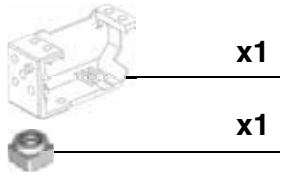
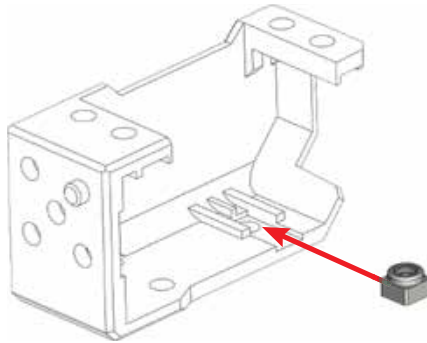


## Instructions for: Left arm

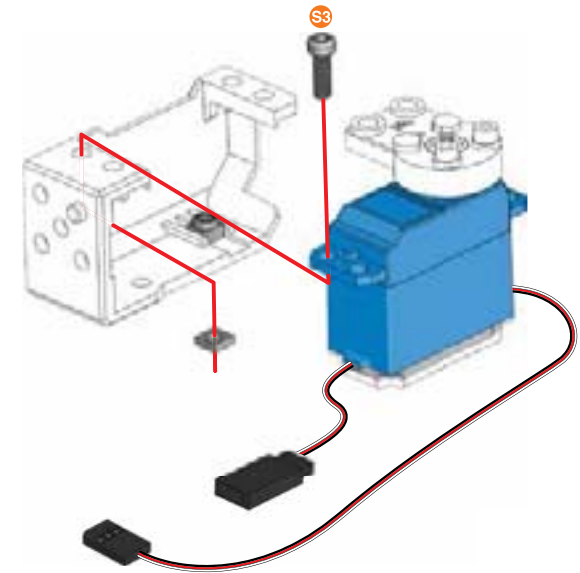
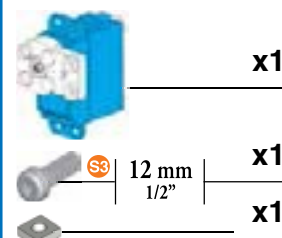
1



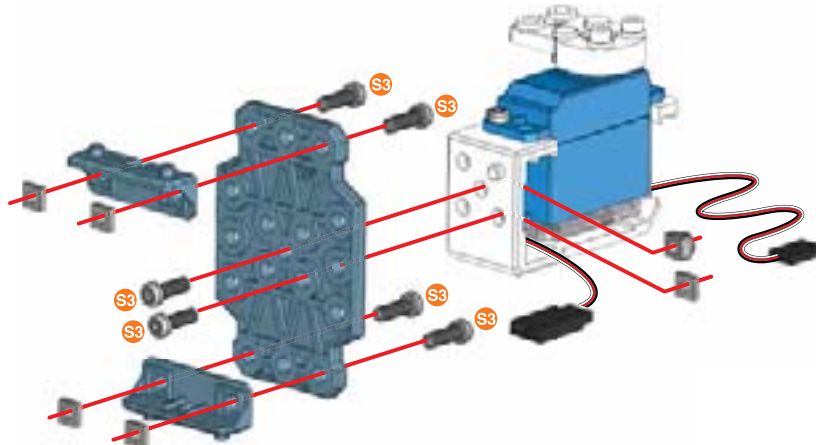
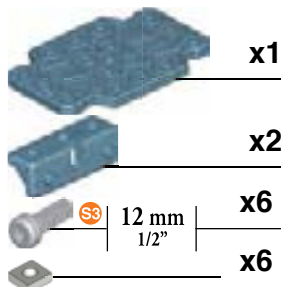
Lock  
Nut!



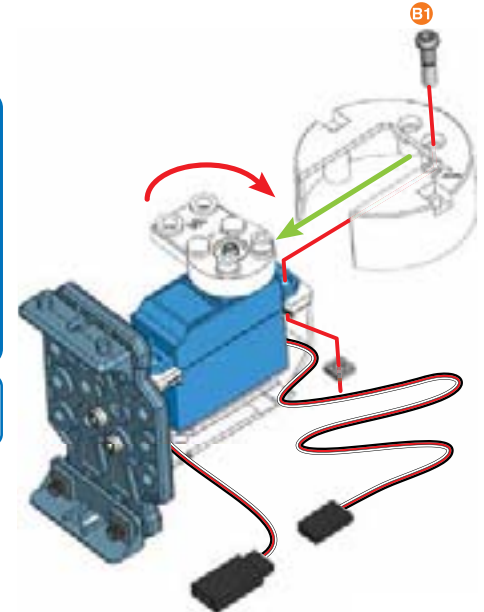
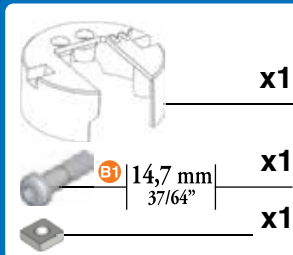
2



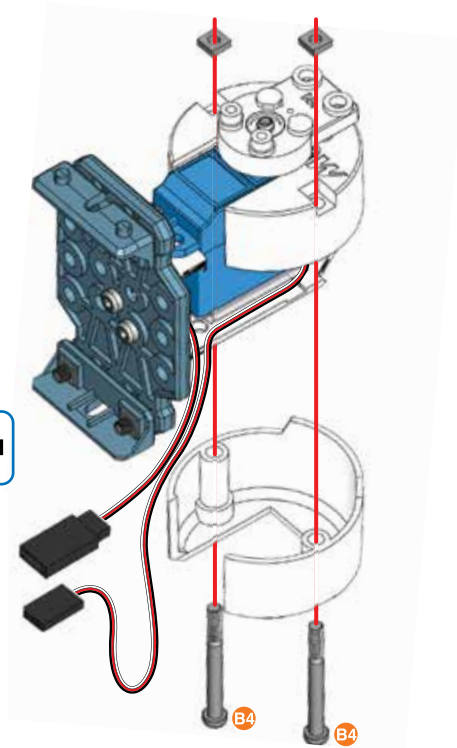
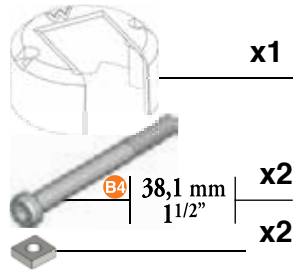
3



4

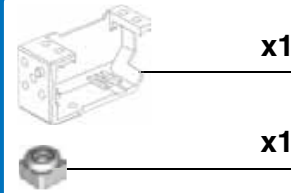


5

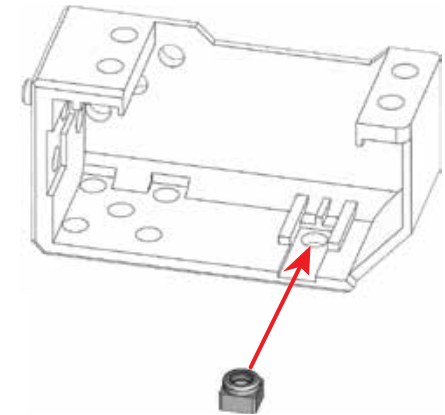


**Give this shoulder motor to the teammate building the body.  
They are probably waiting for it.**

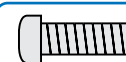
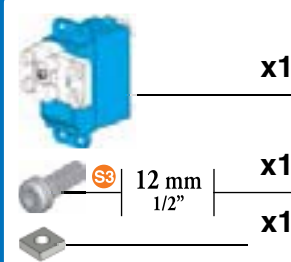
6



Lock  
Nut!

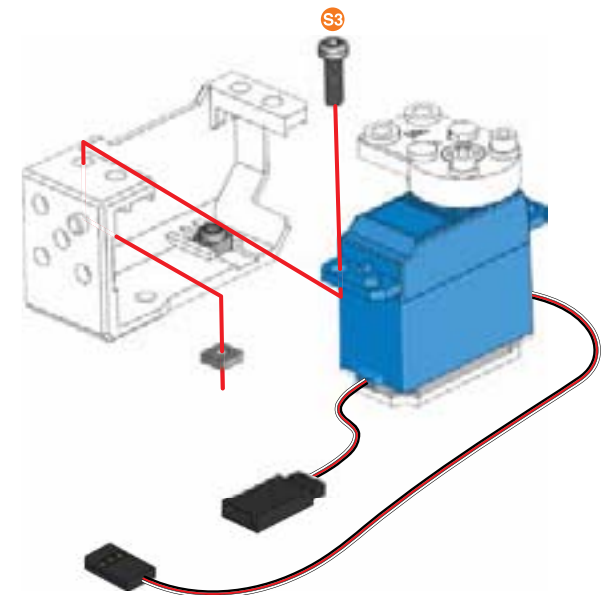


7

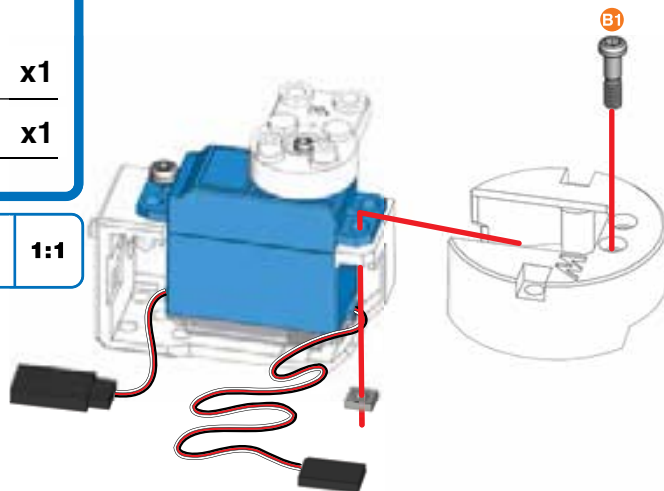
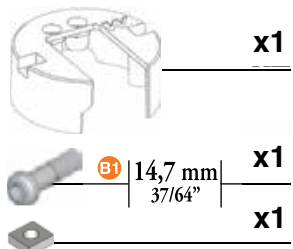


