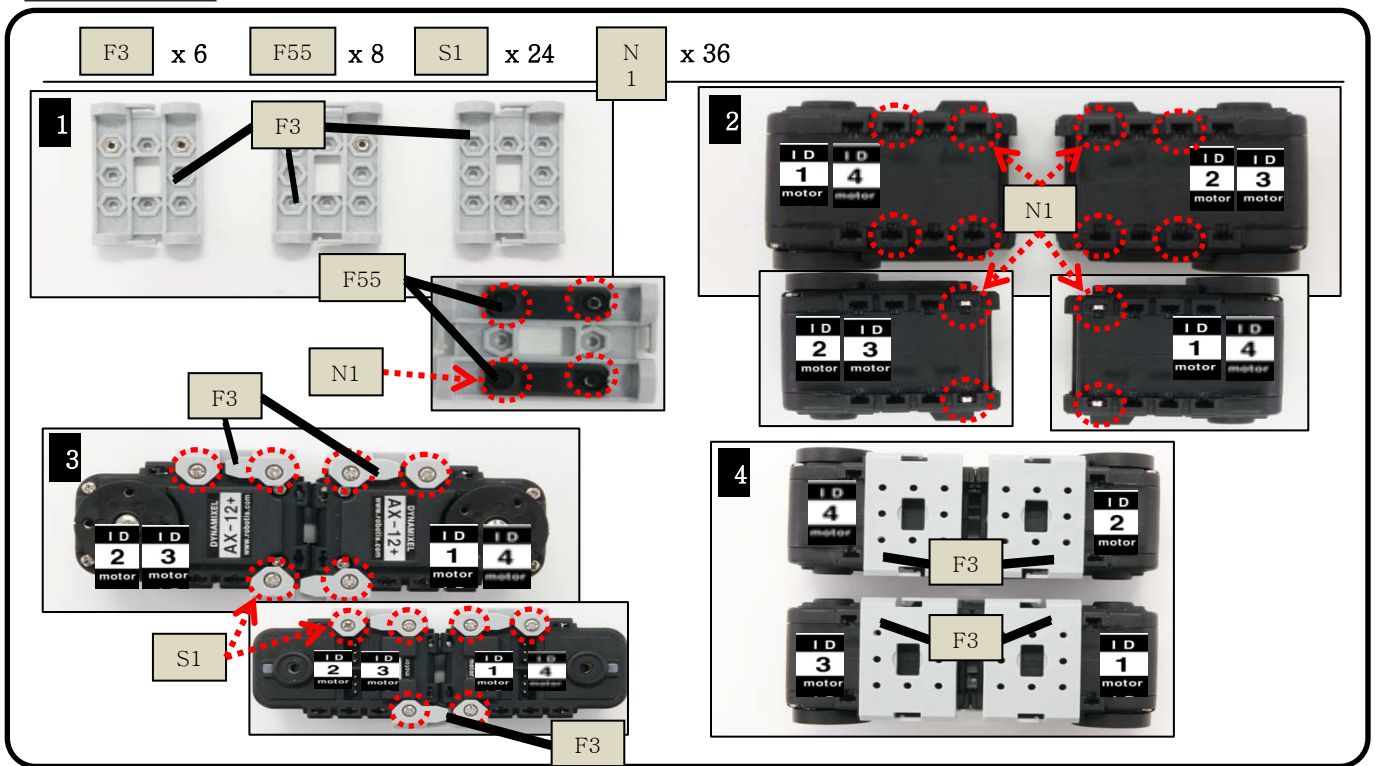
STEP 5

With 2 CABLE-10, connect ID5 to ID7; ID6 to ID7.
Connect ID5 with CABLE-10



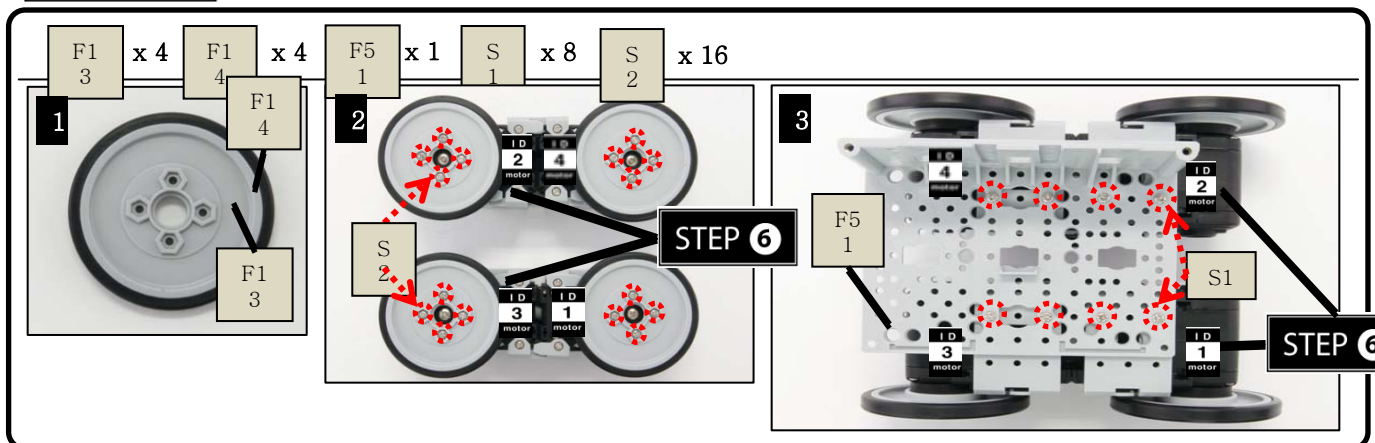
STEP 6

Attach ID1 through ID4, F3, and F55 together.



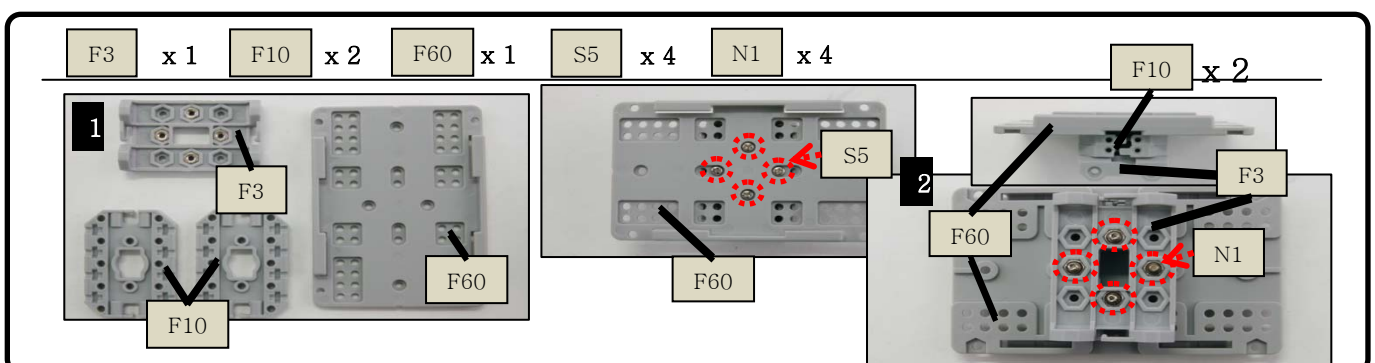
STEP 7

Attach STEP 6, F13, F14, and F51 together.



STEP 8

Attach F3, F10, and F60 together.



STEP 9

Attach STEP⑤, STEP⑦, and STEP⑧ together.

Connect ID4 to ID5 with CABLE-10.

With 3 CABLE-6, connect ID2 to ID4; ID1 to ID2; ID1 to ID3.

