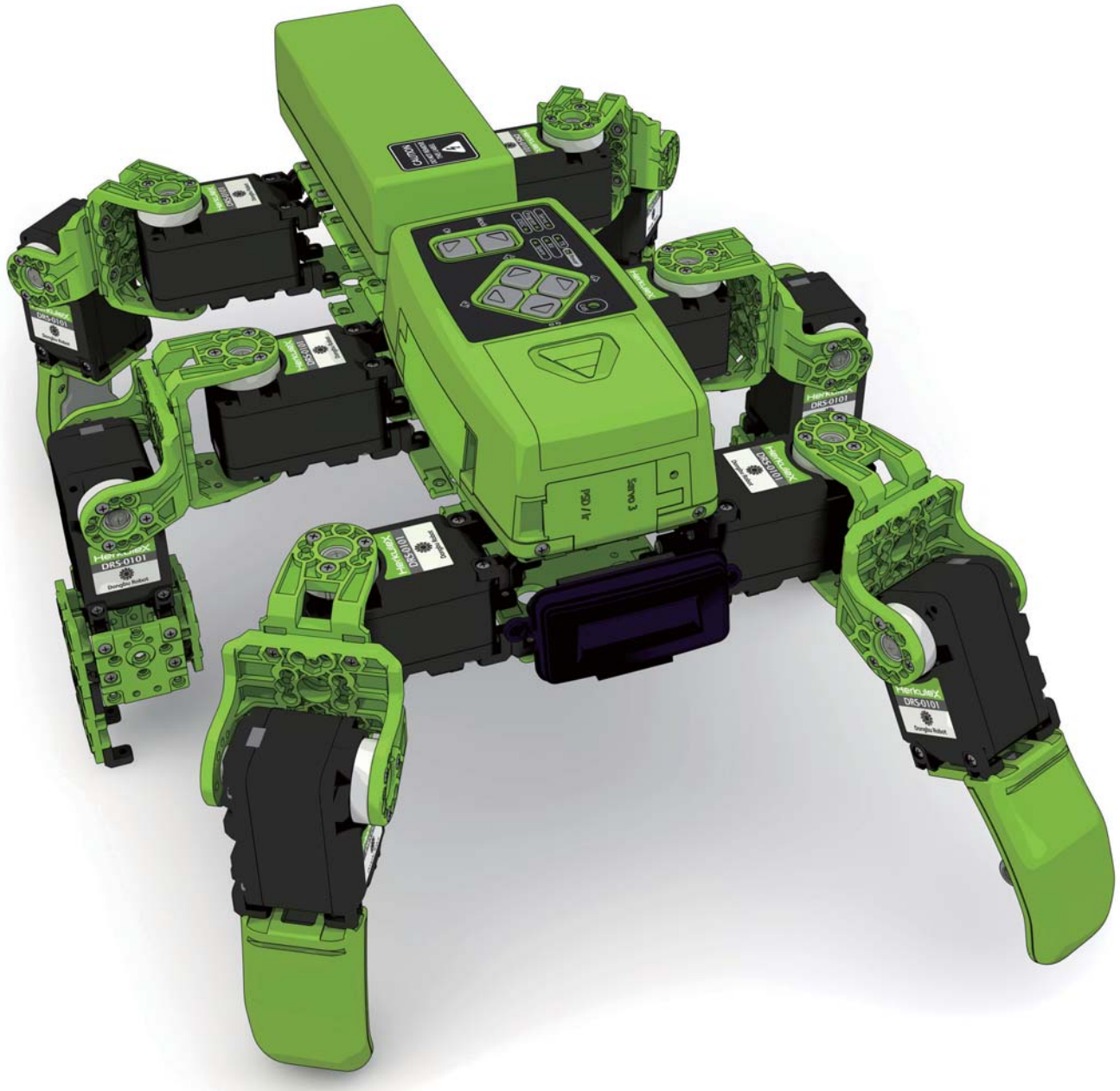
Version 1.0
March, 2013

HOVIS Lite

응용모델 조립 매뉴얼

12자유도 6족 보행로봇



Dongbu Robot

호비스 라이트 응용모델 조립 매뉴얼

12자유도 6족 보행로봇 부품리스트

HOVIS Lite

X12 **DRS-0101** HerkuleX Servo (Horn 체결)

X4 **DRB-0001** Front / Back

X4 **DRB-0002** Hand

X12 **DRB-0004** Universal Plate

X6 **DRB-0009** U2-type Bracket

X6 **DRB-0011** U4-type Bracket

X1 **DRB-0007** Battery Case & Holder

X1 **DRL-0728** 7.4V Li-Po Battery (3,000mA)

X1 **DRC-005T** Controller

X1 **DRI-0004** IR Receiver

X1 **DRI-0008** PSD Sensor

X102 **DRJ-0001** L-type Joint (Single Nut)

X8 **DRJ-0002** L-type Joint (Double Nut)

X2 **DRJ-0003** L-type Joint (Hole only)

X4 **DRJ-0006** I-type Joint (12.5mm, Double Nut)

X6 **DRJ-0007** I-type Joint (16.0mm, Hole only)

X10 **DRJ-0011** Bushing Set

1:1 SCALE

X24 **DRA-0051** Nut (M2)

X4 **DRA-0054** Bolt (PH/M 2.0X13)

X62 **DRA-0056** Bolt (PH/M 2.0X4)

X128 **DRA-0058** Bolt (PH/M 2.0X6)

X8 **DRA-0059** Bolt (PH/M 2.0X8)

X10 **DRA-0062** Bolt (PH/M 3.0X8)

X12 **DRA-0063** Bolt (CH/T 2.0X4)

X30 **DRA-0064** Bolt (PH/T 2.0X5)

X12 **DRA-0069** Hand Bolt (CH/T 1.7X4)

X1 **DRA-0002** Harness (75mm)

X4 **DRA-0003** Harness (100mm)

12자유도 6족 보행로봇 부품리스트

HOVIS Lite

1:1 SCALE

x6 DRA-0006
Harness (200mm)

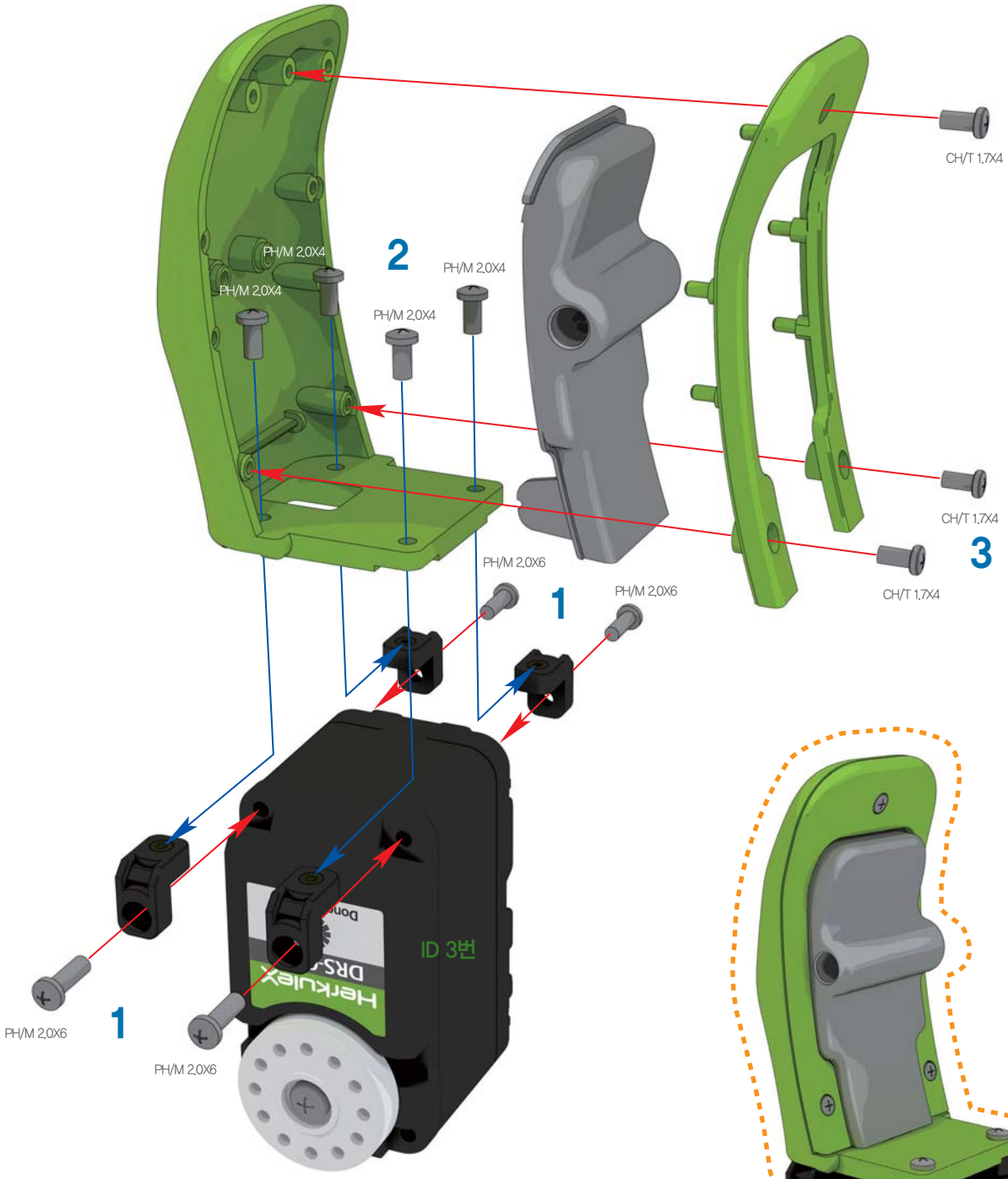
x1 DRA-0007
Harness (300mm)

x1 DRA-0021
PSD Harness 3pin (200mm)

x1 DRA-0027
IR Receiver Harness 3pin (150mm)

12자유도 6족 보행로봇

HOVIS Lite



※ 나머지 **1세트**(ID 11번)도 동일한 방법으로 조립합니다.
※ 나머지 **2세트**(ID 1번), (ID 9번)도 동일한 방법으로 조립하되,
그림에서 점선으로 표기한 발 부분은 대칭방향으로 조립합니다.
※ 조립 **순서**에 주의하여 조립합니다.

사용부품

DRS-0101 1개
HerkuleX Servo

DRB-0002 1개
Hand

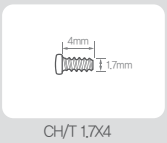
DRA-0069 3개
Bolt (CH/T 1.7X4)

DRA-0056 4개
Bolt (PH/M 2.0X4)

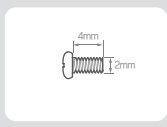
DRA-0058 4개
Bolt (PH/M 2.0X6)

DRJ-0001 4개
L-type Joint
(Single Nut)

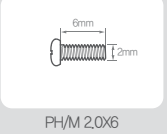
1:1 SCALE



CH/T 1.7X4



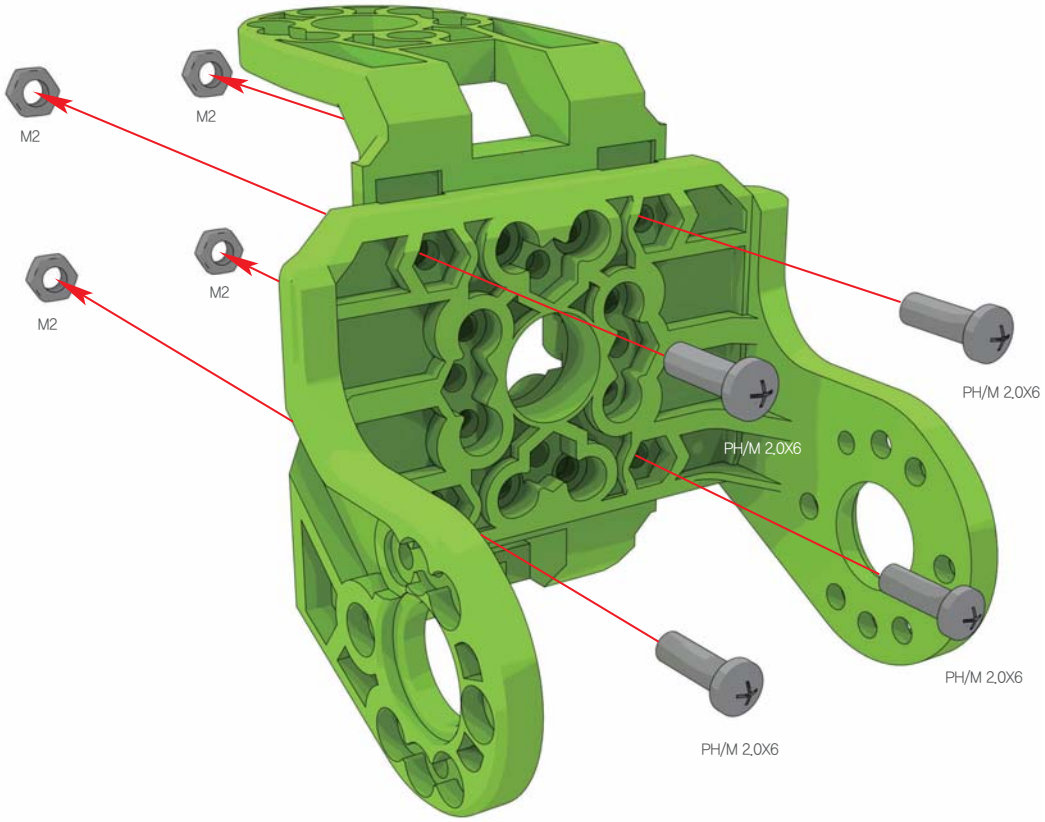
PH/M 2.0X4

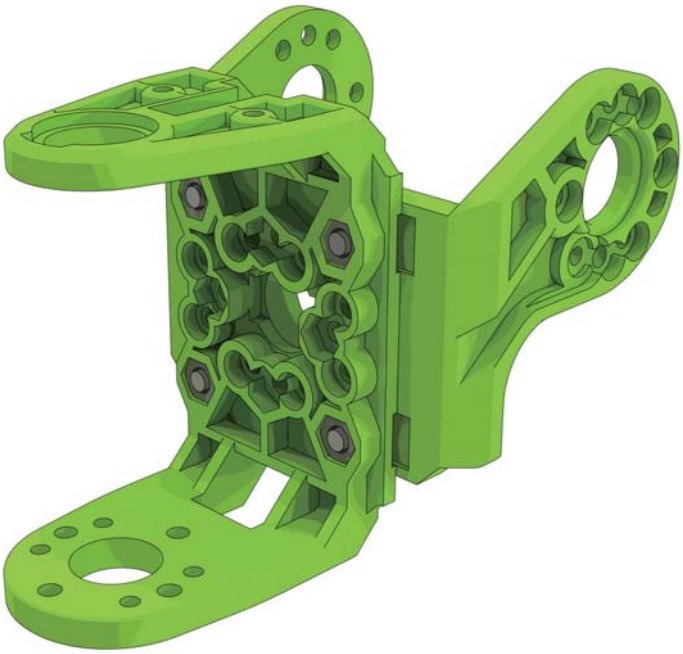


PH/M 2.0X6

12자유도 6족 보행로봇

HOVIS Lite





※ 나머지 **5세트**도 동일한 방법으로 조립합니다. (총 6세트 조립)