S3

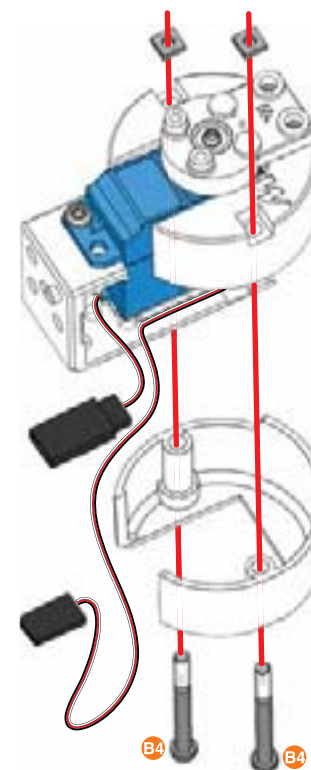
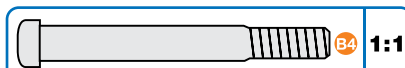
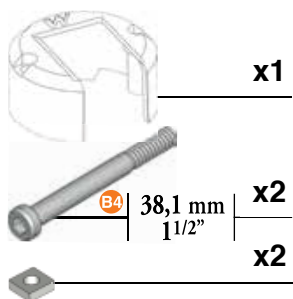
1:1



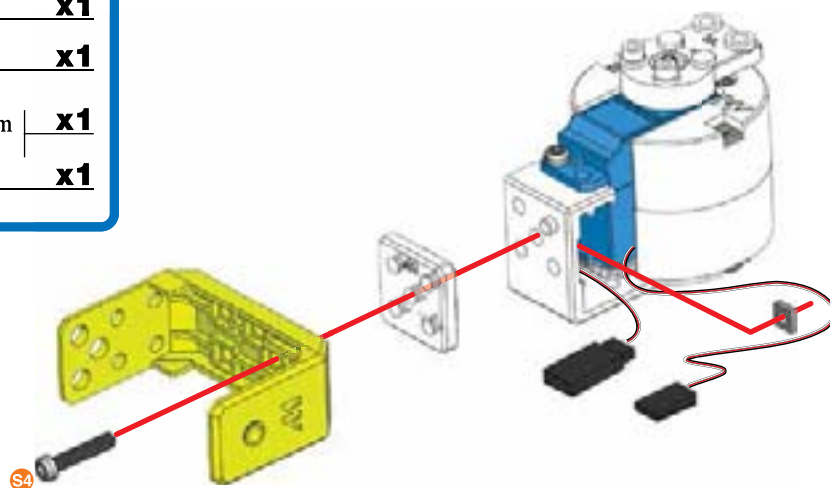
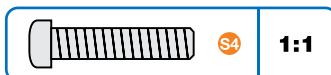
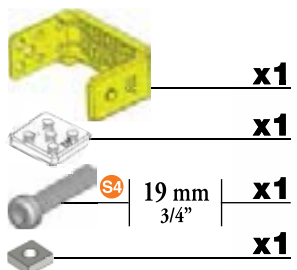
8



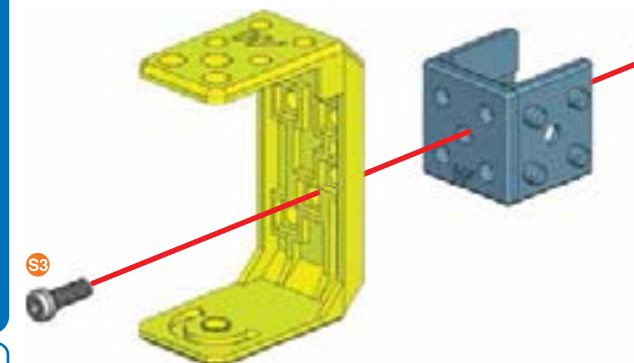
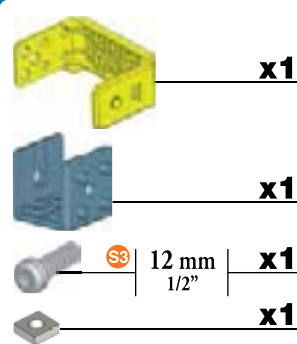
9



10

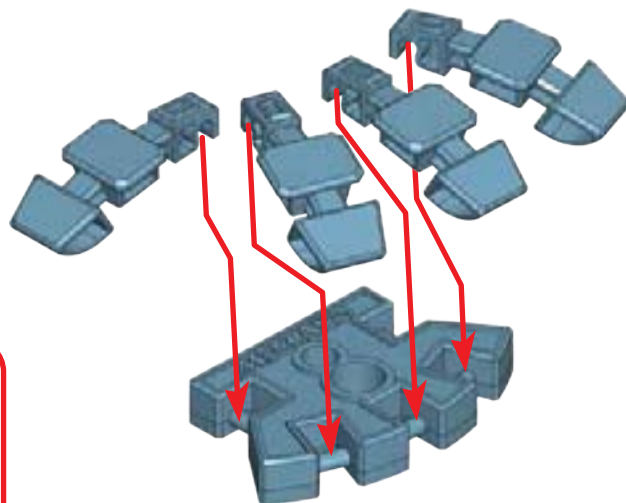
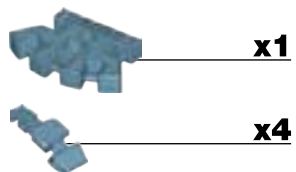


11

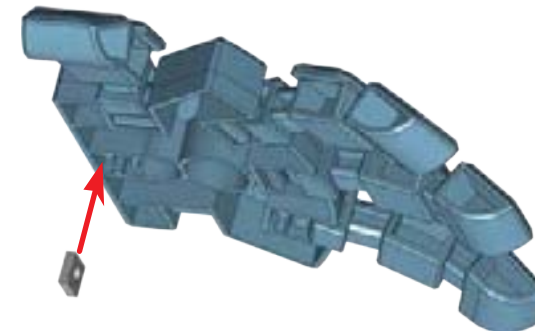
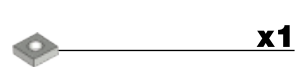




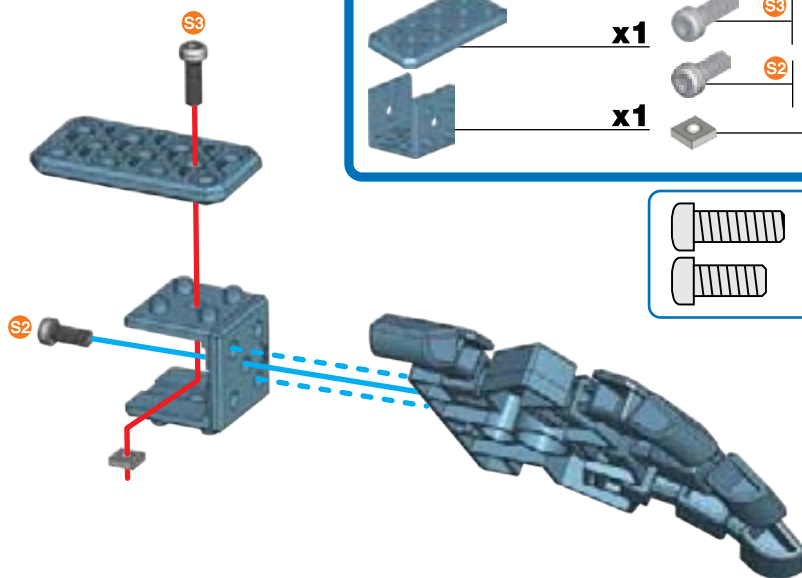
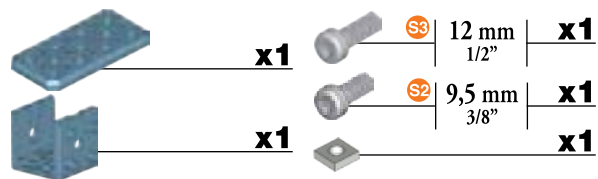
12



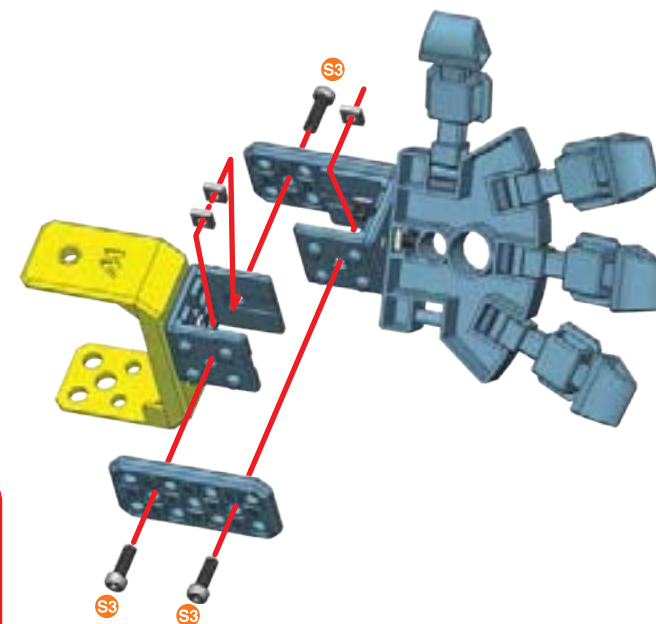
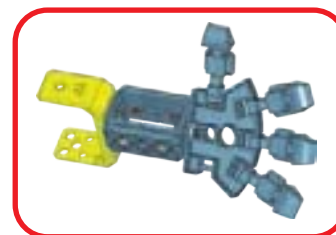
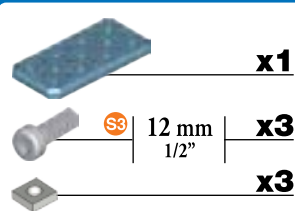
13