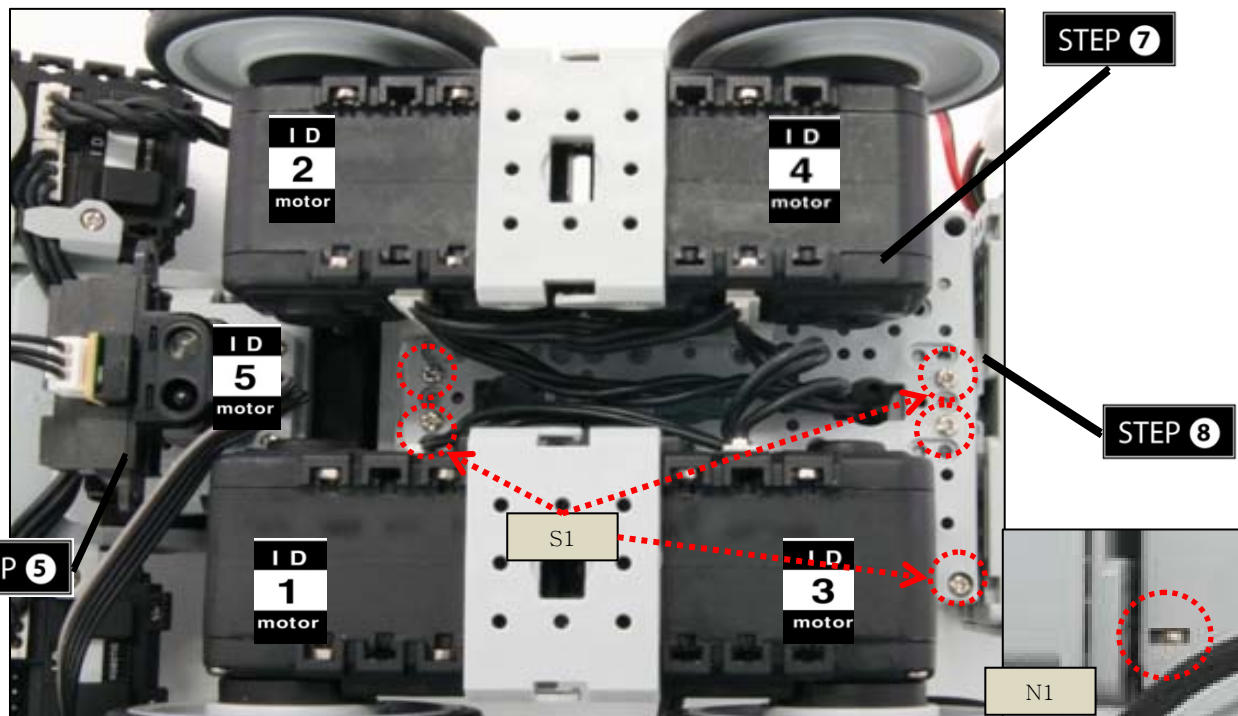
Connect ID 3 with CABLE-20.

CABLE-6 x 3

CABLE-6 x 3

S1 x 5

N1 x 1



STEP 10

Attach STEP⑨, F52, and CM-510 together.

Connect ID3 to CM-510 with CABLE-20.

Connect IR SENSOR to Port 2 of CM-510 with 5P CABLE-15.

Connect DMS to Port 1 of CM-510 with CABLE-DMS.