사용부품

DRA-0051 Nut (M2) 47개

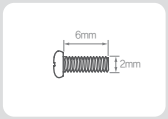
DRA-0058 Bolt (PH/M 2.0X6) 47개

DRB-0009 U2-type Bracket 1개

DRB-0011 U4-type Bracket 1개

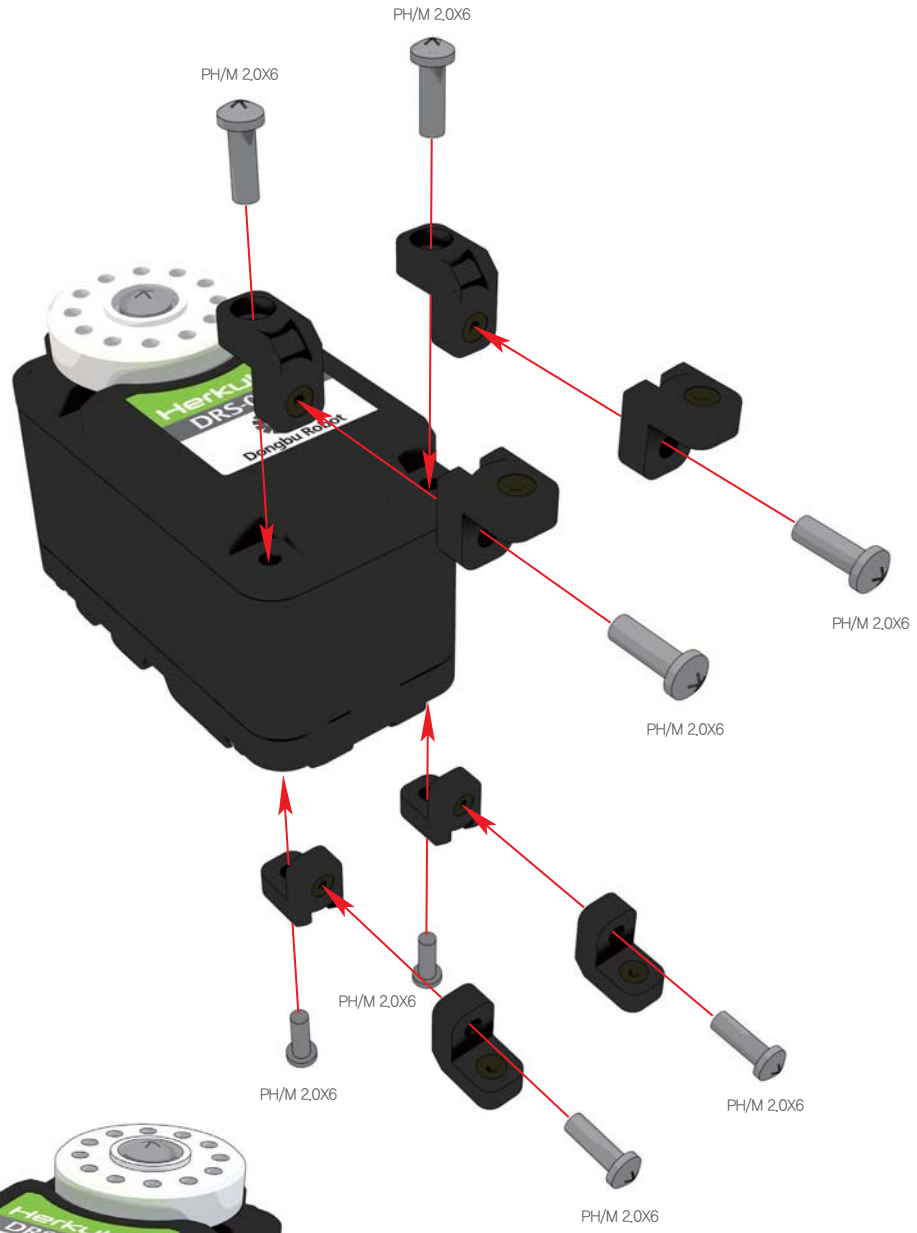
1:1 SCALE

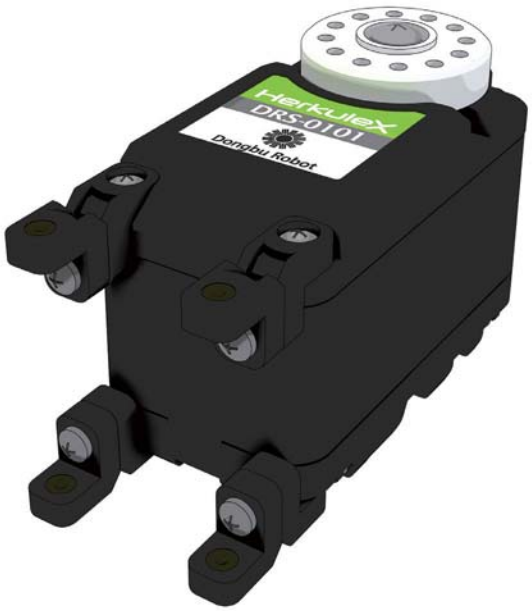
M2

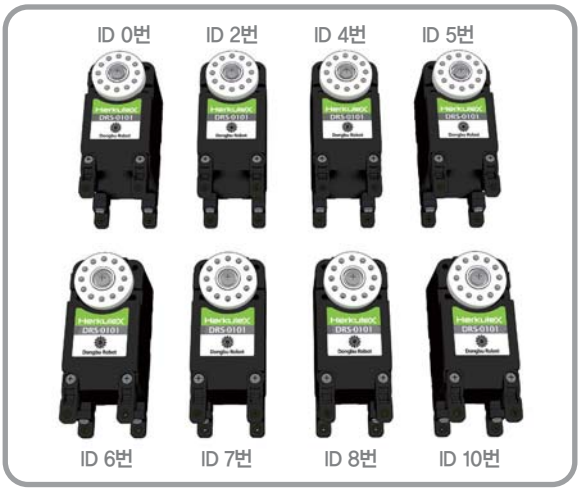


PH/M 2.0X6

12자유도 6족 보행로봇







※ 나머지 **7세트**도 동일한 방법으로 조립합니다.
(총 8세트[ID 0번, 2번, 4번, 5번, 6번, 7번, 8번, 10번] 조립)

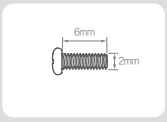
사용부품

DRS-0101 1개
HerkuleX Servo

DRA-0058 8개
Bolt (PH/M 2.0X6)

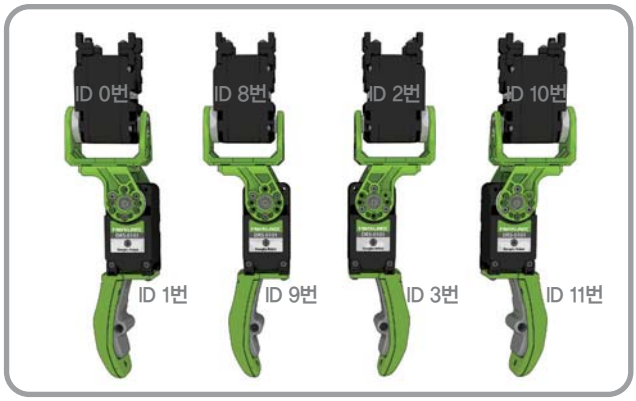
DRJ-0001 8개
L-type Joint
(Single Nut)

1:1 SCALE

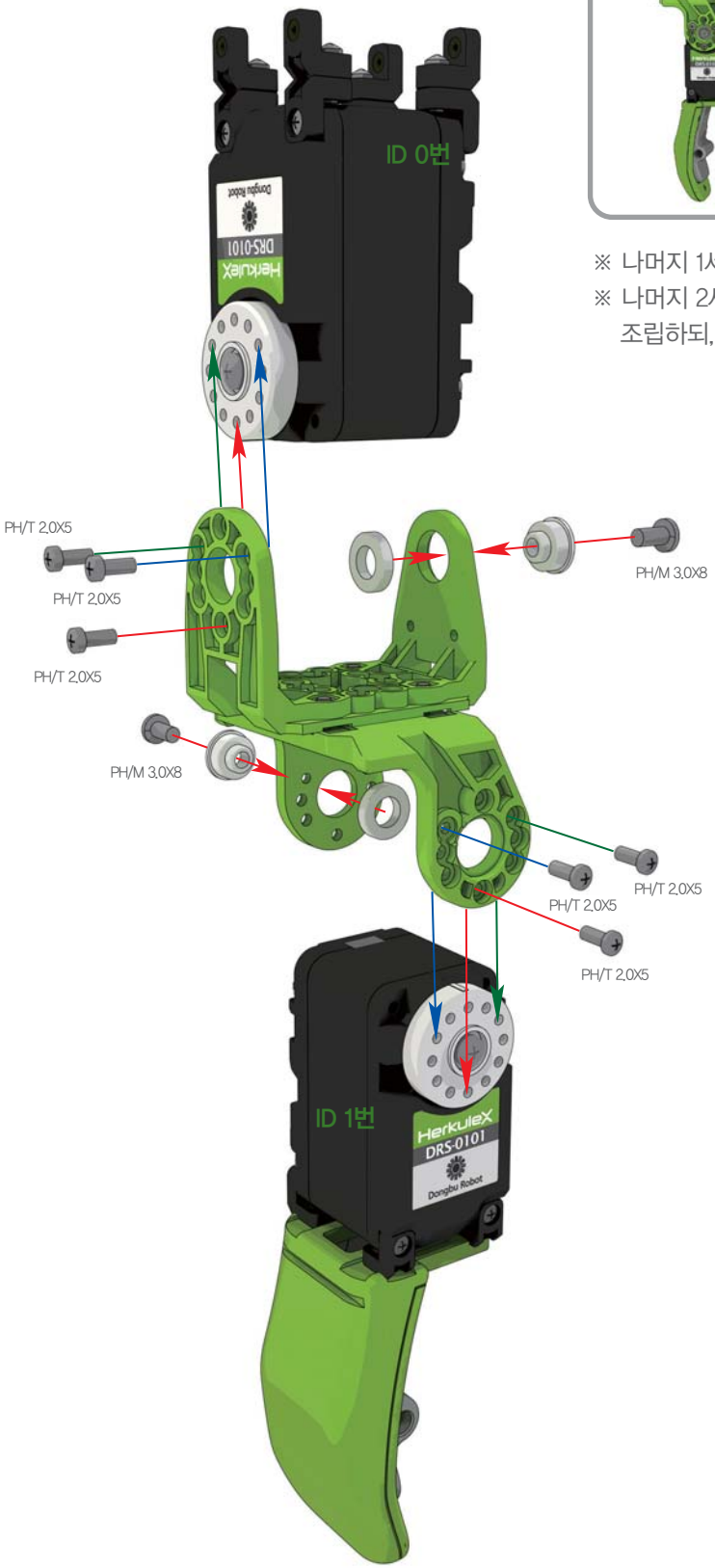


PH/M 2.0X6

12자유도 6족 보행로봇



※ 나머지 1세트(ID 8번, 9번)도 동일한 방법으로 조립합니다.
※ 나머지 2세트(ID 2번, 3번), (ID 10번, 11번)도 동일한 방법으로 조립하되, 조립체가 대칭방향이 되도록 조립합니다.



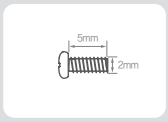
사용부품

DRA-0062
Bolt (PH/M 3.0X8) 2개

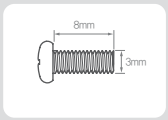
DRA-0064
Bolt (PH/T 2.0X5) 6개

DRJ-0011
Bushing Set 2개

1:1 SCALE

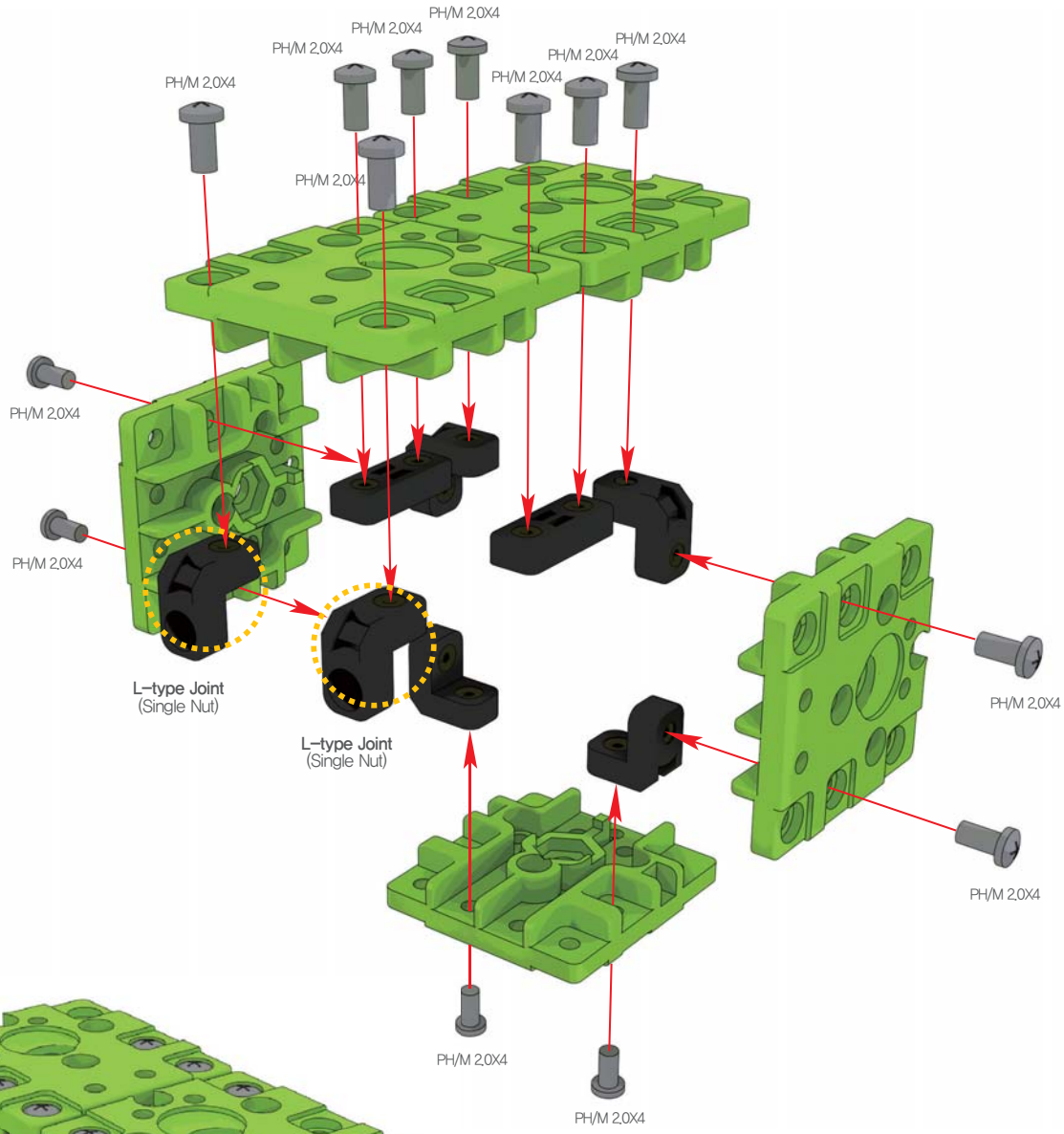


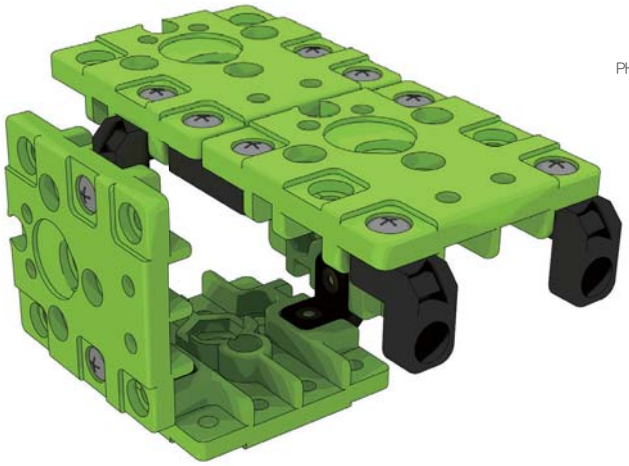
PH/T 2.0X5



PH/M 3.0X8

12자유도 6족 보행로봇





※ 나머지 **1세트**도 동일한 방법으로 조립합니다.
(총 2세트 조립)