14



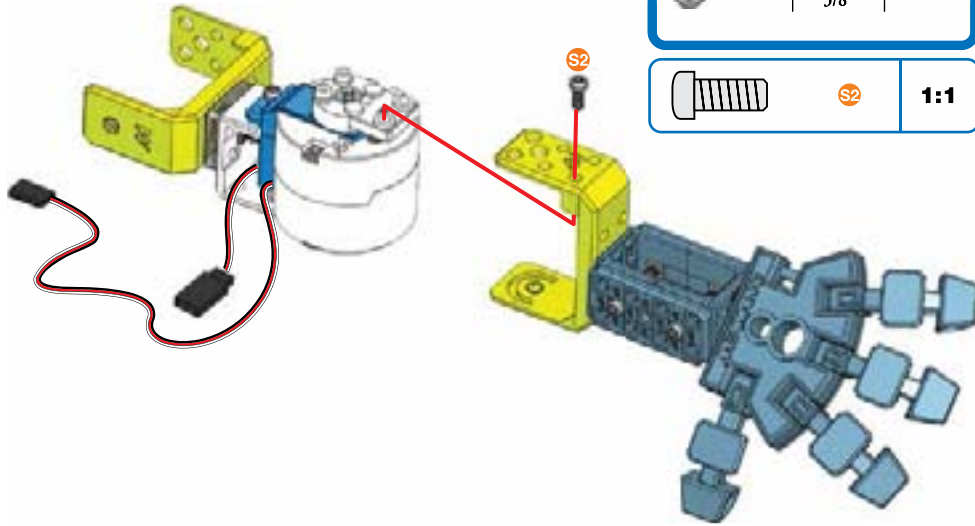
15



16

 **S2** | 9,5 mm  
3/8" | **x1**

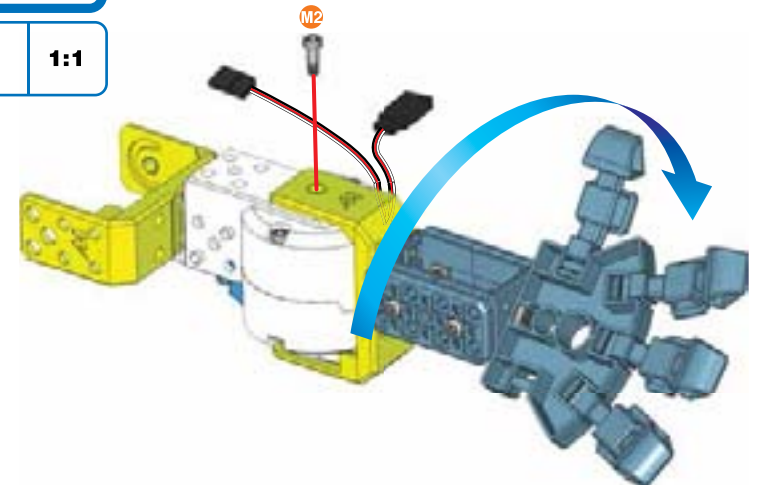
 **S2** | **1:1**



17

 **M2** | 10,5 mm  
7/16" | **x1**

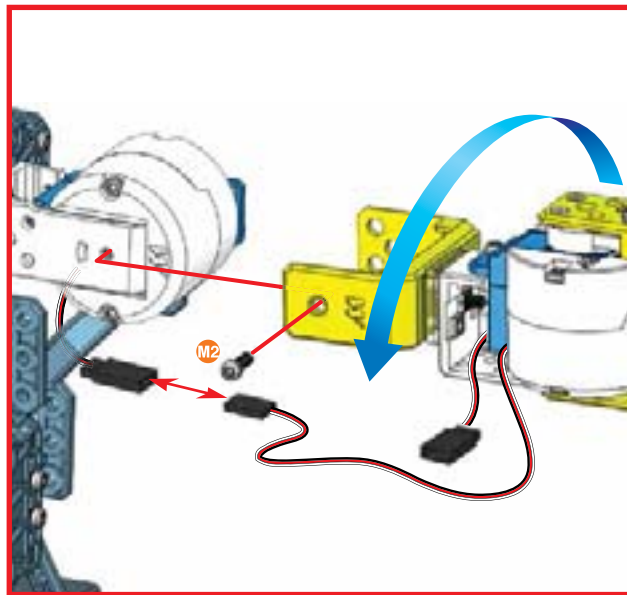
 **M2** | **1:1**



18

 **M2** | 10,5 mm  
7/16" | **x1**

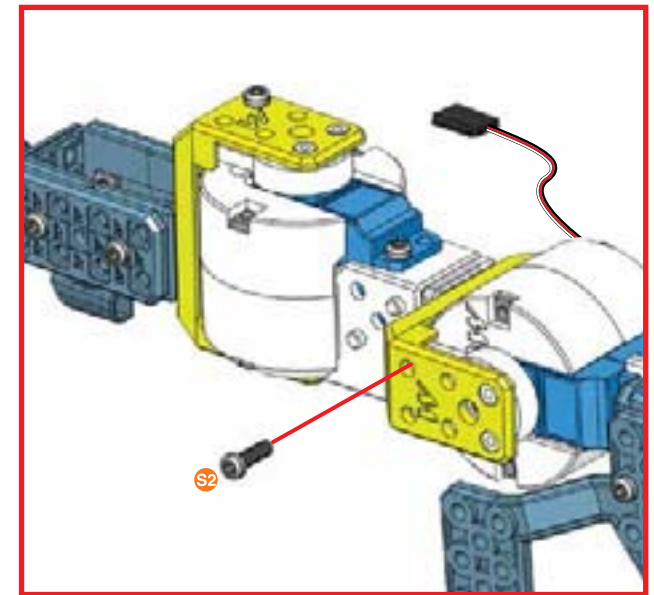
 **M2** | **1:1**



19

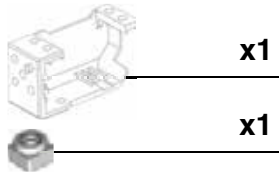
 **S2** | 9,5 mm  
3/8" | **x1**

 **S2** | **1:1**

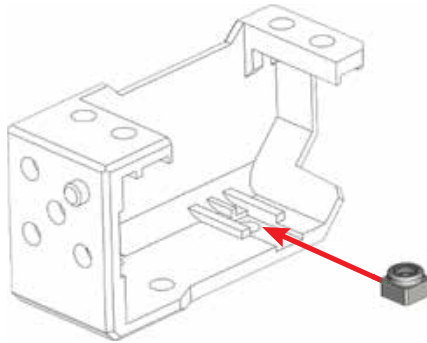


## Instructions for: Right arm

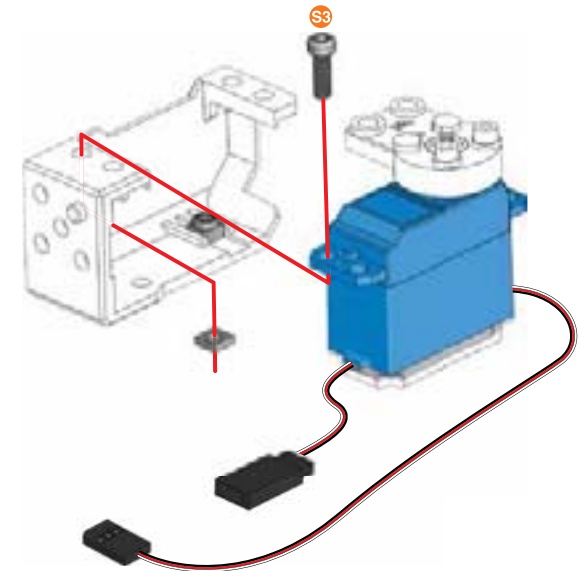
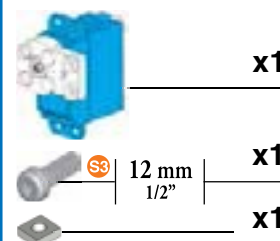
1



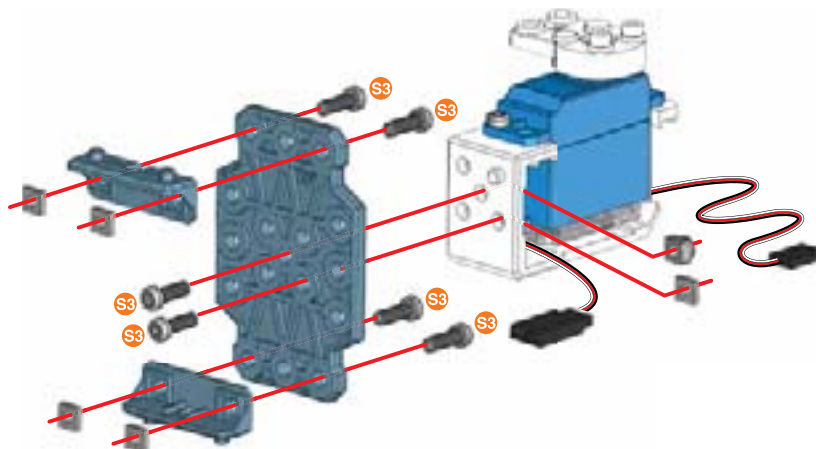
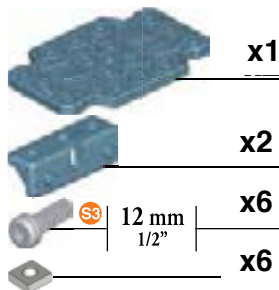
Lock  
Nut!