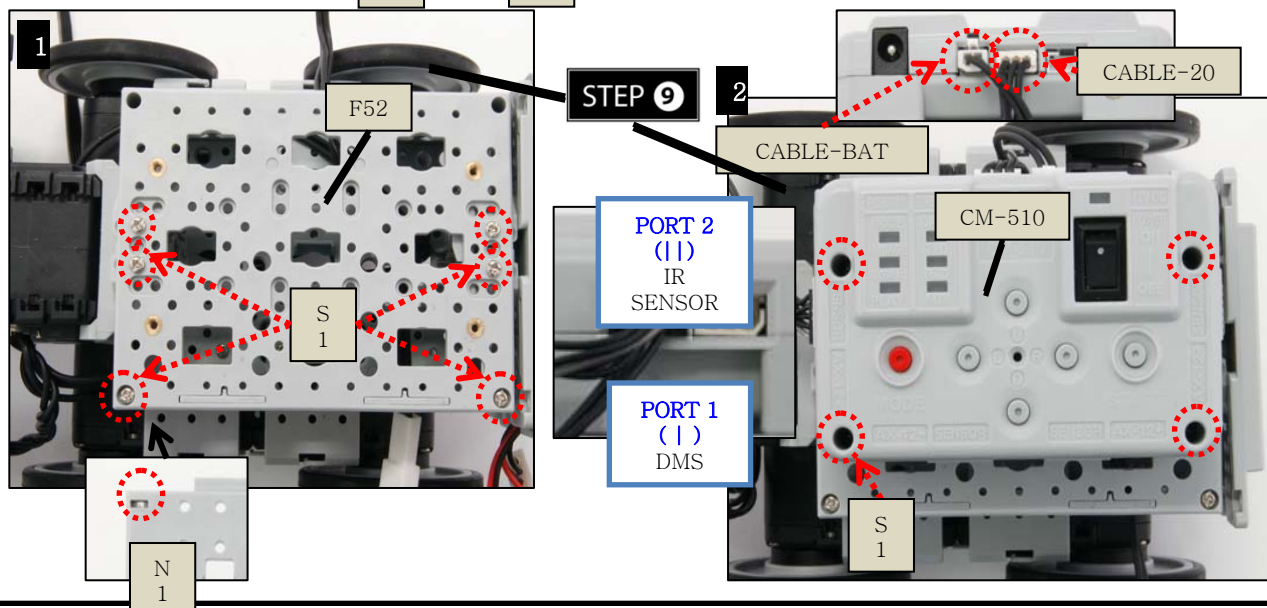
F52 x 1

CM-510 x 1

S1 x 10

N1 x 4

CABLE-BAT x 1



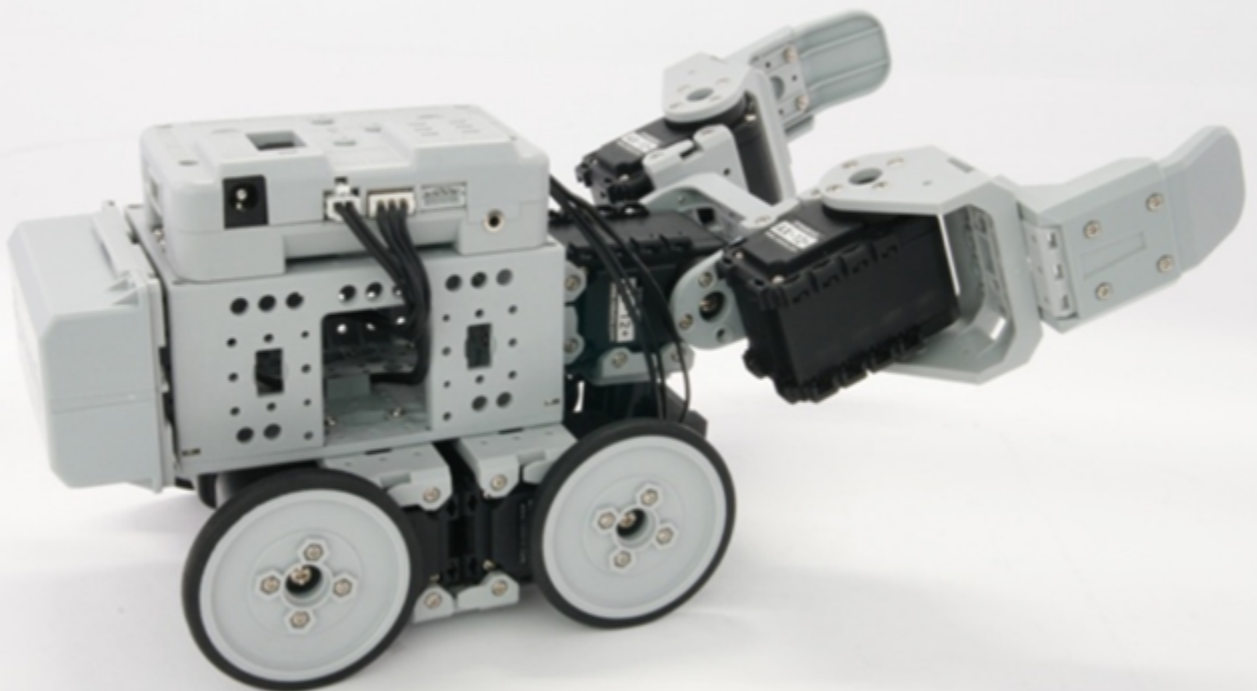
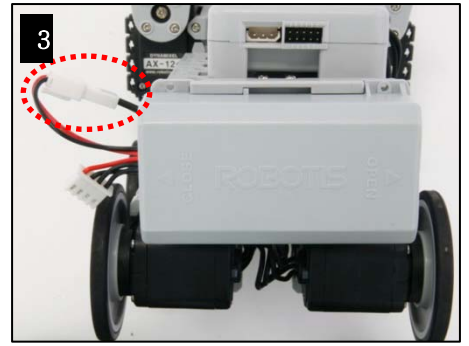
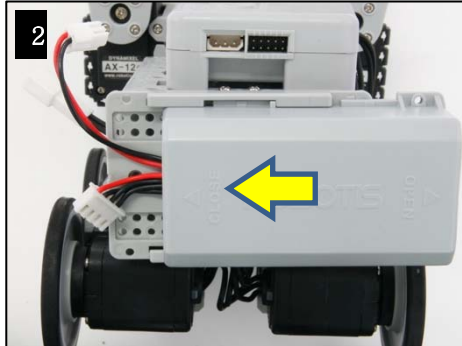
STEP 11

Connect the battery through the battery cable.

BATTERY x 1



BATTERY



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.