사용부품

DRA-0056 14개
Bolt (PH/M 2.0X4)

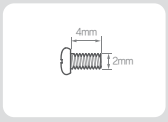
DRJ-0001 2개
L-type Joint
(Single Nut)

DRJ-0002 4개
L-type Joint
(Double Nut)

DRJ-0006 2개
I-type Joint
(12.5mm, Double Nut)

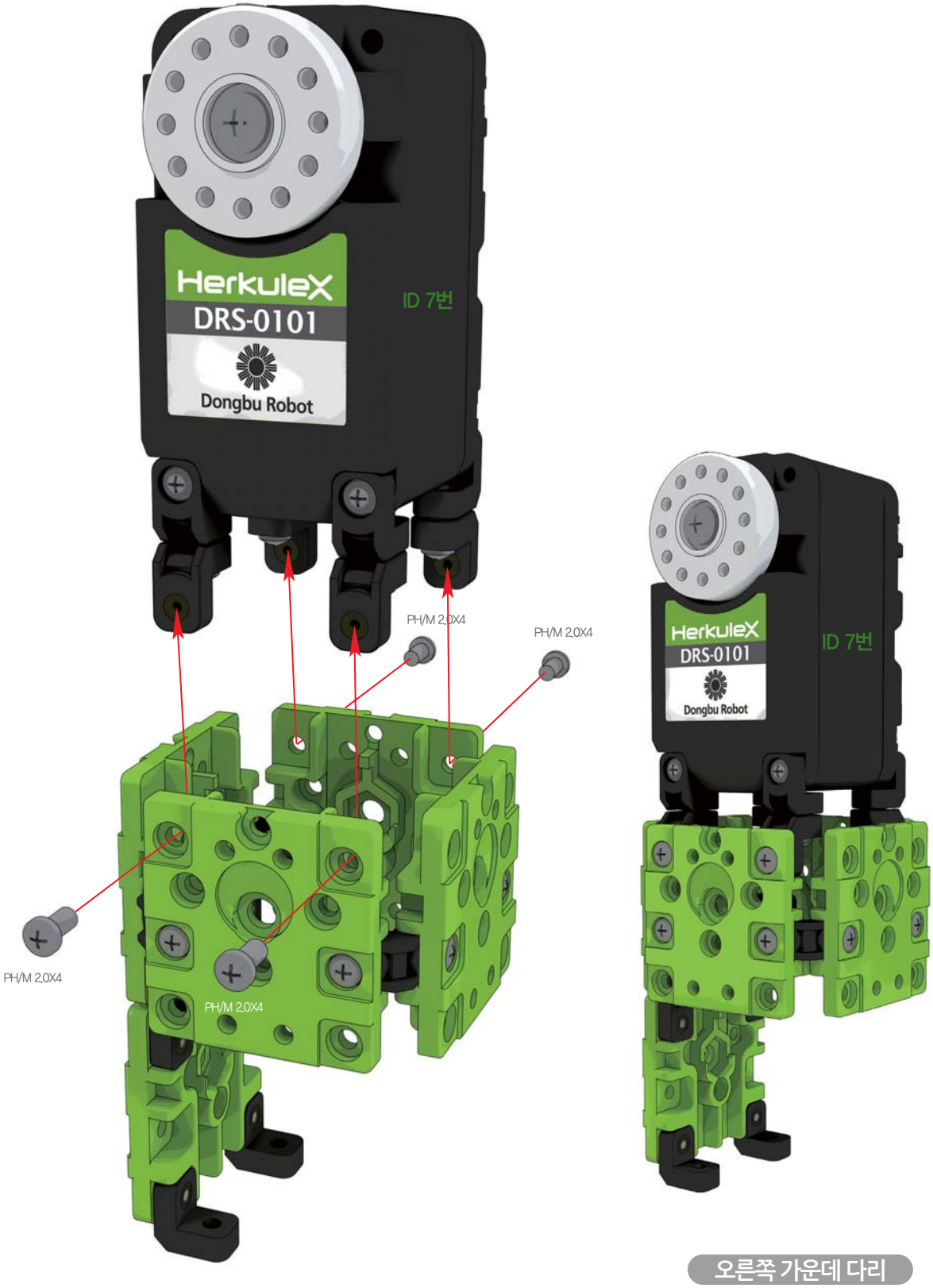
DRB-0004 5개
Universal Plate

1:1 SCALE



PH/M 2.0X4

12자유도 6족 보행로봇

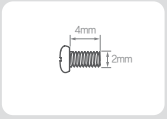


오른쪽 가운데 다리

사용부품

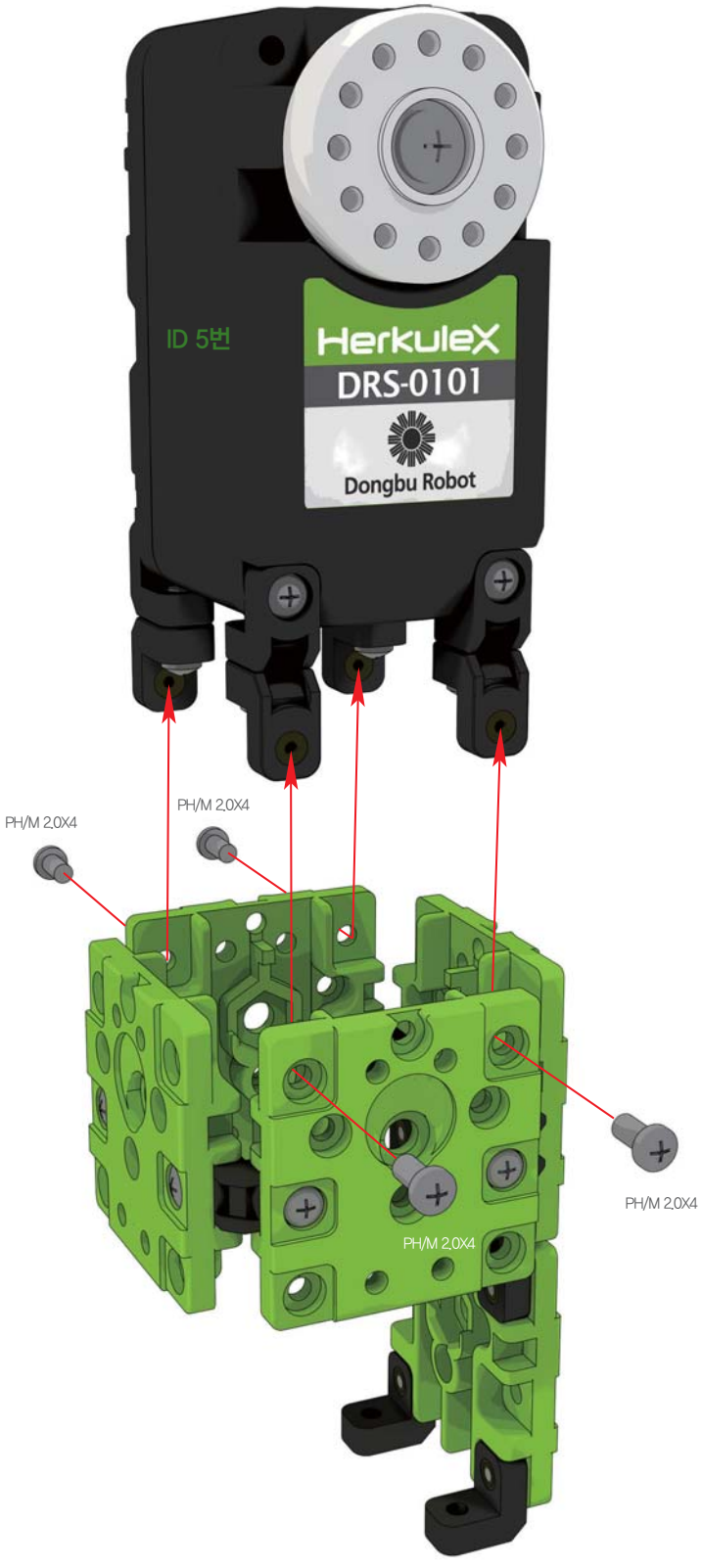
DRA-0056
Bolt (PH/M 2.0X4) 4개

1:1 SCALE



PH/M 2.0X4

12자유도 6족 보행로봇

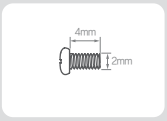


왼쪽 가운데 다리

사용부품

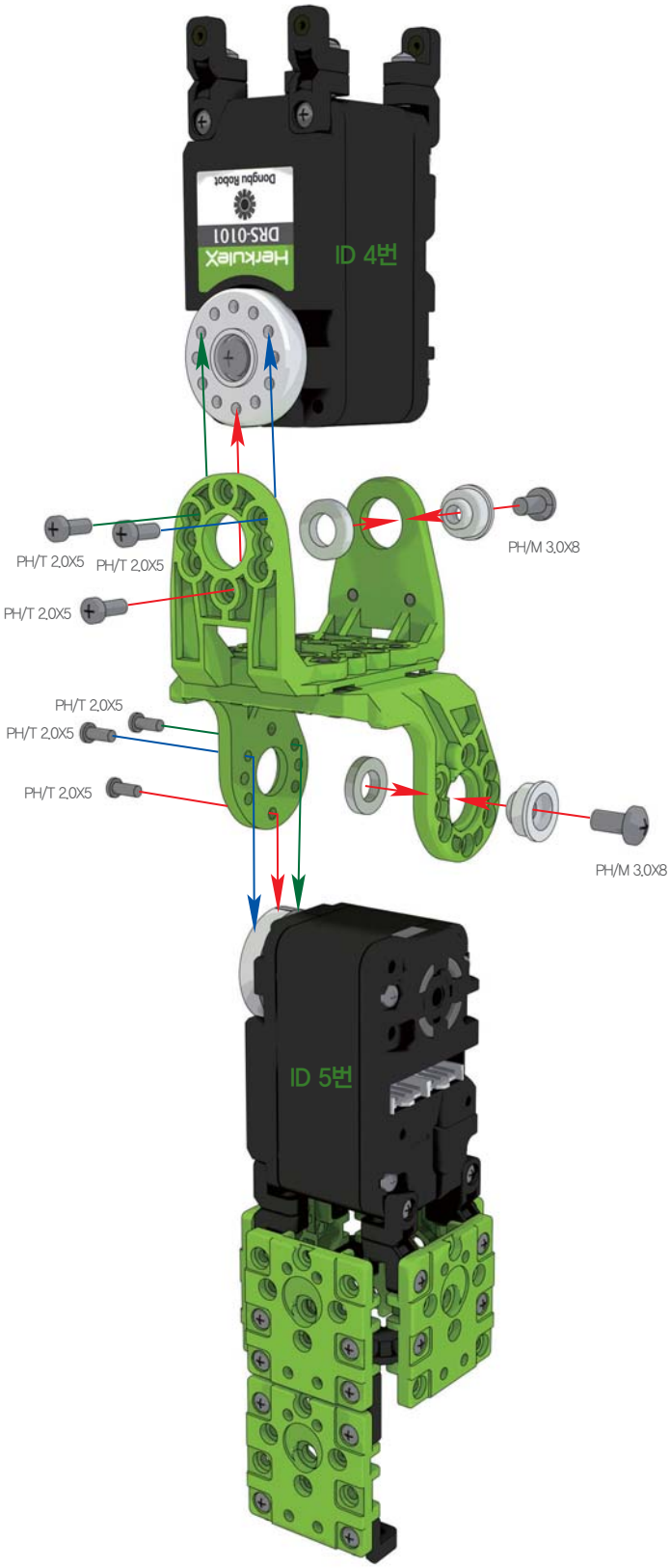
DRA-0056
Bolt (PH/M 2.0X4) 4개

1:1 SCALE



PH/M 2.0X4

12자유도 6족 보행로봇



왼쪽 가운데 다리

오른쪽 가운데 다리

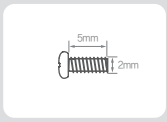
사용부품

DRA-0062 Bolt (PH/M 3.0X8) 2개

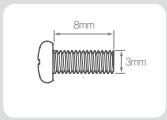
DRA-0064 Bolt (PH/T 2.0X5) 6개

DRJ-0011 Bushing Set 2개

1:1 SCALE

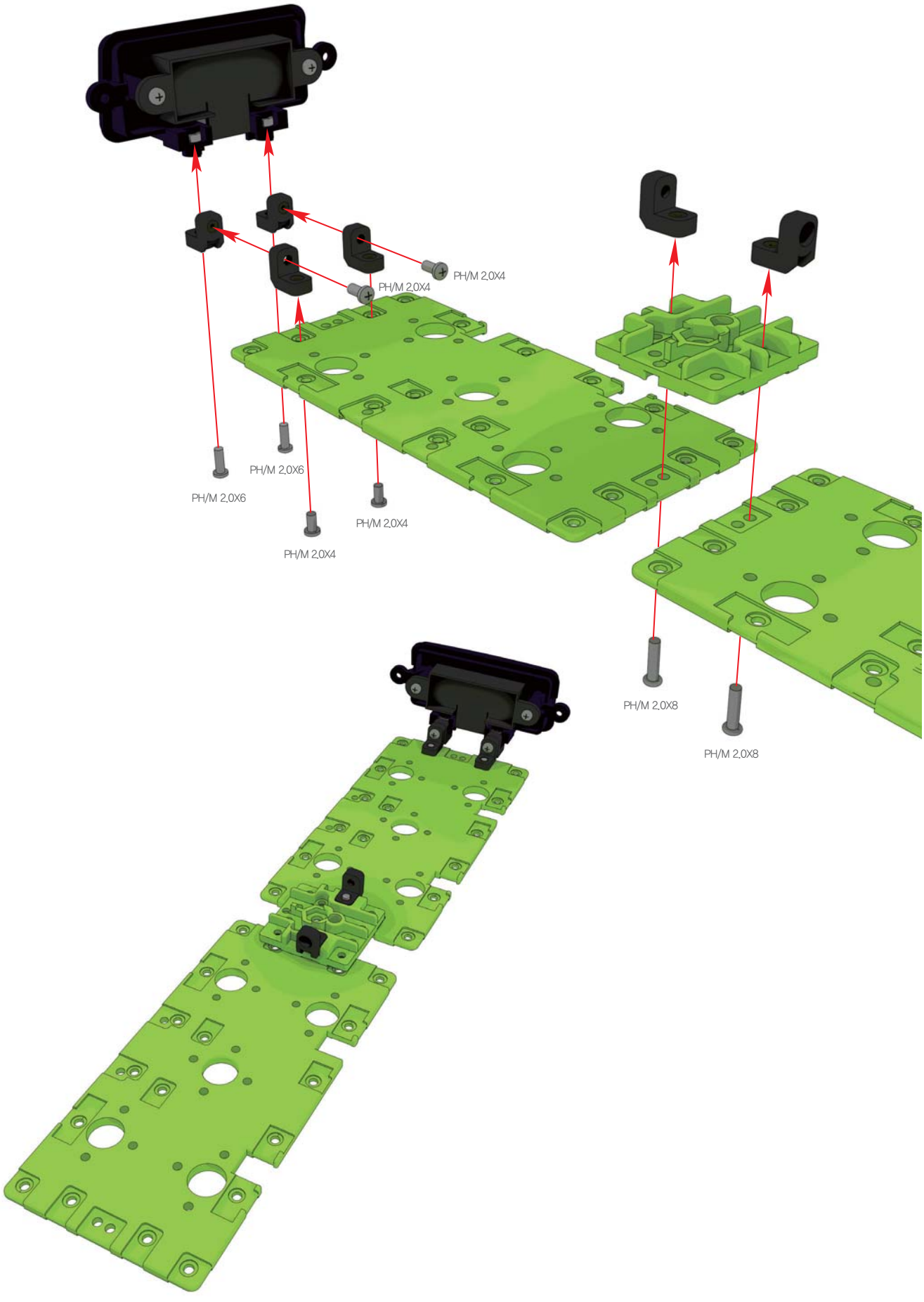


PH/T 2.0X5



PH/M 3.0X8

12자유도 6족 보행로봇



사용부품

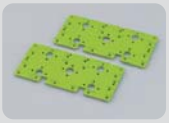
DRA-0056 4개
Bolt (PH/M 2.0X4)

DRA-0058 2개