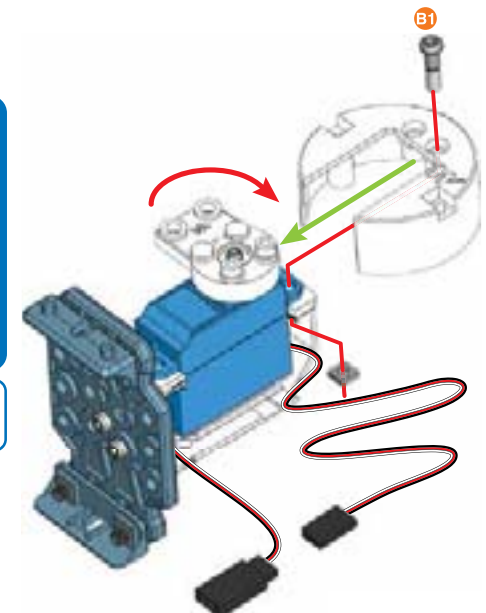
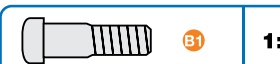
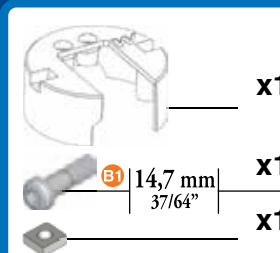
2



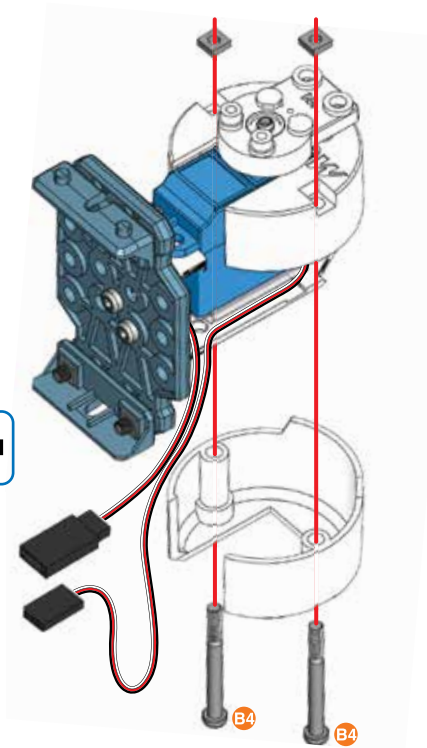
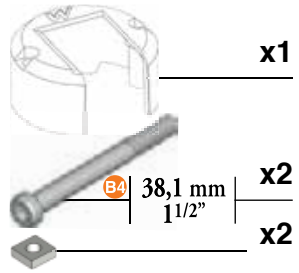
3



4

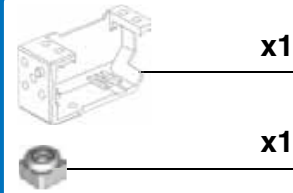


5

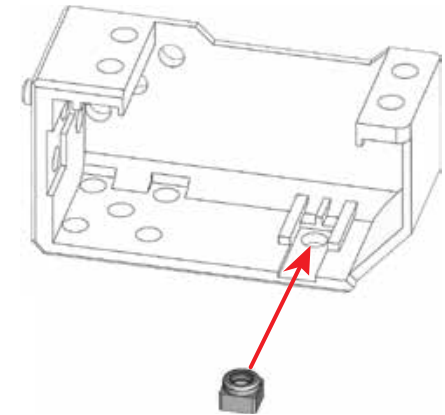


**Give this shoulder motor to the teammate building the body.  
They are probably waiting for it.**

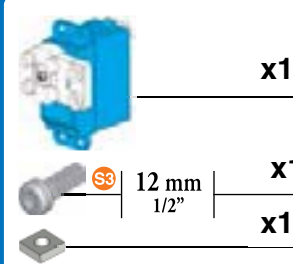
6



Lock  
Nut!

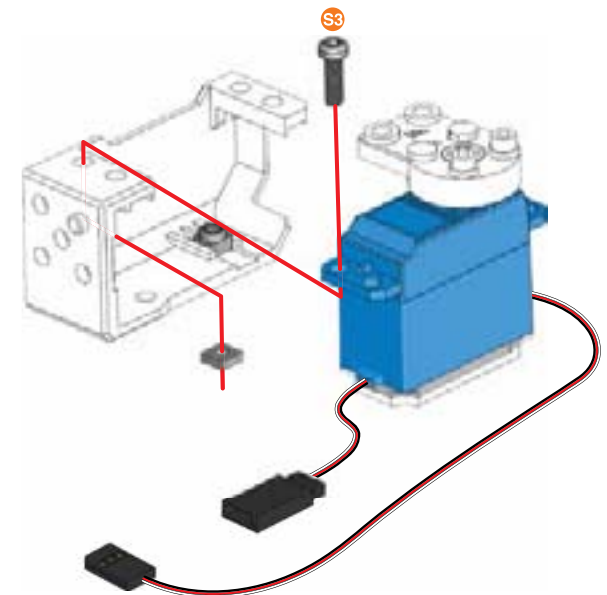


7



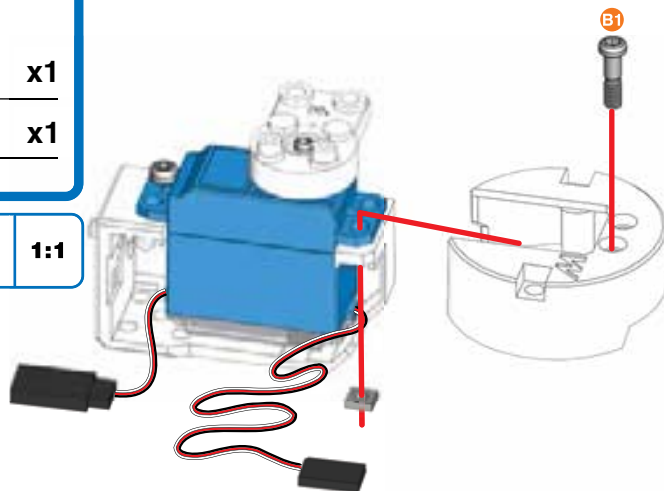
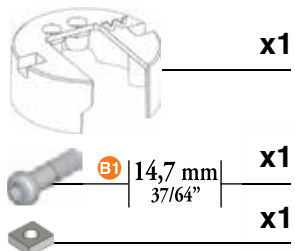
S3

1:1

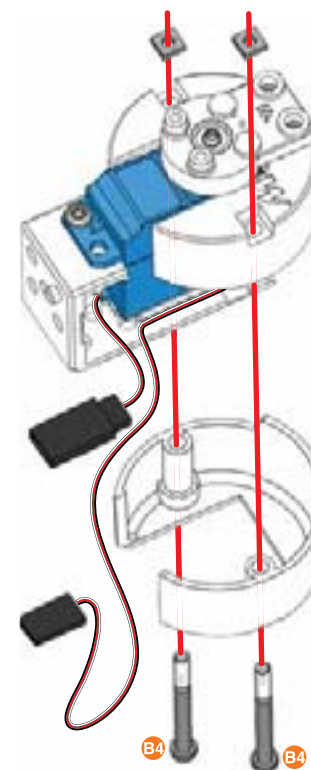
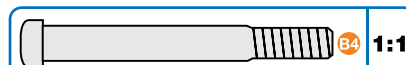
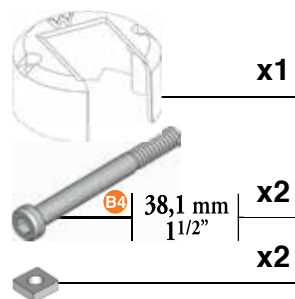




8

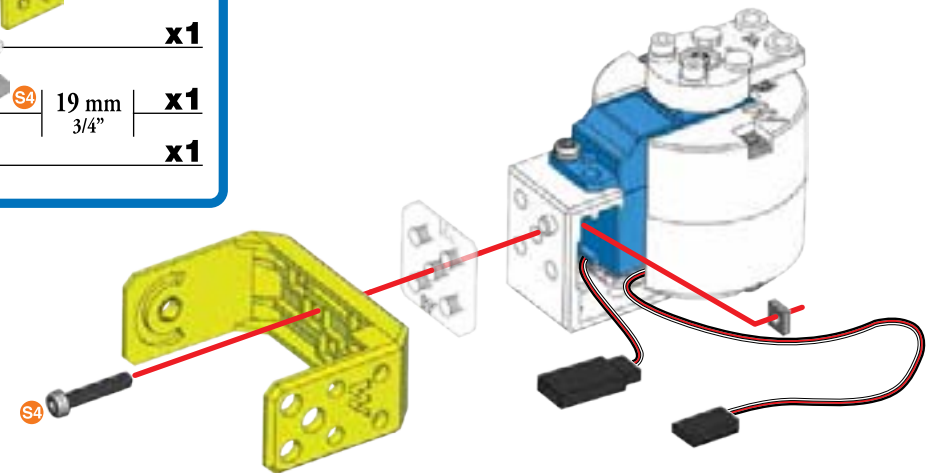
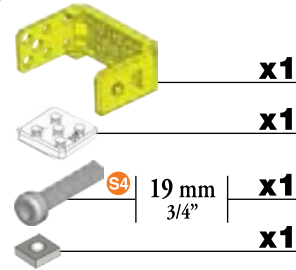


9

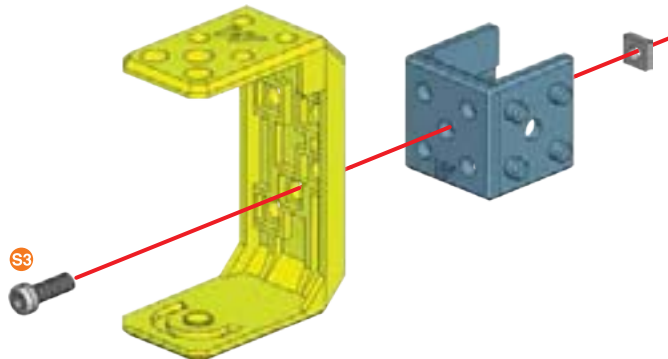
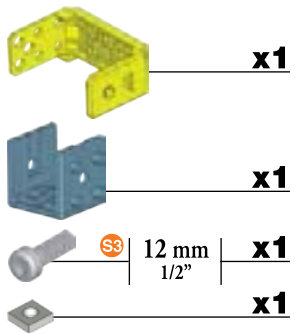