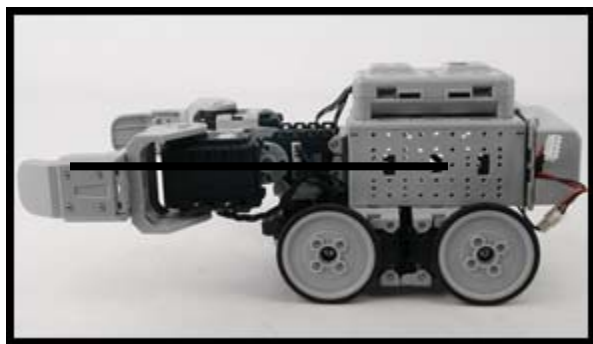
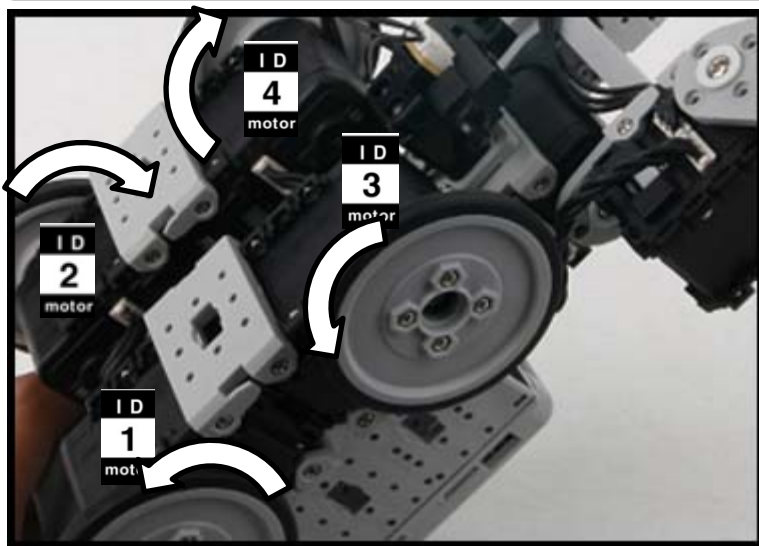
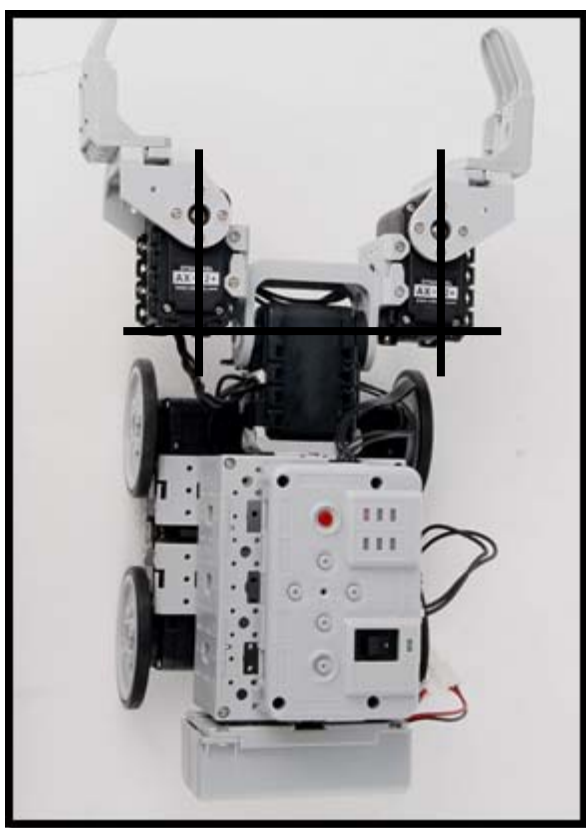
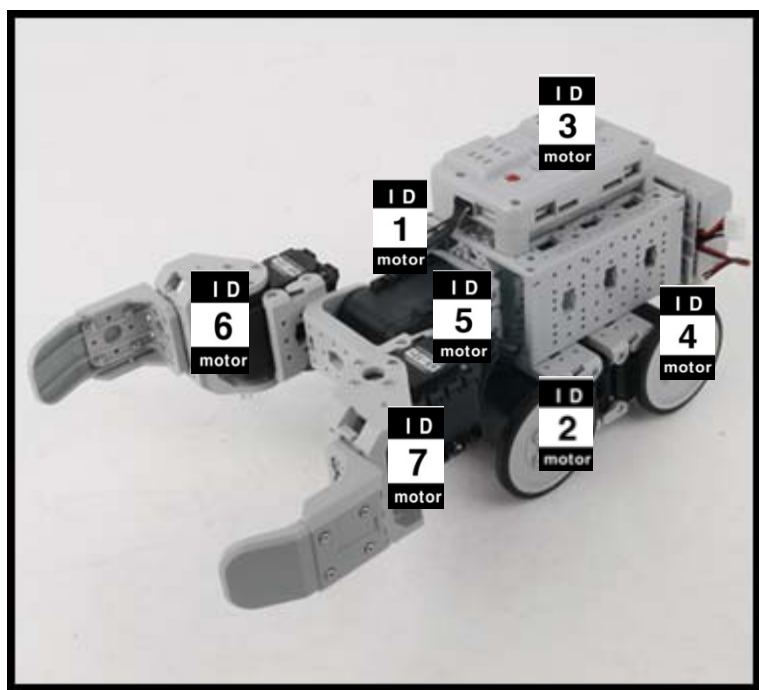
The selected actuator's LED lights up and goes to its initial position.