Bolt (PH/M 2.0X6)

DRA-0059 2개
Bolt (PH/M 2.0X8)

DRJ-0001 6개
L-type Joint
(Single Nut)

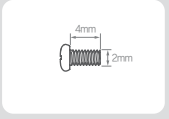
DRB-0004 1개
Universal Plate



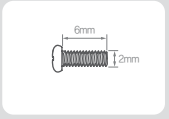
DRB-0001 2개
Front / Back

DRI-0008 1개
PSD Sensor

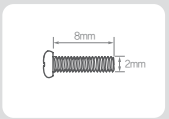
1:1 SCALE



PH/M 2.0X4

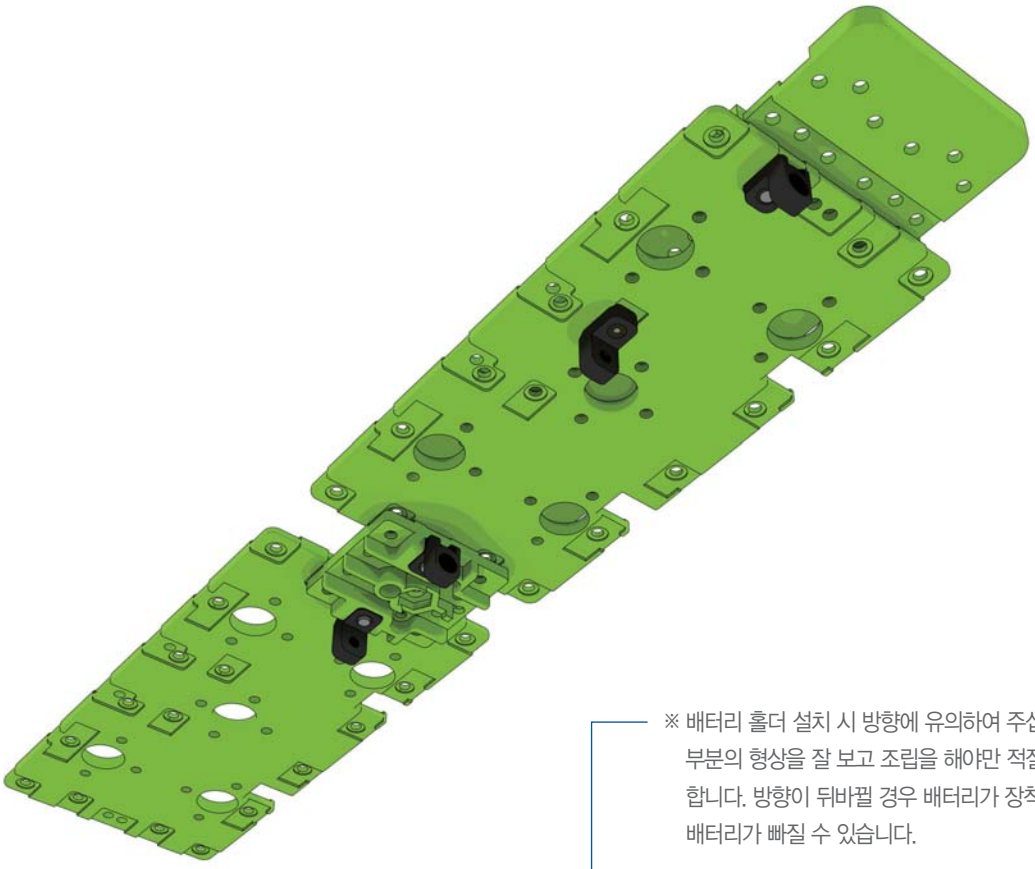


PH/M 2.0X6

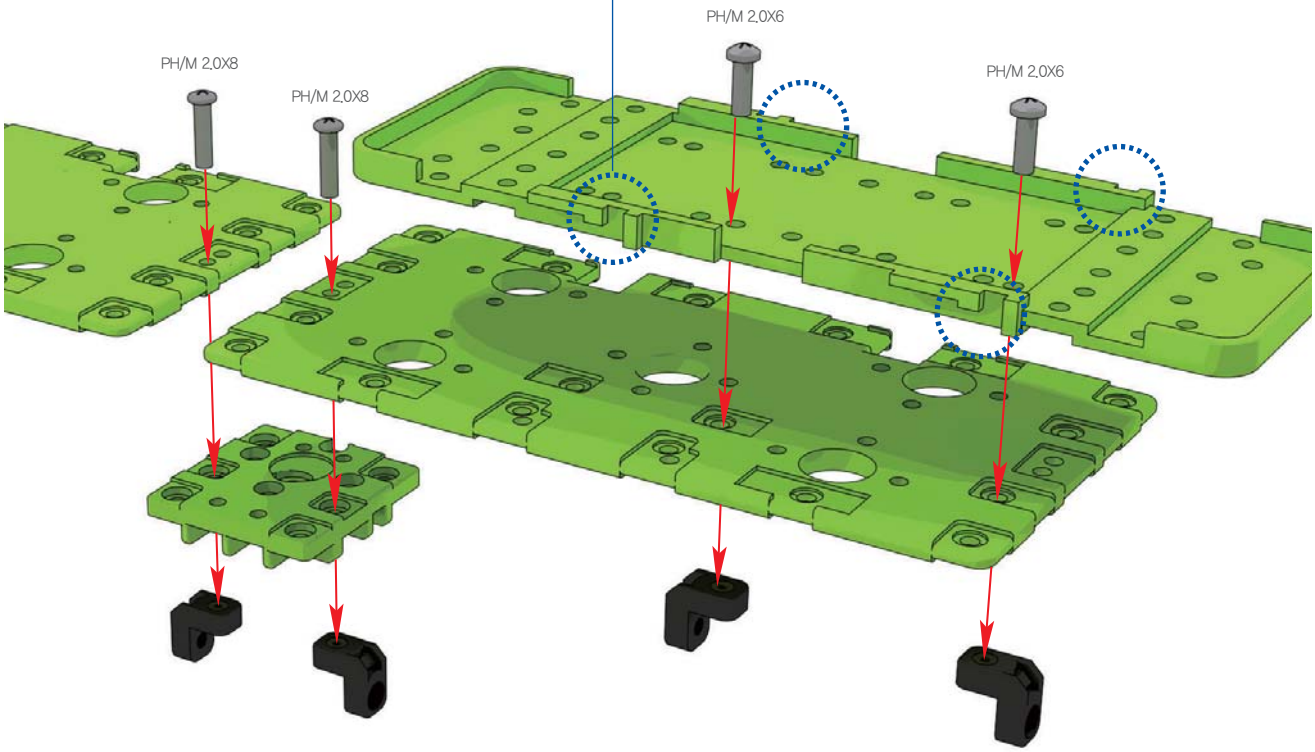


PH/M 2.0X8

12자유도 6족 보행로봇



※ 배터리 홀더 설치 시 방향에 유의하여 주십시오. 그림에 표시된 부분의 형상을 잘 보고 조립을 해야만 적절한 배터리 장착이 가능합니다. 방향이 뒤바뀔 경우 배터리가 장착이 제대로 안되어, 배터리가 빠질 수 있습니다.



사용부품

DRA-0058 2개
Bolt (PH/M 2.0X6)

DRA-0059 2개
Bolt (PH/M 2.0X8)

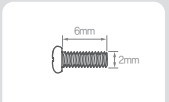
DRJ-0001 4개
L-type Joint
(Single Nut)

DRB-0004 1개
Universal Plate

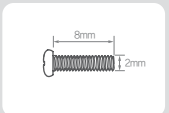
DRB-0001 2개
Front / Back

DRB-0007 1개
Battery Holder

1:1 SCALE

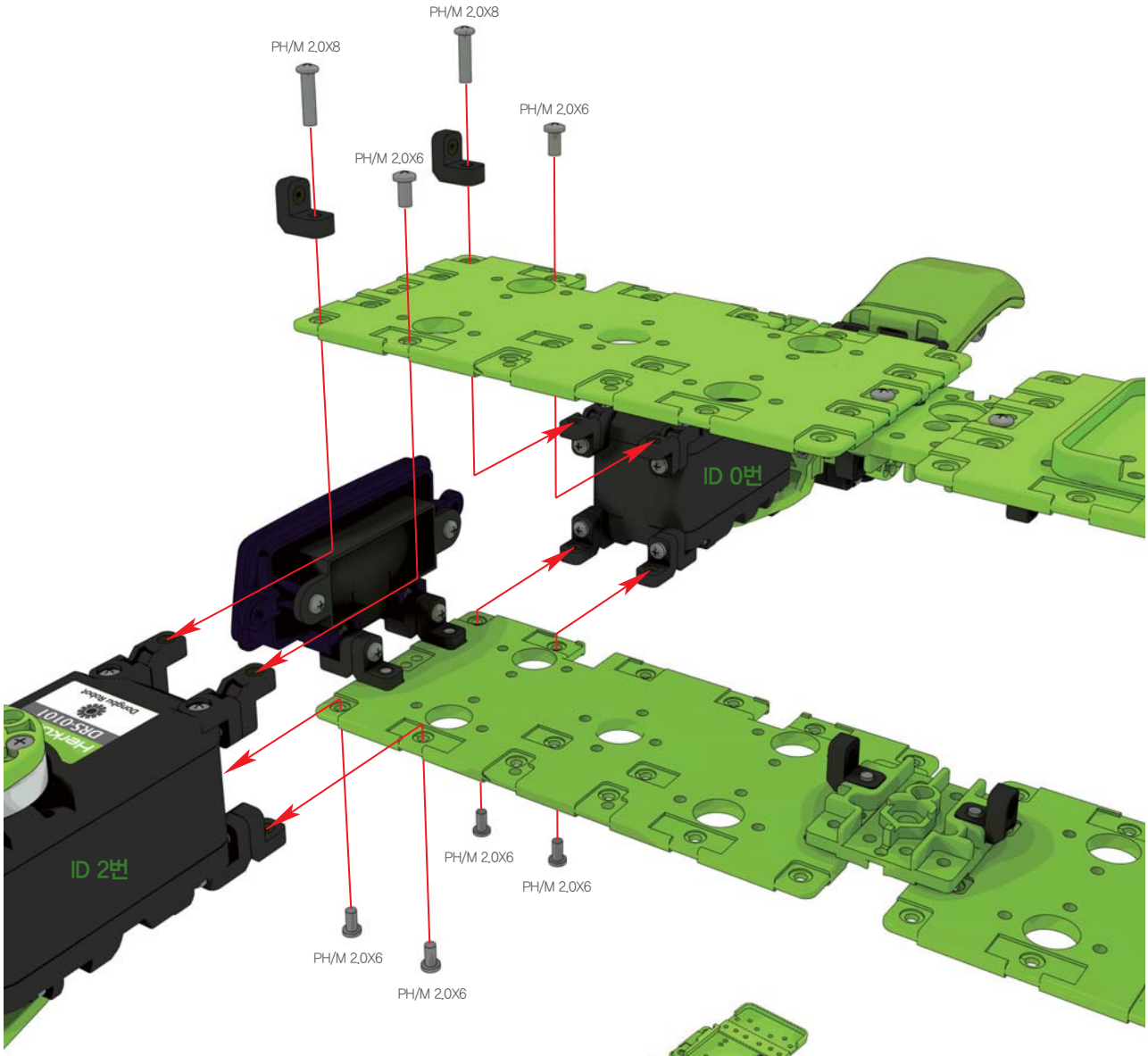


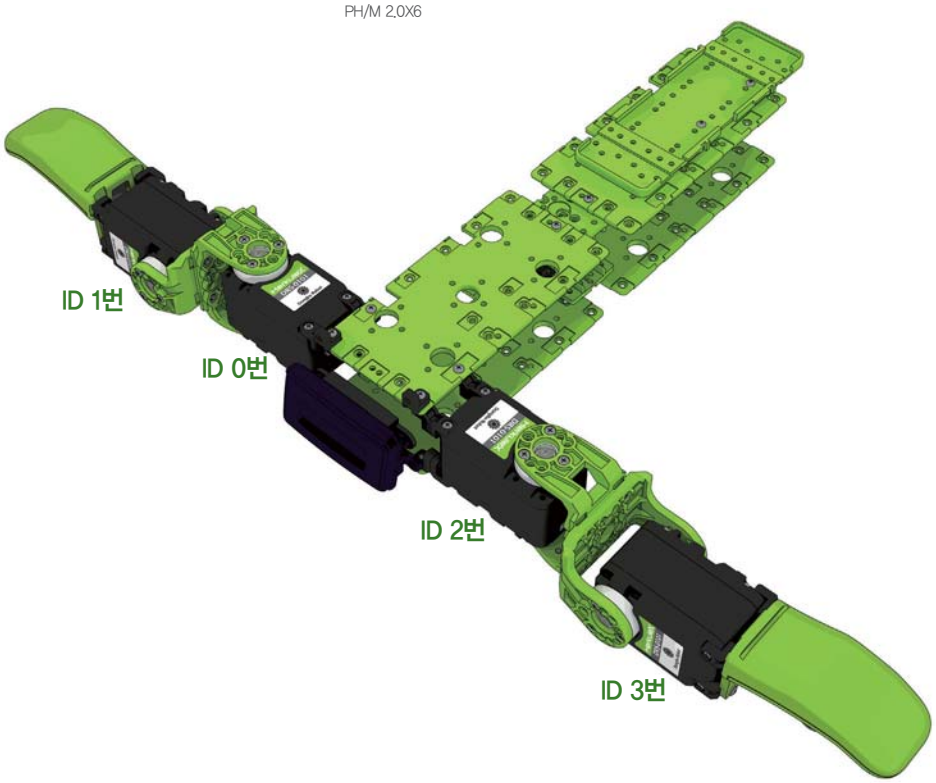
PH/M 2.0X6



PH/M 2.0X8

12자유도 6족 보행로봇





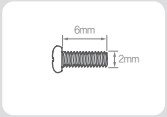
사용부품

DRA-0058 6개
Bolt (PH/M 2.0X6)