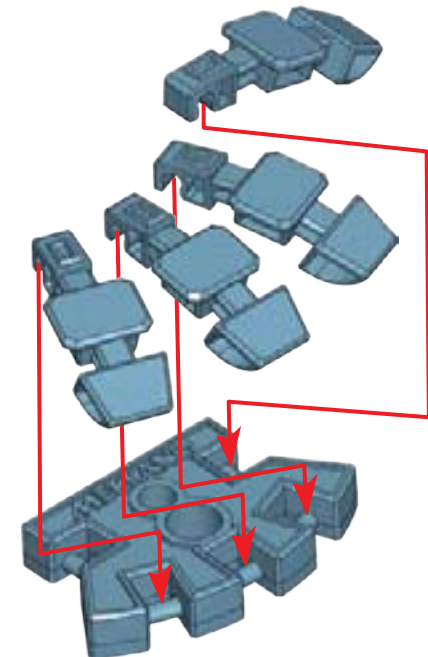
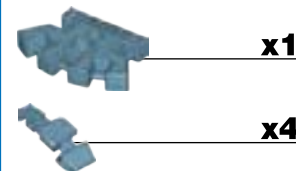
10




11



12





13

 **x1**

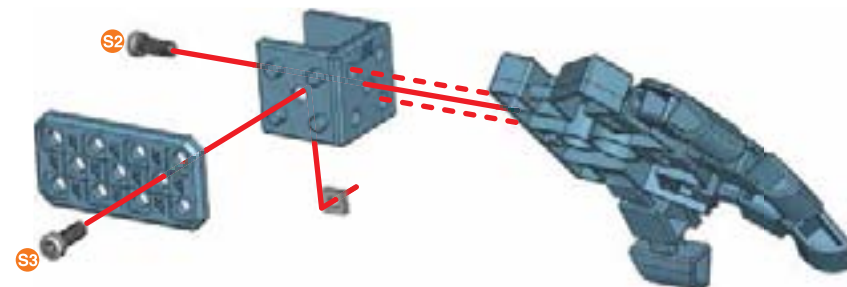

14

 **x1**
 **x1**
 **S3** | 12 mm | **x1**  
1/2"


 **S2** | 9,5 mm | **x1**  
3/8"


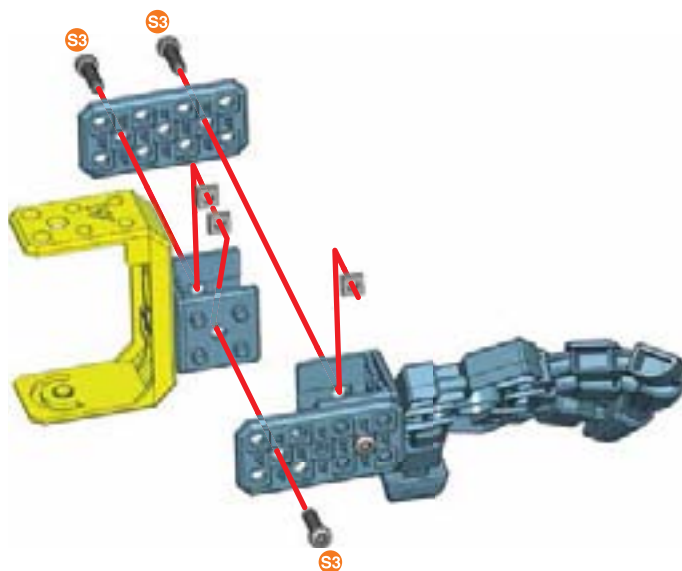
 **x1**

	<b>S3</b>	<b>1:1</b>
	<b>S2</b>	



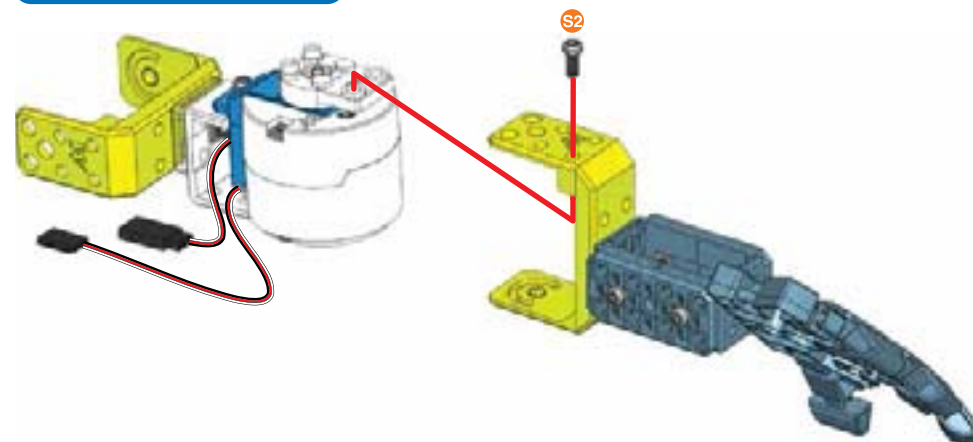
15

 **x1**
 **S3** | 12 mm | **x3**  
1/2"

 **x3**
 **S3** | **1:1**


16

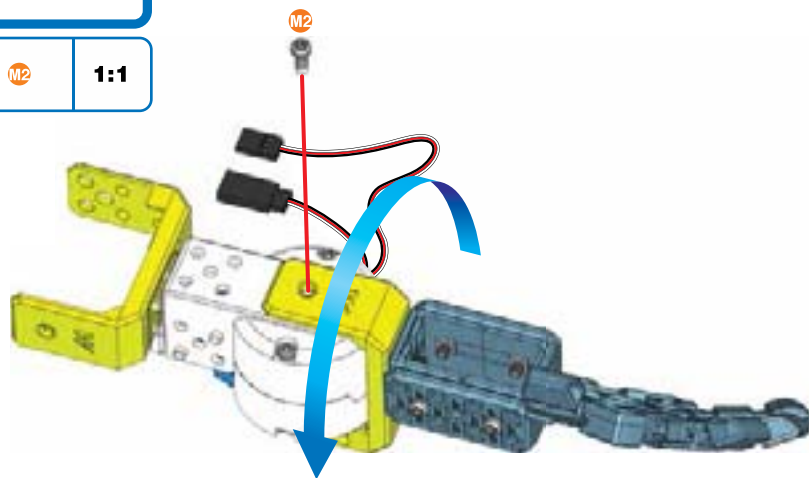
 **S2** | 9,5 mm | **x1**  
3/8"

 **S2** | **1:1**




17

	M2	10,5 mm 7/16"	x1
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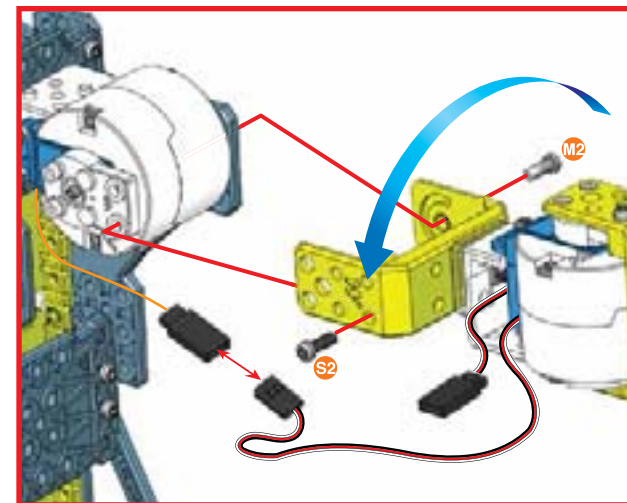
	M2	1:1
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18

	M2	10,5 mm 7/16"	x1
	S2	9,5 mm 3/8"	x1

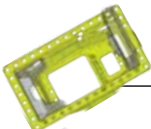
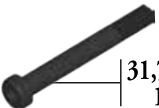


	M2	1:1
	S2	1:1




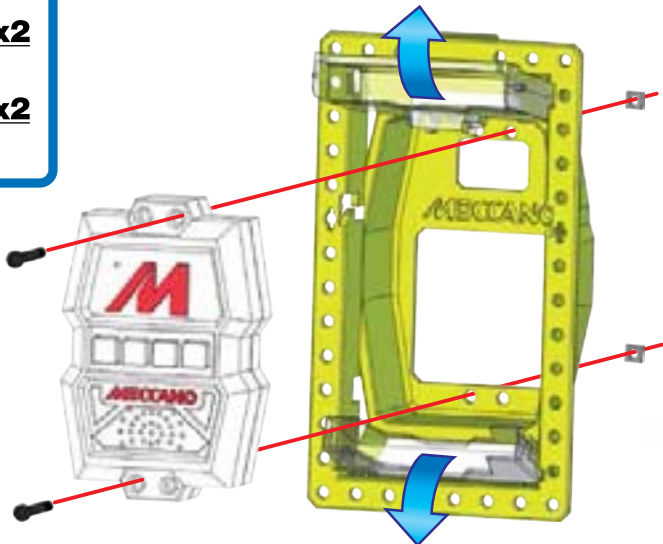
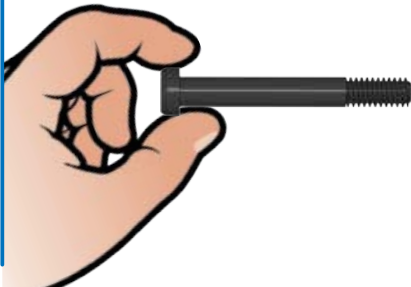
Instructions for: Body