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

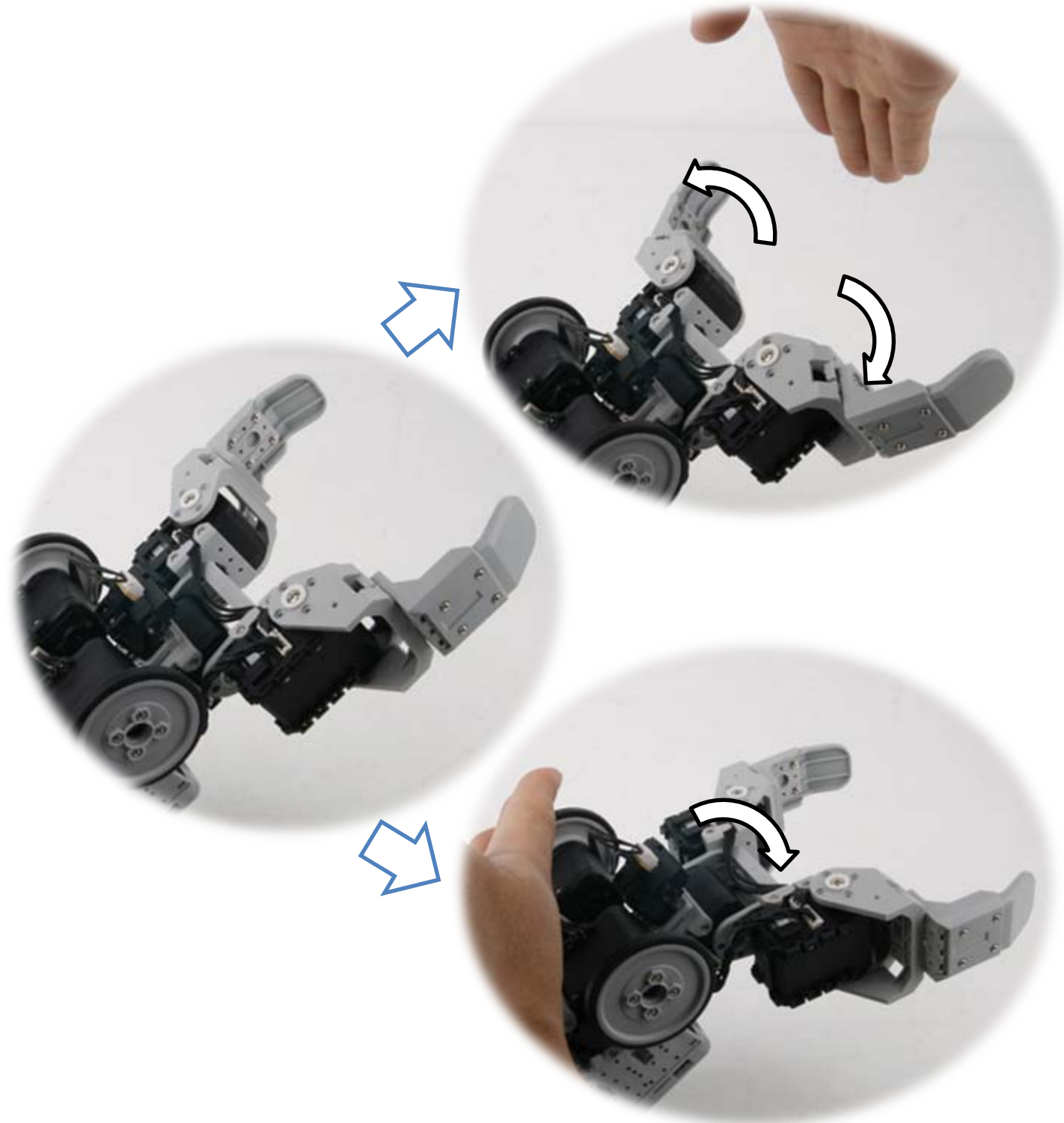
Sensor and behavior check

From STEP② press **R**. The robot returns to its initial position as pictured above.

Place your hand close to the sensors as pictured below. 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 and press **START**. The robot will play