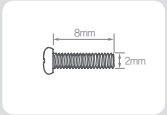
DRA-0059 2개
Bolt (PH/M 2.0X8)

DRJ-0001 4개
L-type Joint
(Single Nut)

1:1 SCALE

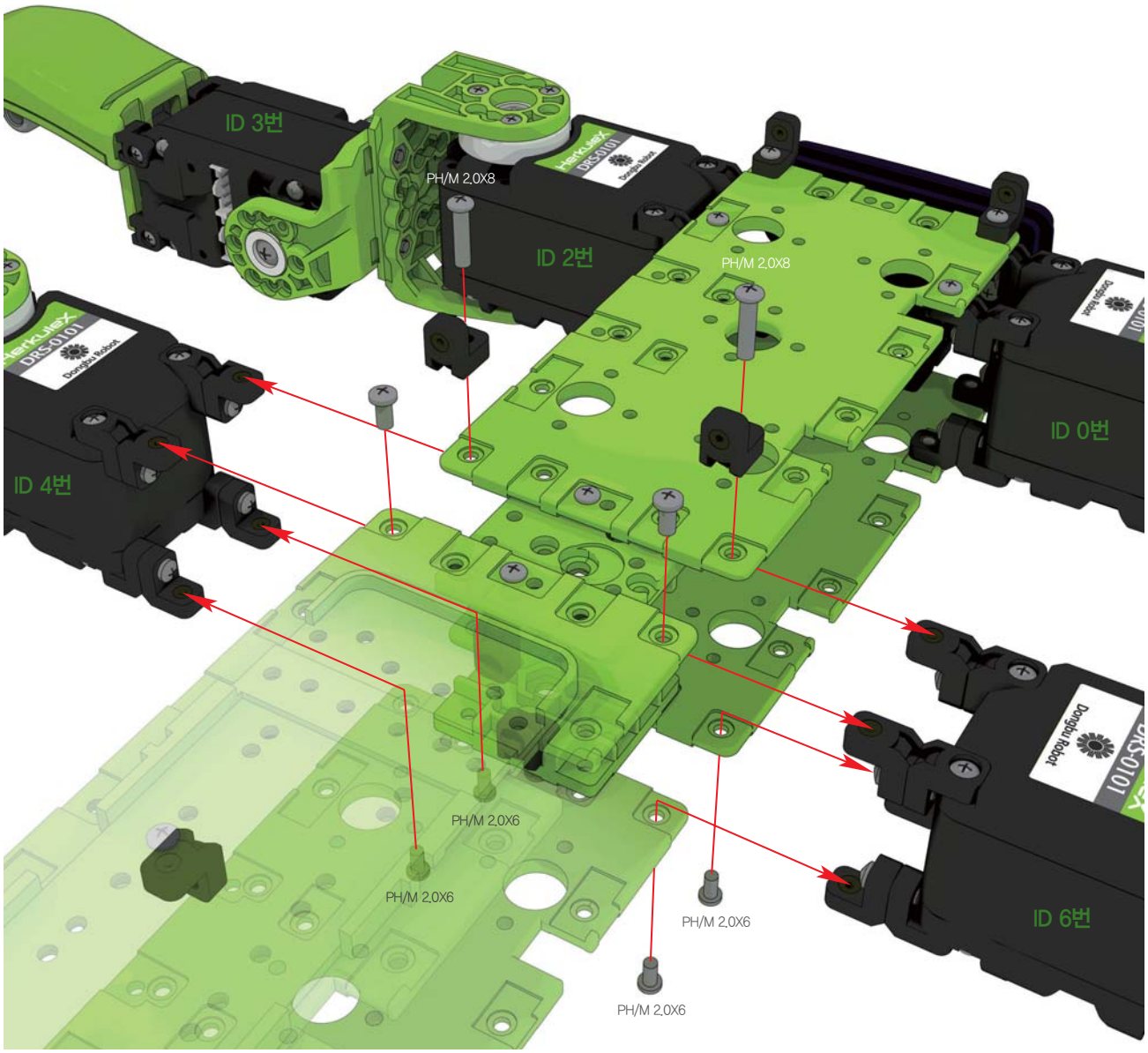


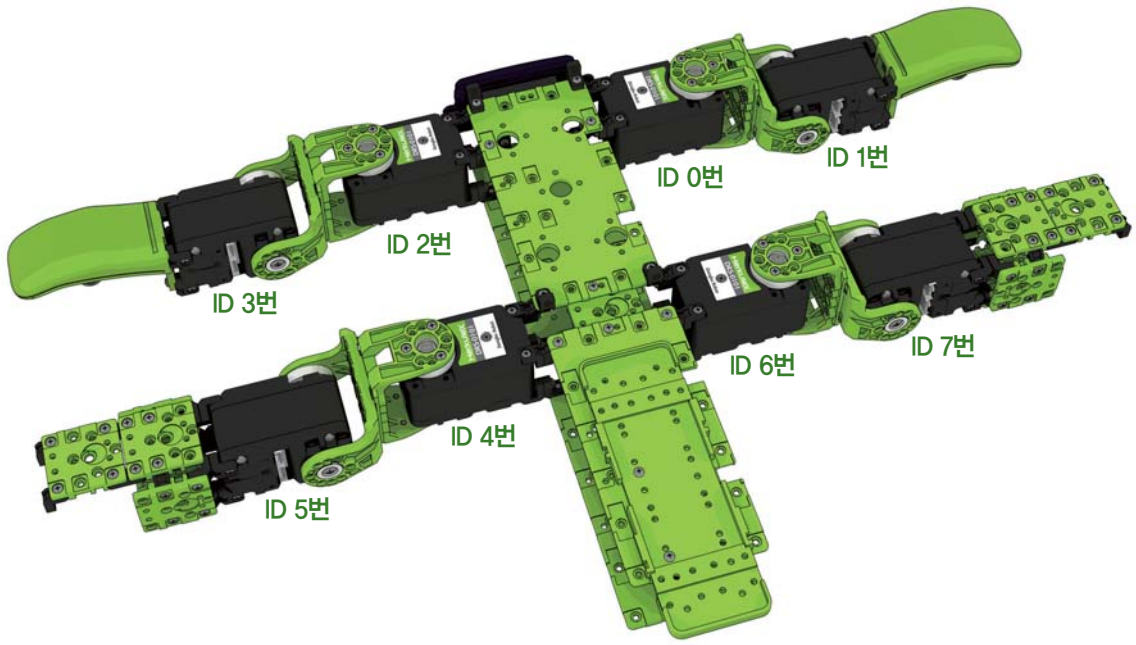
PH/M 2.0X6



PH/M 2.0X8

12자유도 6족 보행로봇





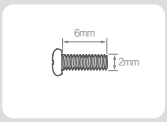
사용부품

DRA-0058 6개
Bolt (PH/M 2.0X6)

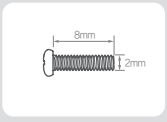
DRA-0059 2개
Bolt (PH/M 2.0X8)

DRJ-0001 4개
L-type Joint
(Single Nut)

1:1 SCALE



PH/M 2.0X6



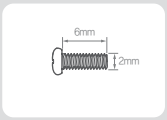
PH/M 2.0X8

12자유도 6족 보행로봇

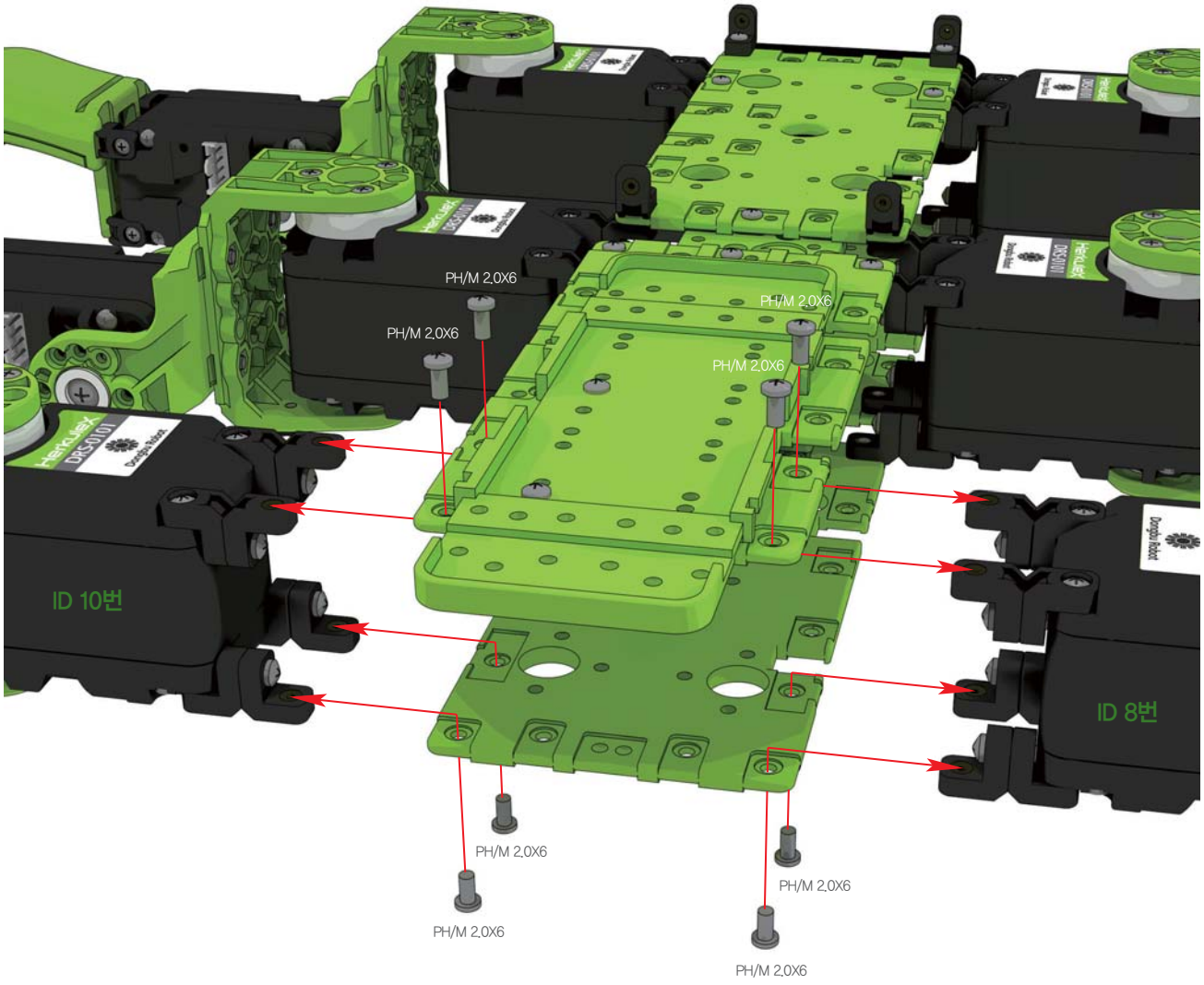
사용부품

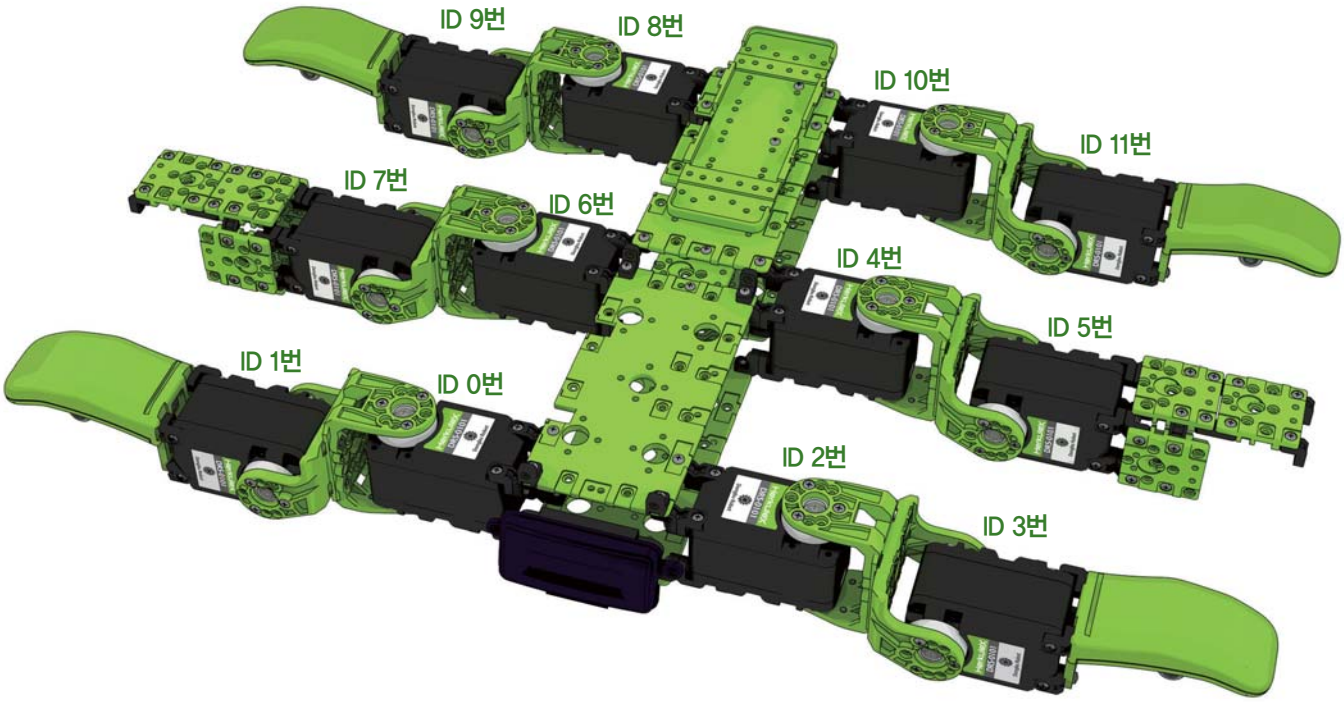
DRA-0058 8개
Bolt (PH/M 2.0X6)