1


	x1		31,75 mm 1 1/4"	x2
	x1			x2

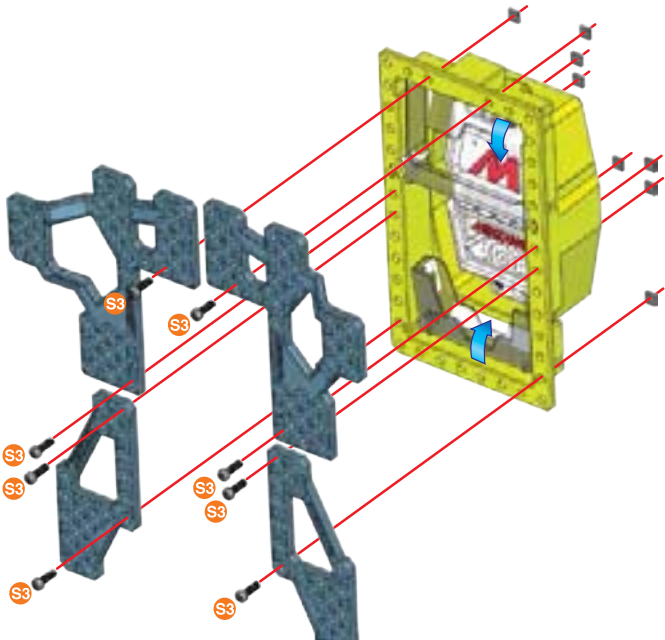
 1:1






2


	x1	
	x1	
	x2	
 S3	12 mm 1/2"	x8
		x8

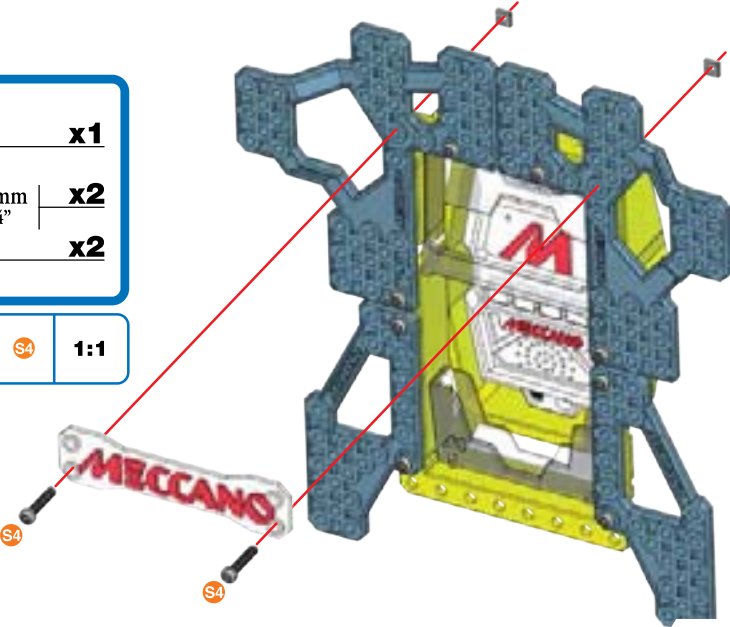
 S3 1:1

A diagram showing the dark grey frame being attached to the robot's body. Red lines indicate the placement of pins and bush. Blue arrows show the direction of assembly.

3

	x1	
 S4	19 mm 3/4"	x2
		x2

 S4 1:1



A diagram showing the Meccano logo being attached to the robot's body. Red lines indicate the placement of pins and bush. Blue arrows show the direction of assembly.



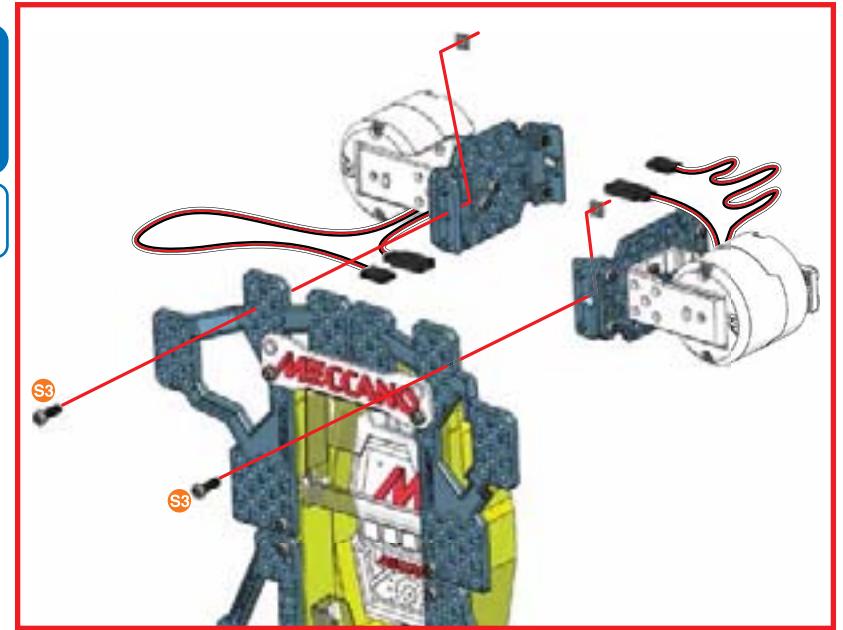
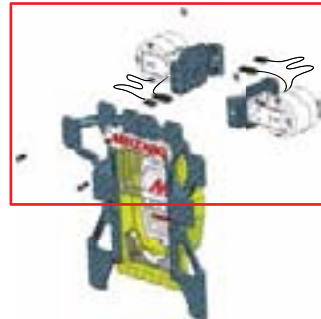
If your teammates are still working on the shoulder motors then skip over step 4 and return to it once the shoulder motors are ready.

Tip:  
Blue motors should be facing the back.

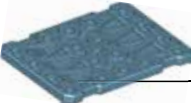



4

	12 mm 1/2"	<b>x2</b>
		<b>x2</b>

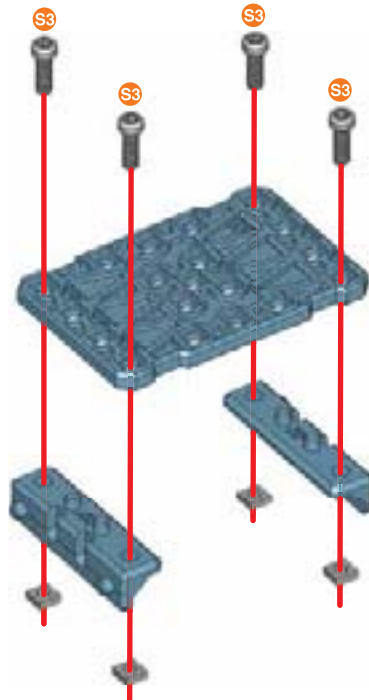
	<b>1:1</b>
---	------------






5

	<b>x1</b>
	<b>x2</b>
	12 mm 1/2"
	<b>x4</b>

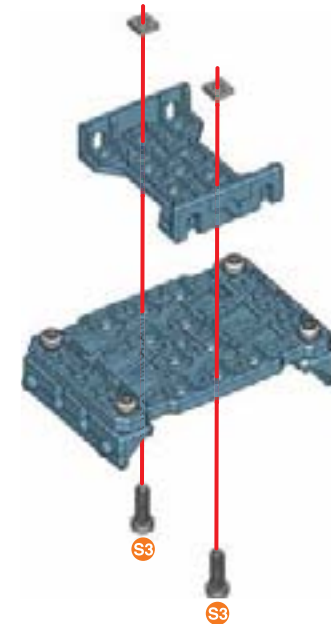
	<b>1:1</b>
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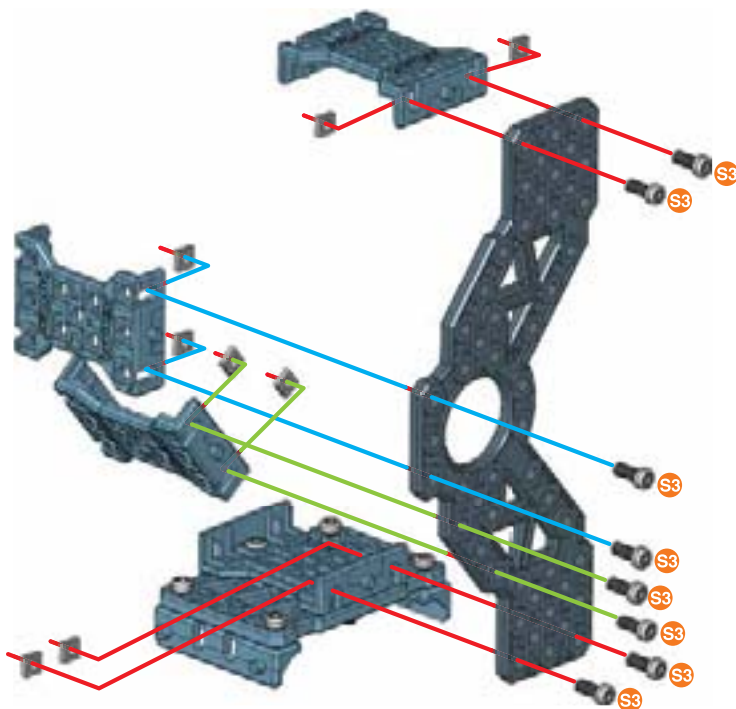
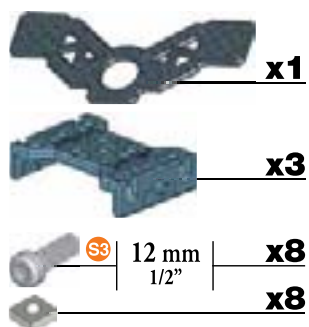
6