1:1 SCALE

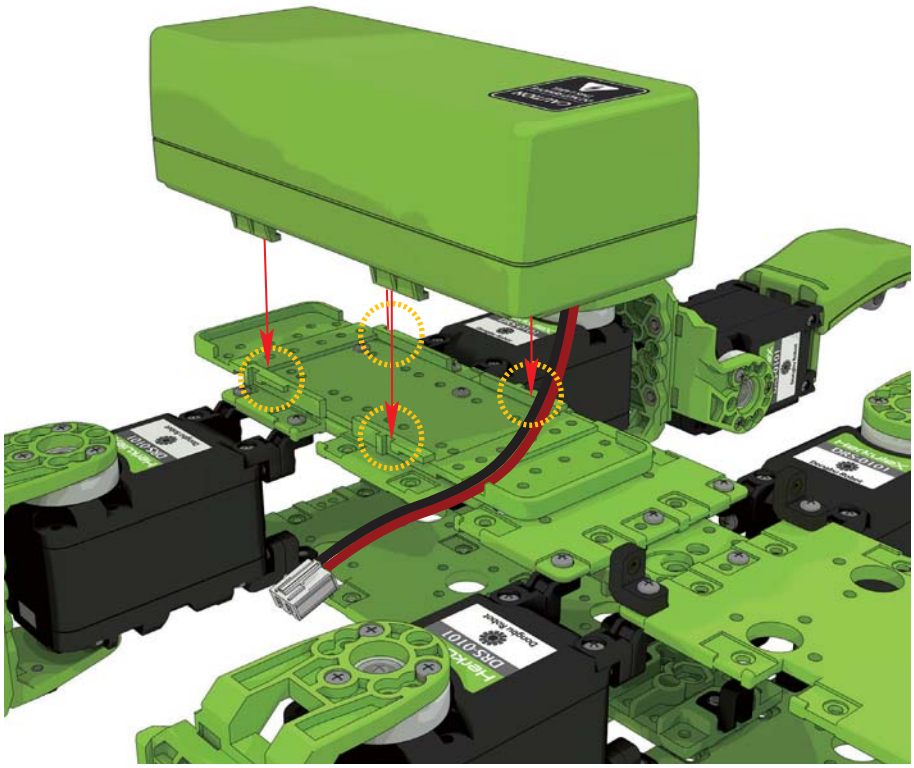


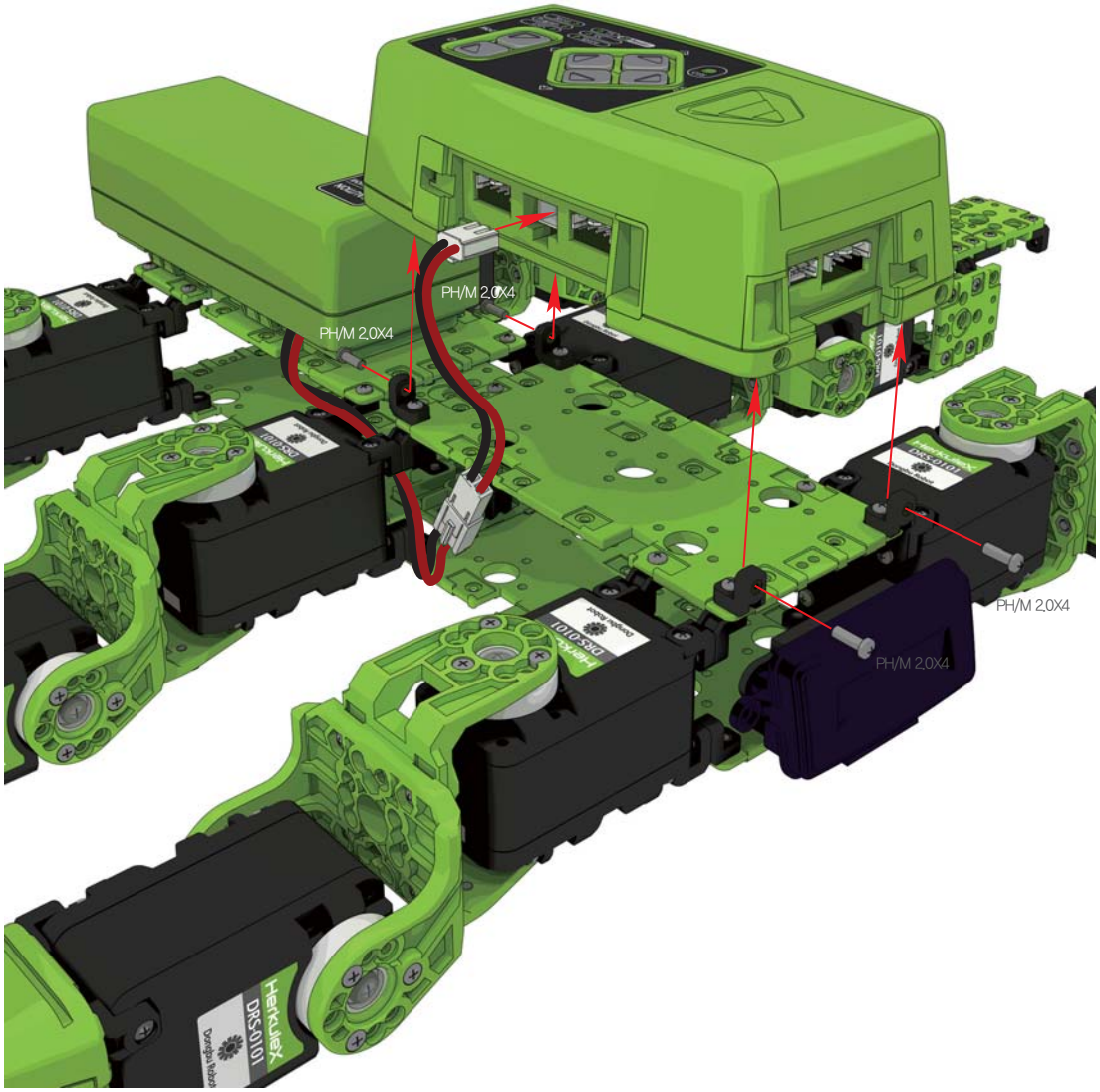
PH/M 2.0X6





12자유도 6족 보행로봇





사용부품

DRA-0056 4개
Bolt (PH/M 2.0X4)

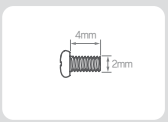
DRC-005T 1개
Controller

DRB-0007 1개
Battery Case

DRL-0728 1개
7.4V Li-Po Battery
(3,000mA)

DRL-0728 1개
Battery Cable

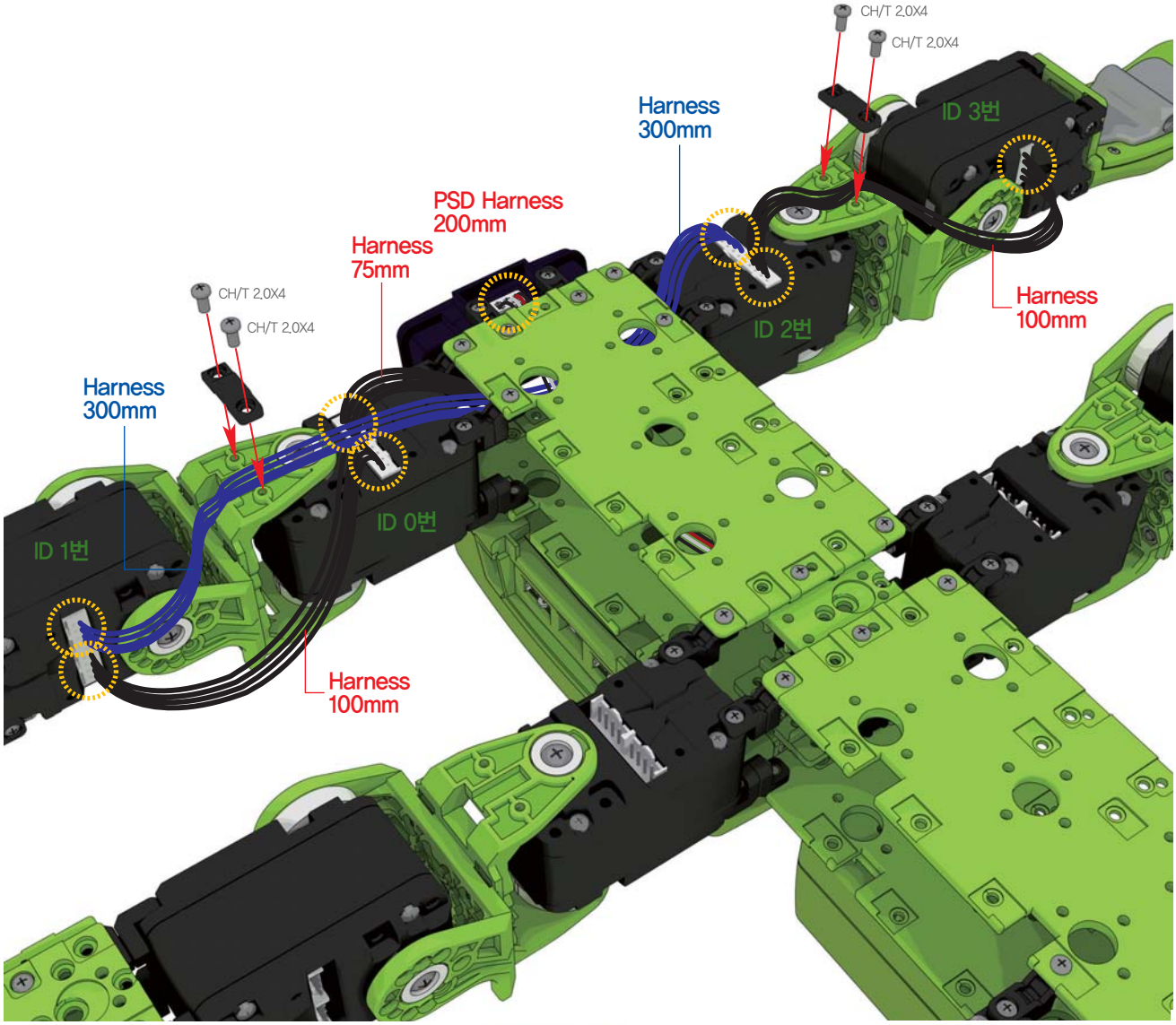
1:1 SCALE



PH/M 2.0X4

12자유도 6족 보행로봇

HOVIS Lite



사용부품

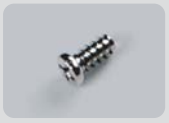
DRA-0002 1개
Harness (75mm)

DRA-0003 2개
Harness (100mm)

DRA-0007 1개
Harness (300mm)

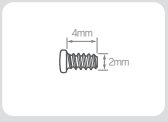
DRA-0021 1개
PSD Harness
3pin (200mm)

DRJ-0007 2개
I-type Joint
(16.0mm, Hole only)



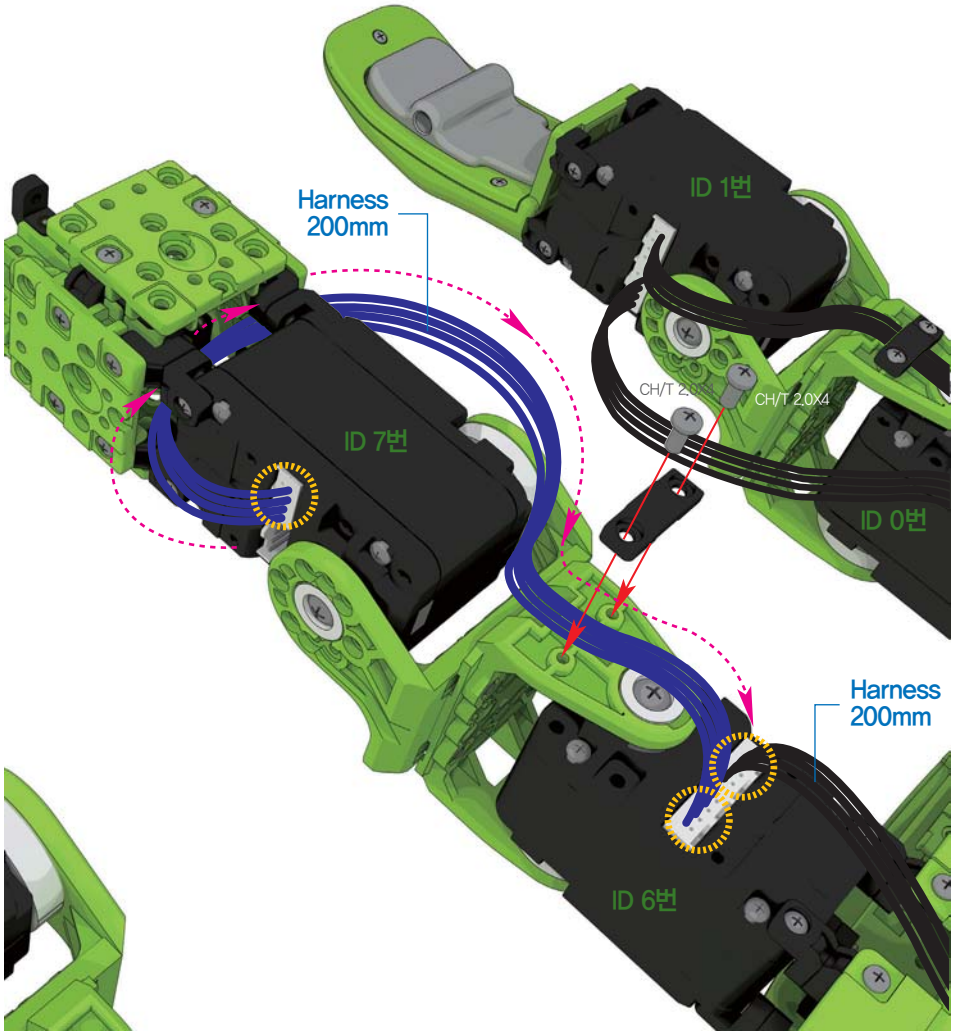
DRA-0063 4개
Bolt (CH/T 2.0X4)