	<b>x1</b>
	12 mm 1/2"
	<b>x2</b>

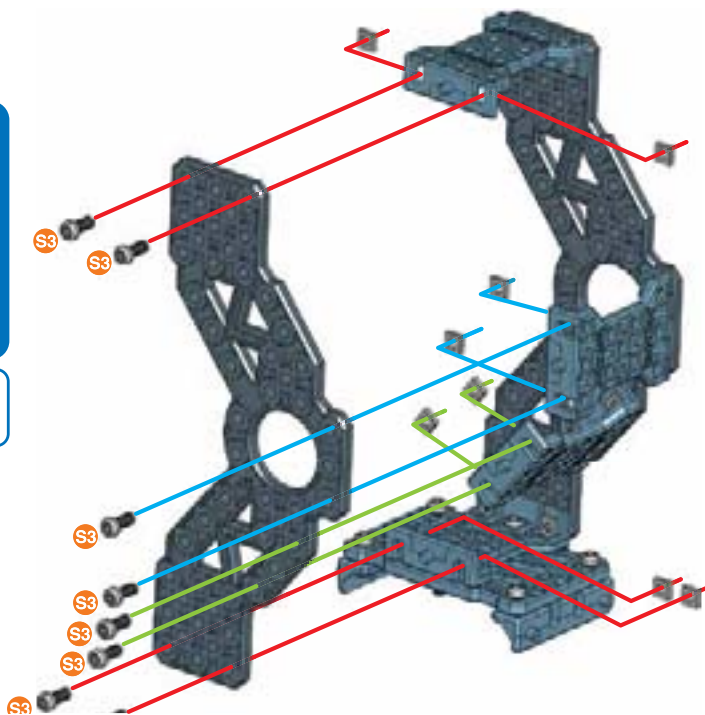
	<b>1:1</b>
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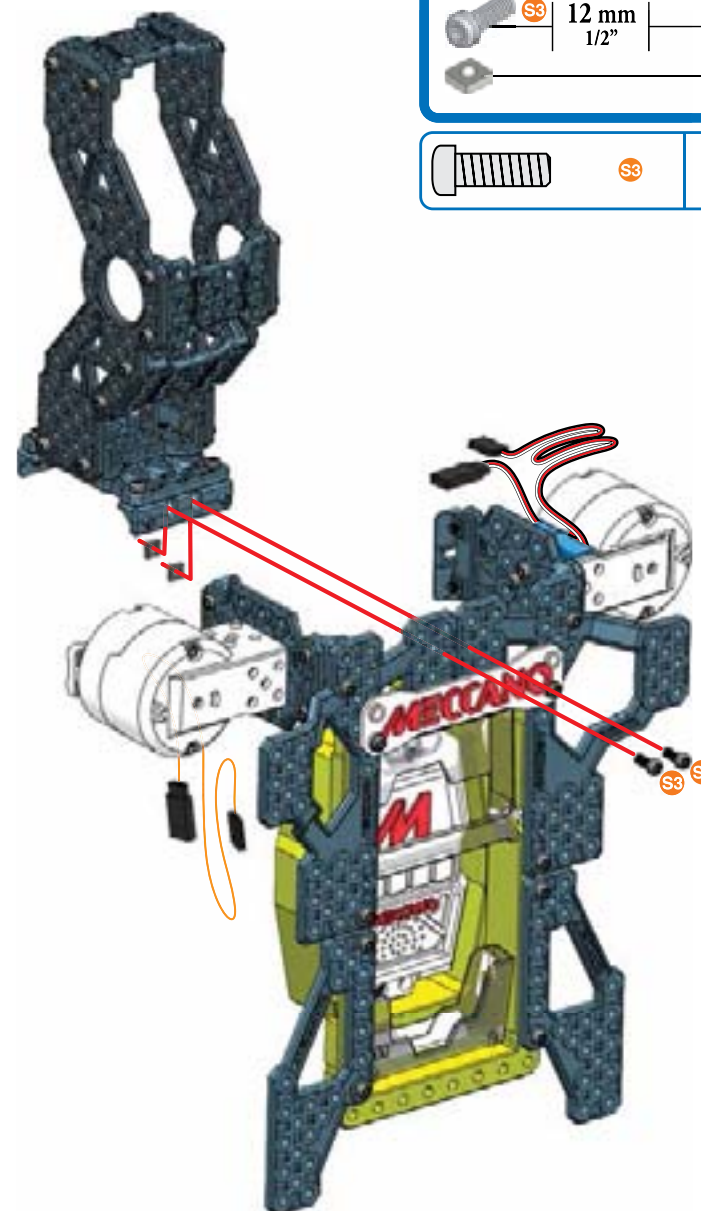
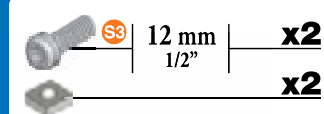
7



9

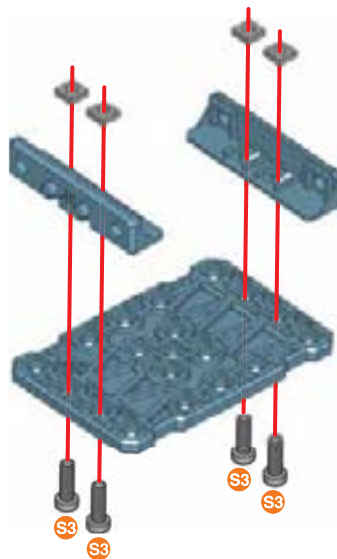
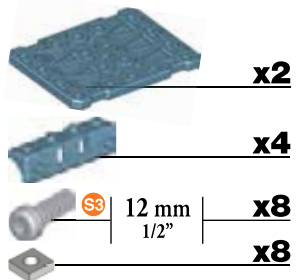


8





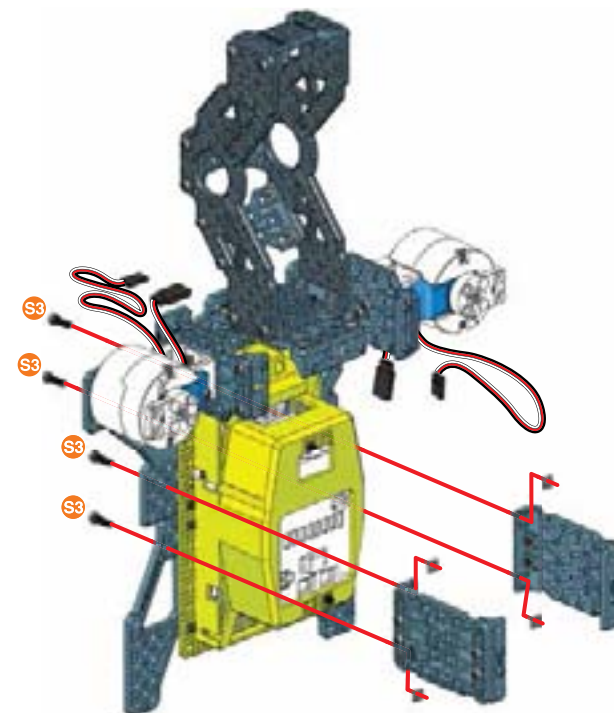
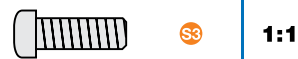
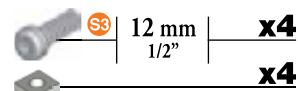
10



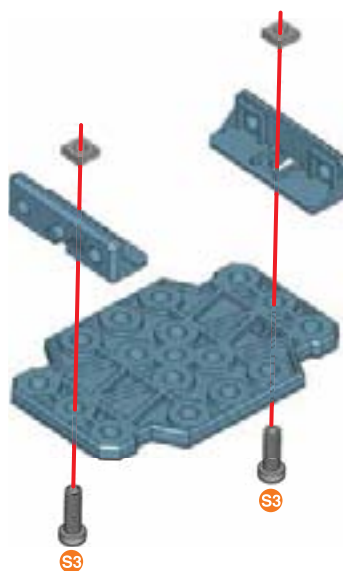
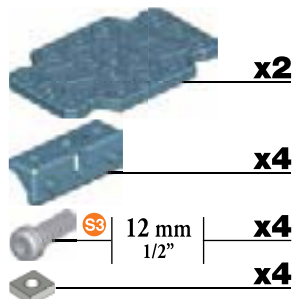
**x2**



11



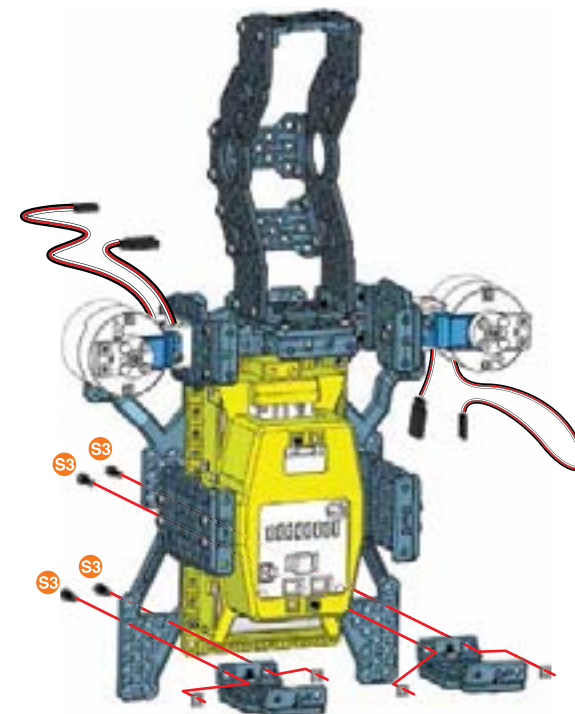
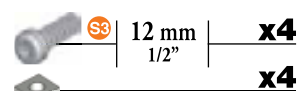
12