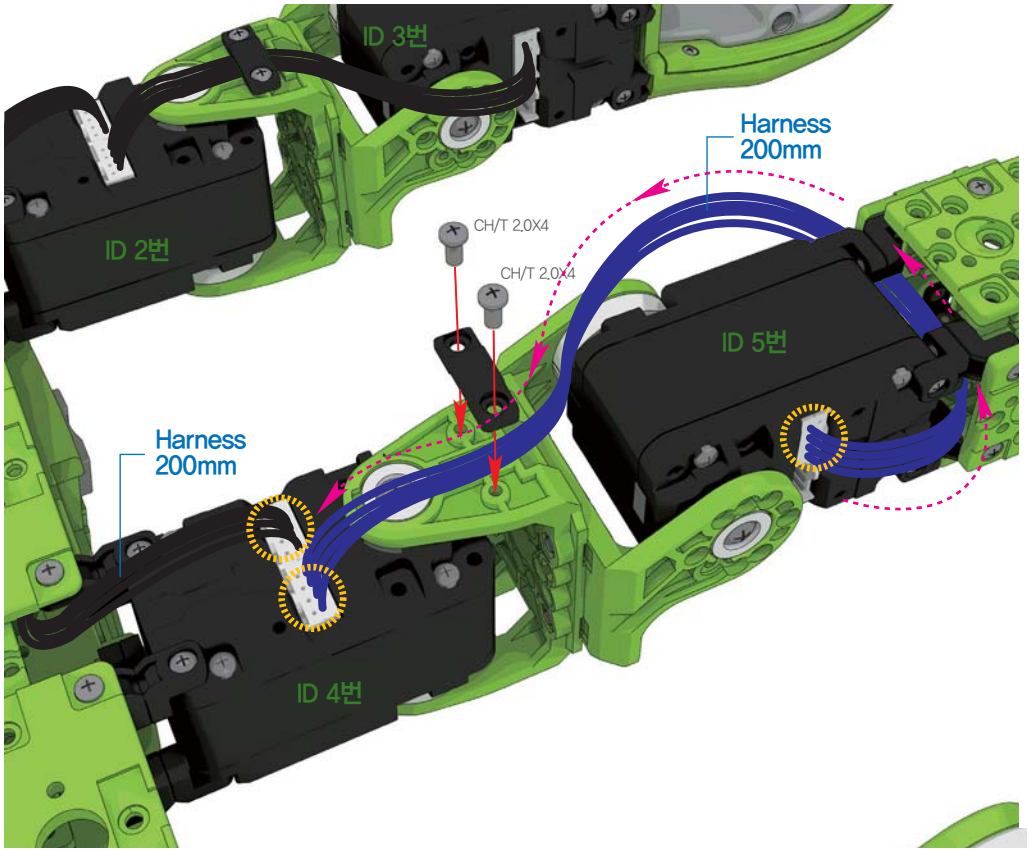
1:1 SCALE



CH/T 2.0X4

12자유도 6족 보행로봇

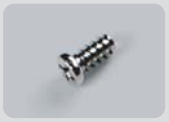




사용부품

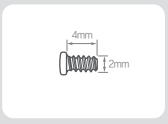
DRA-0006 4개
Harness (200mm)

DRJ-0007 2개
I-type Joint
(16.0mm, Hole only)

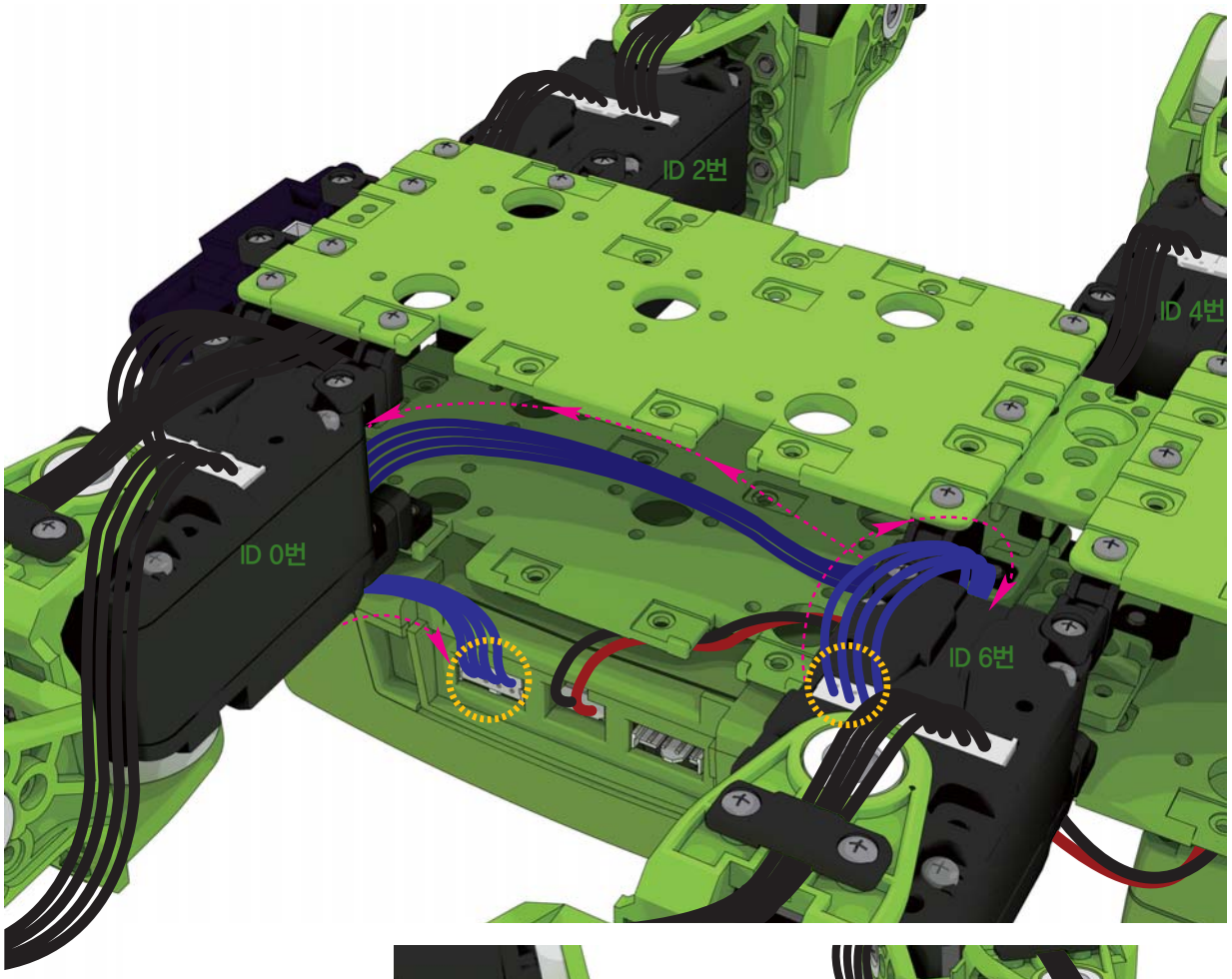


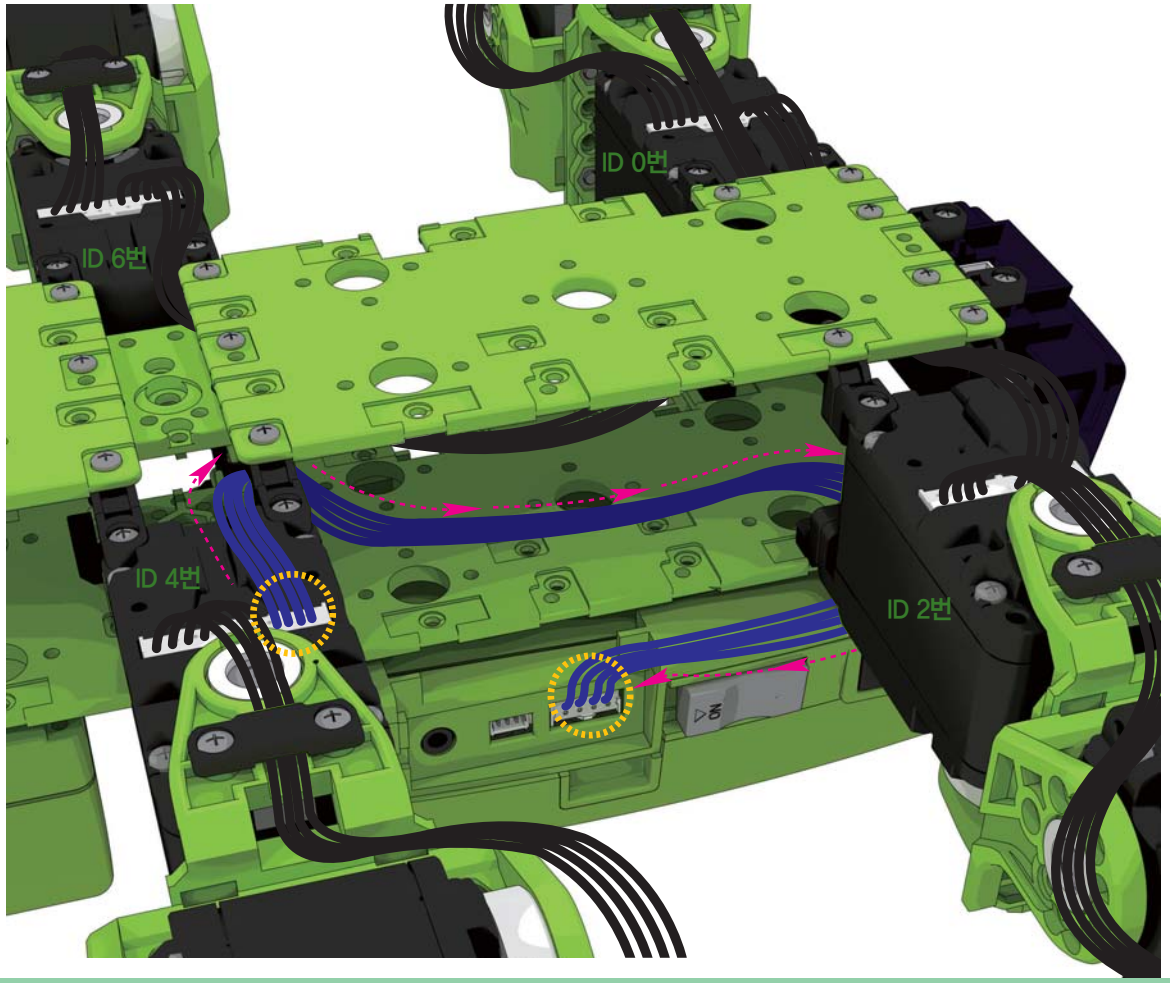
DRA-0063 4개
Bolt (CH/T 2.0X4)

1:1 SCALE



CH/T 2.0X4


ID 2번
ID 4번
ID 0번
ID 6번


ID 0번
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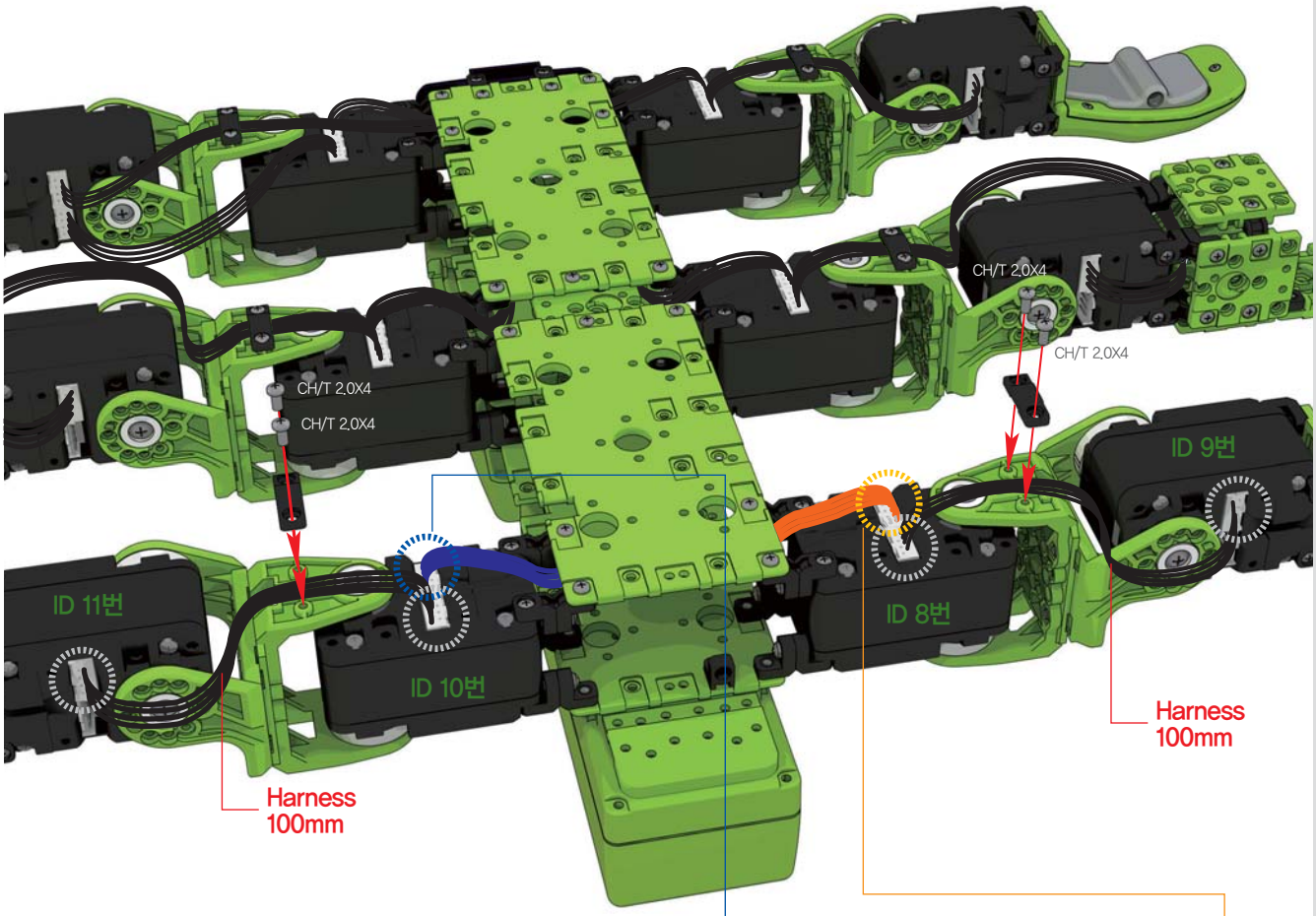
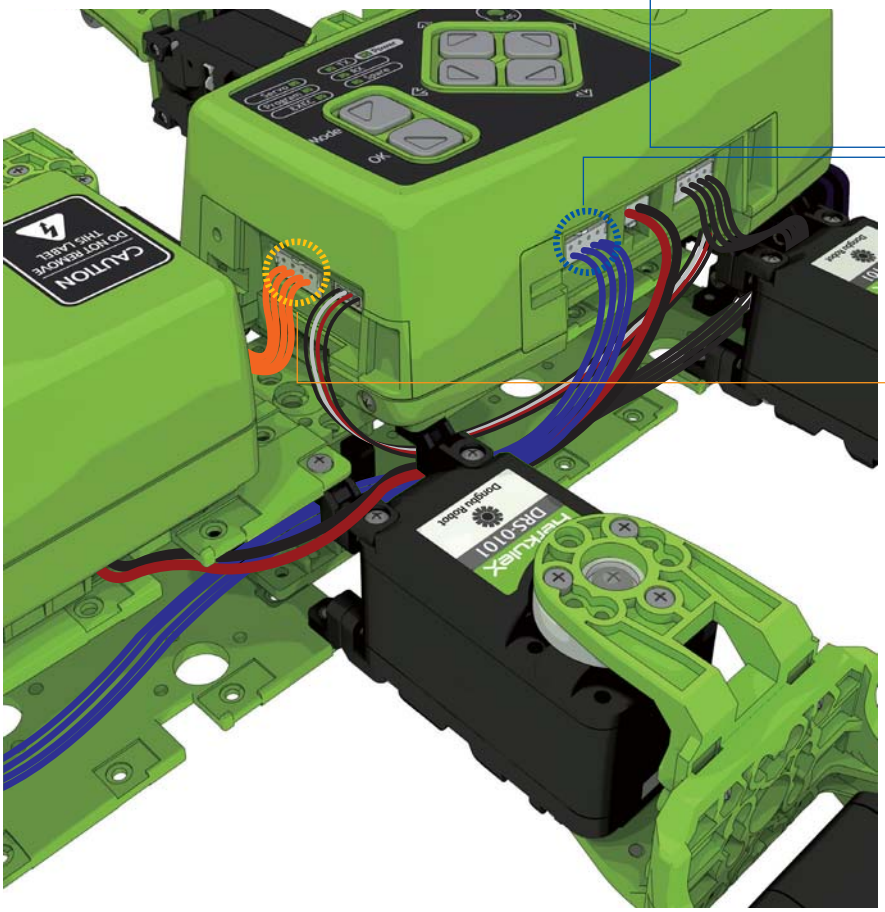
ID 4번
ID 2번

12자유도 6족 보행로봇

HOVIS Lite



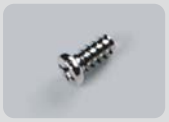


사용부품

DRA-0003 2개
Harness (100mm)

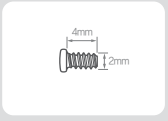
DRA-0006 2개
Harness (200mm)

DRJ-0007 2개
I-type Joint
(16.0mm, Hole only)



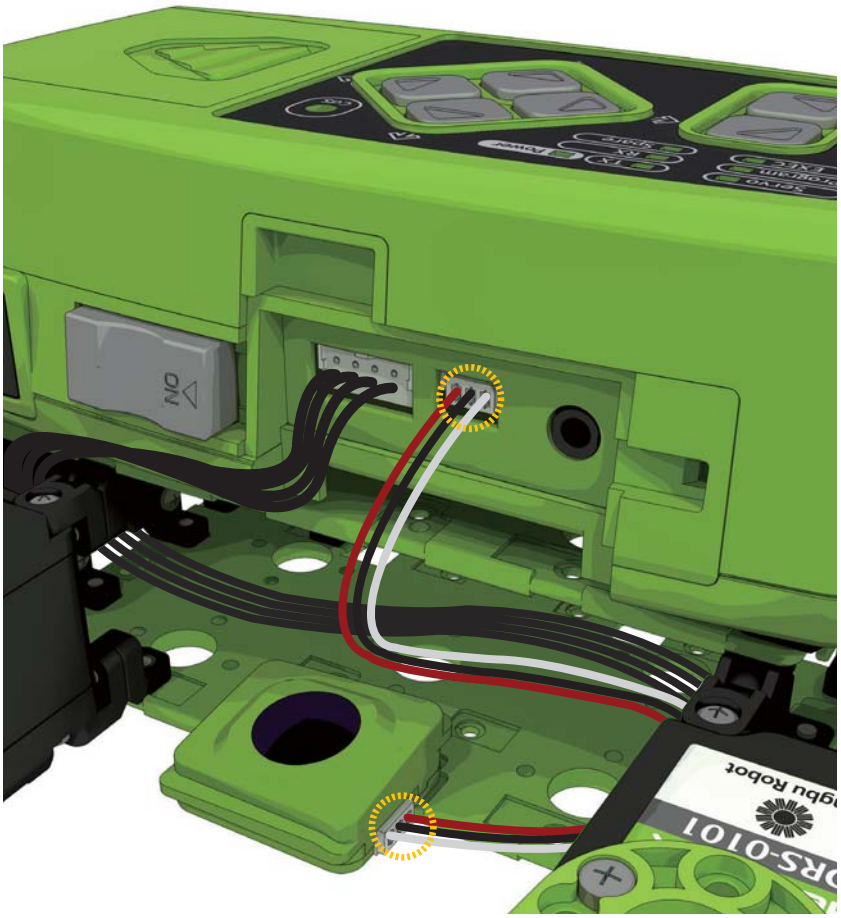
DRA-0063 4개
Bolt (CH/T 2.0X4)

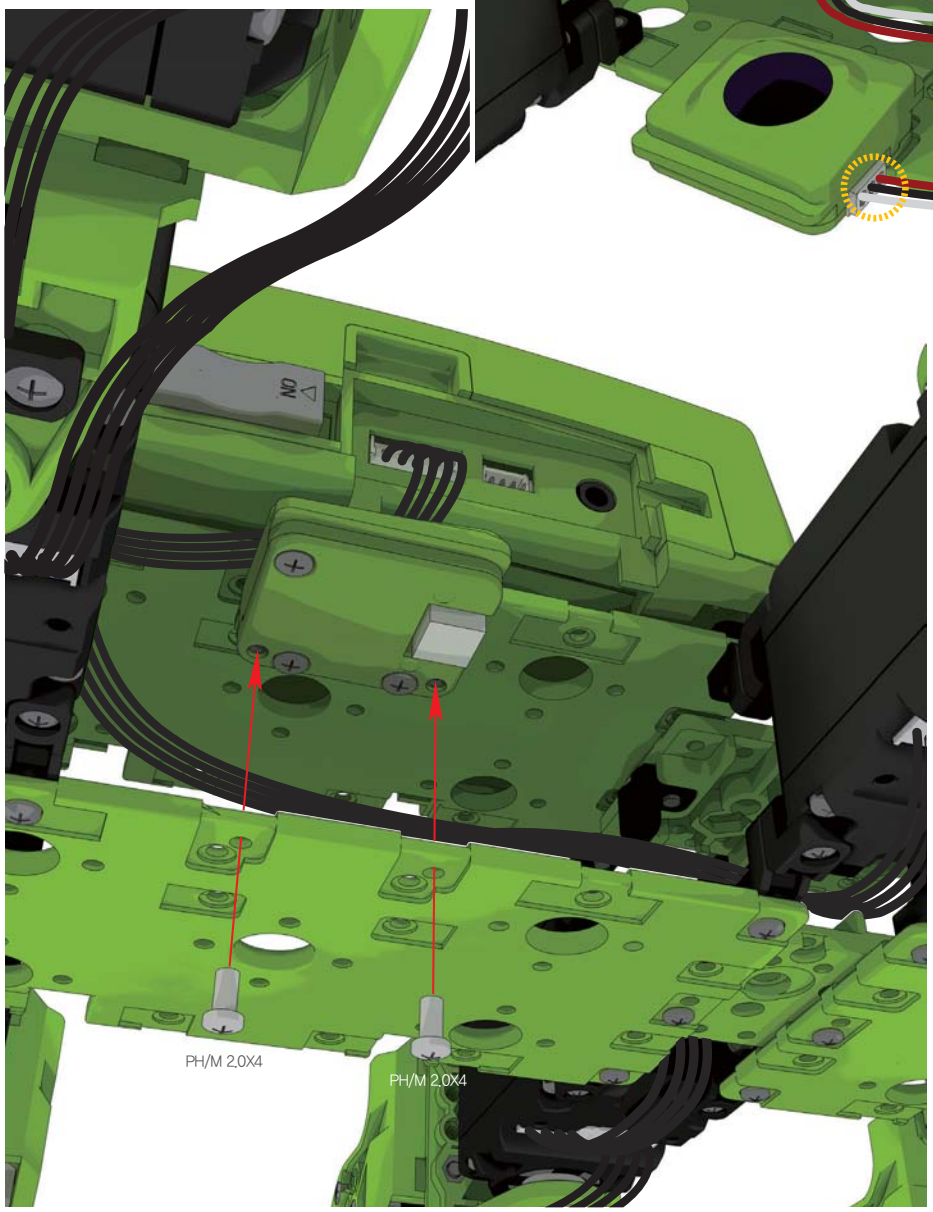
1:1 SCALE



CH/T 2.0X4

12자유도 6족 보행로봇





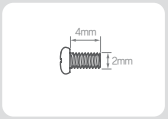
사용부품

DRA-0027 1개
IR Receiver
Harness 3pin (150mm)

DRA-0056 2개
Bolt (PH/M 2.0X4)

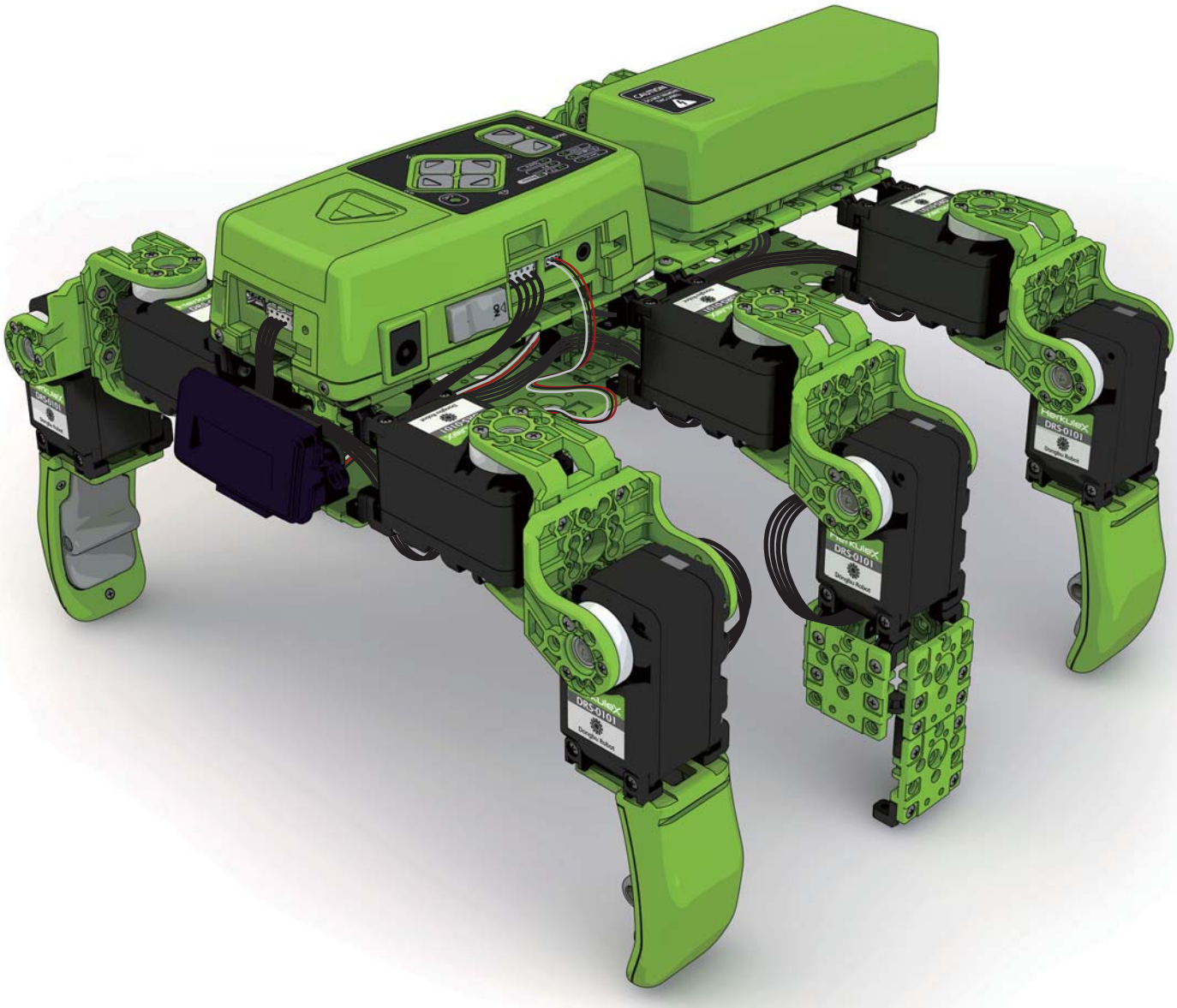
DRI-0004 1개
IR Receiver

1:1 SCALE

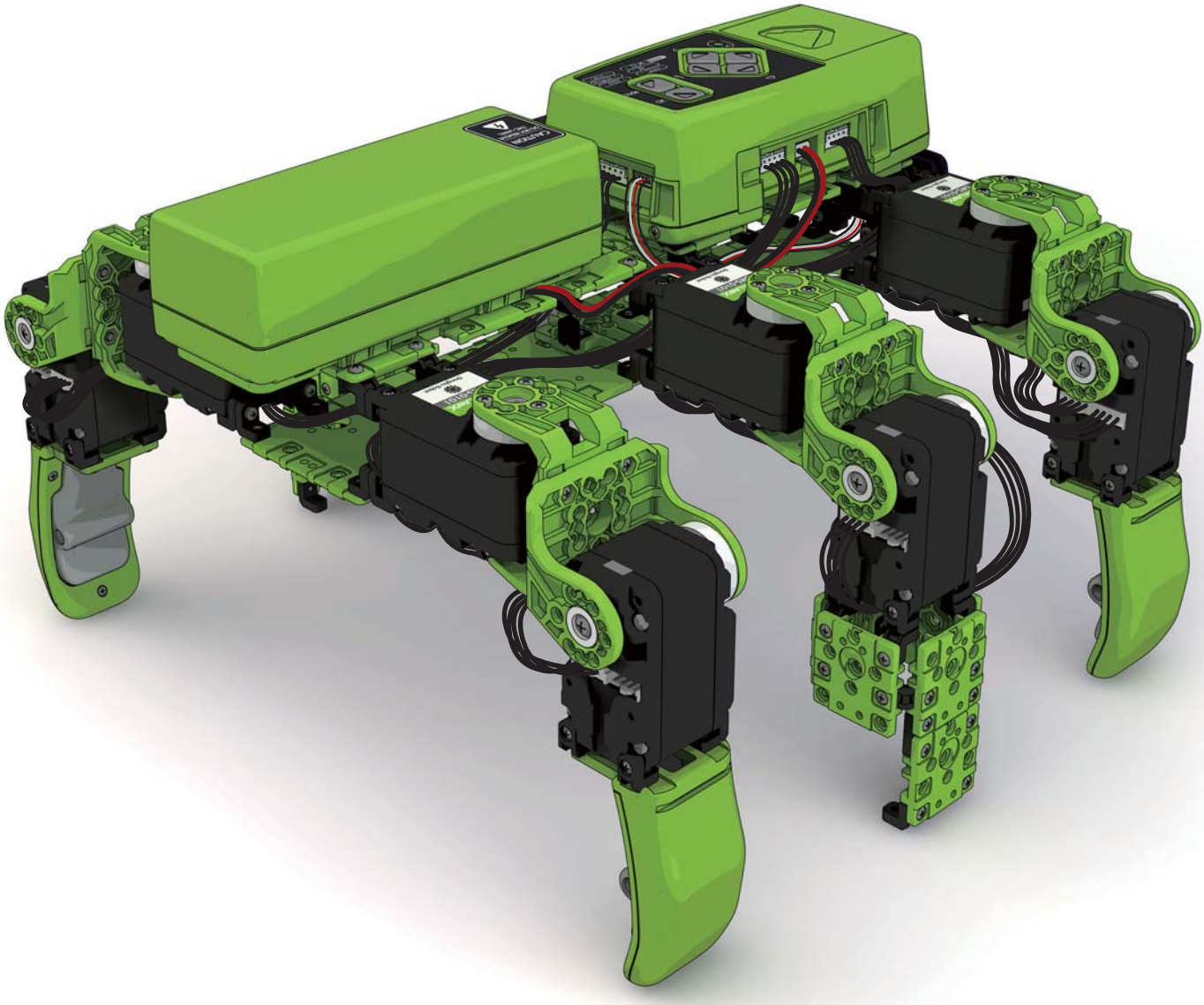


PH/M 2.0X4

12자유도 6족 보행로봇



최종완성



최종완성