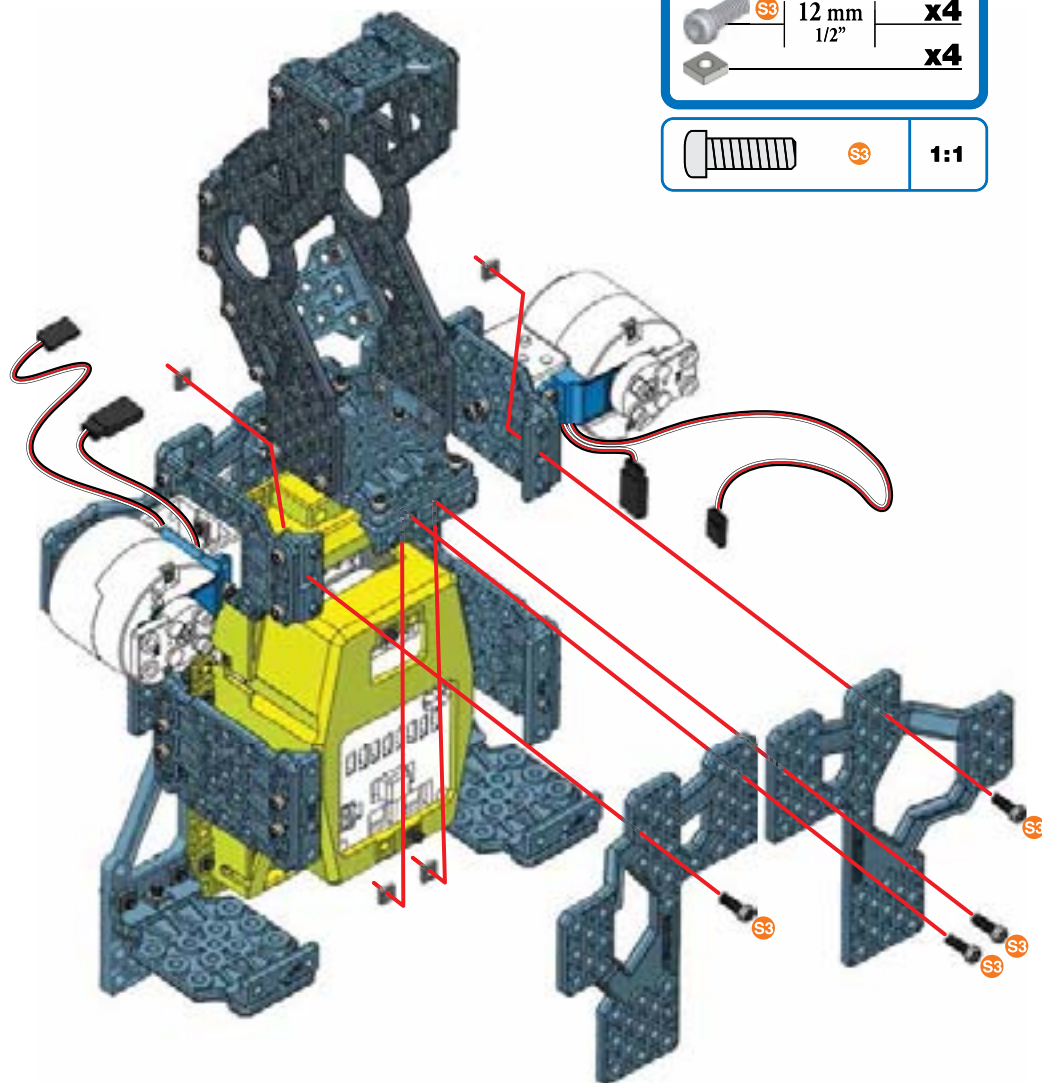
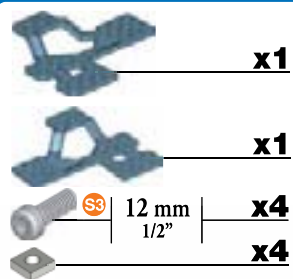
**x2**



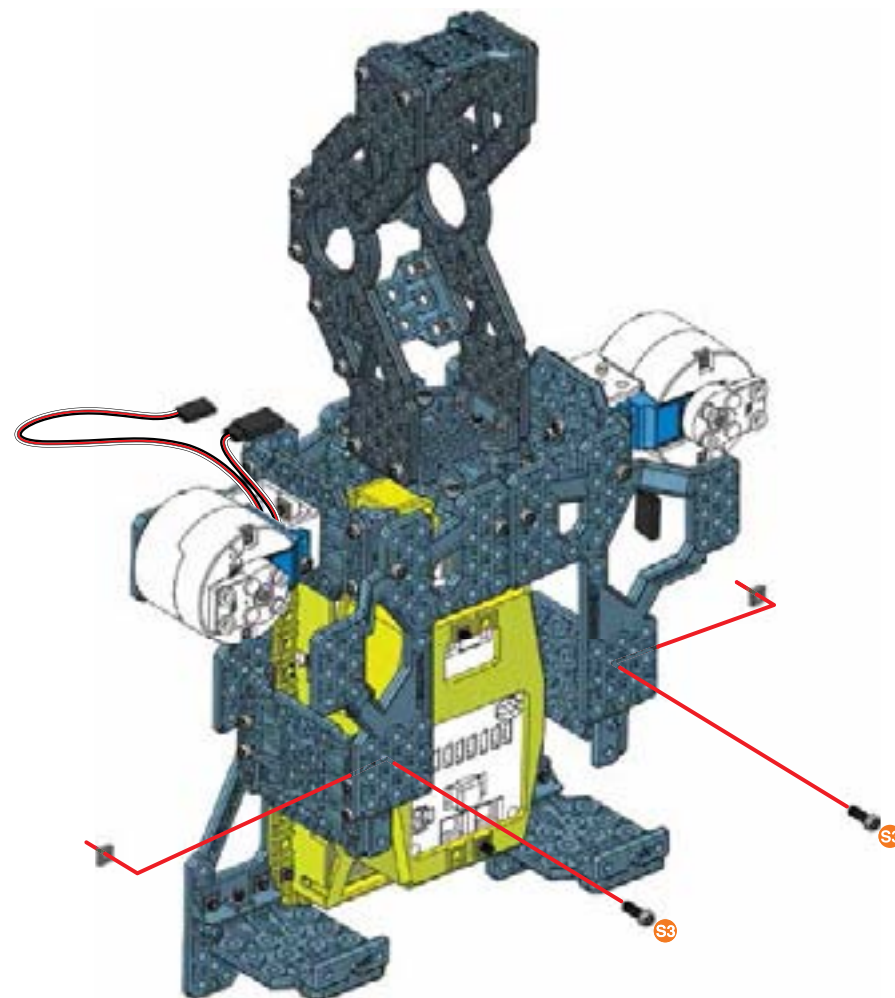
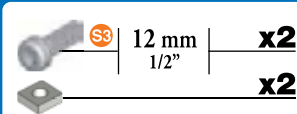
13



14



15





16



x2

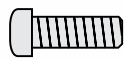


12 mm  
1/2"

x6

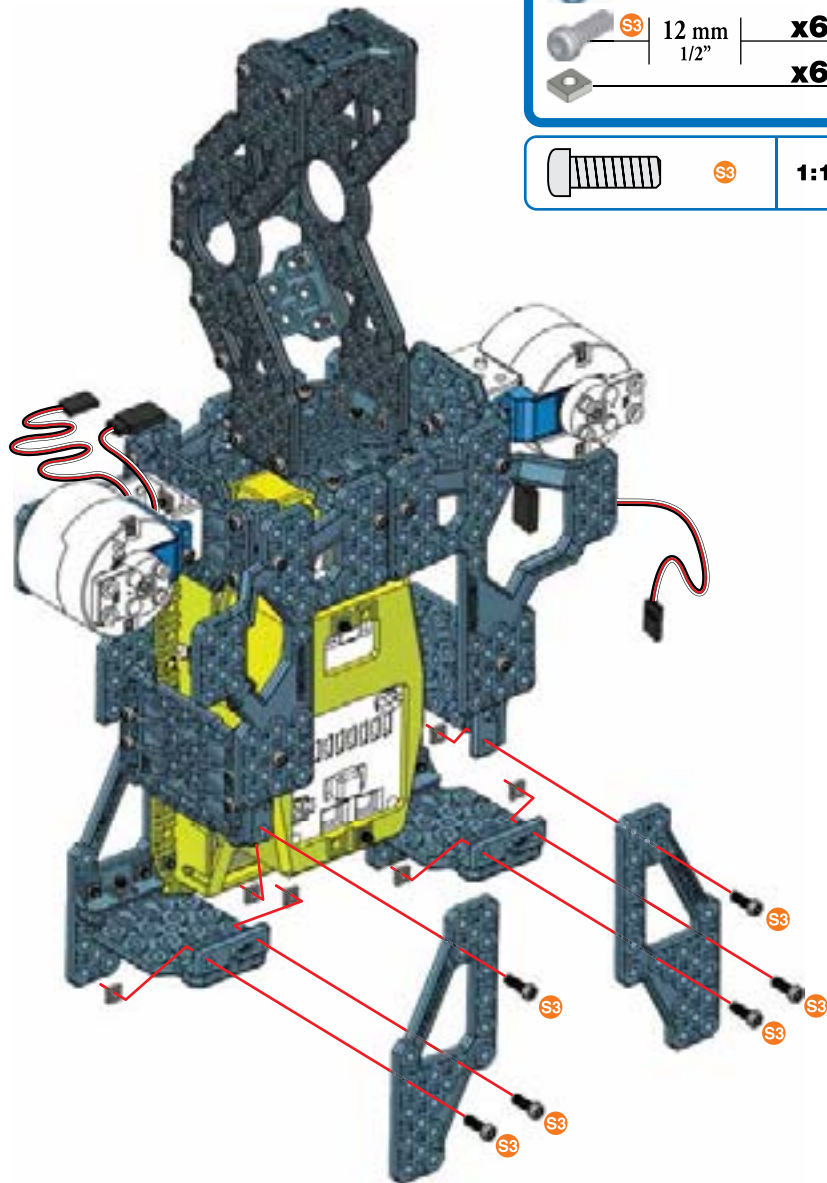


x6



S3

1:1



17



x1

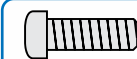


12 mm  
1/2"

x4

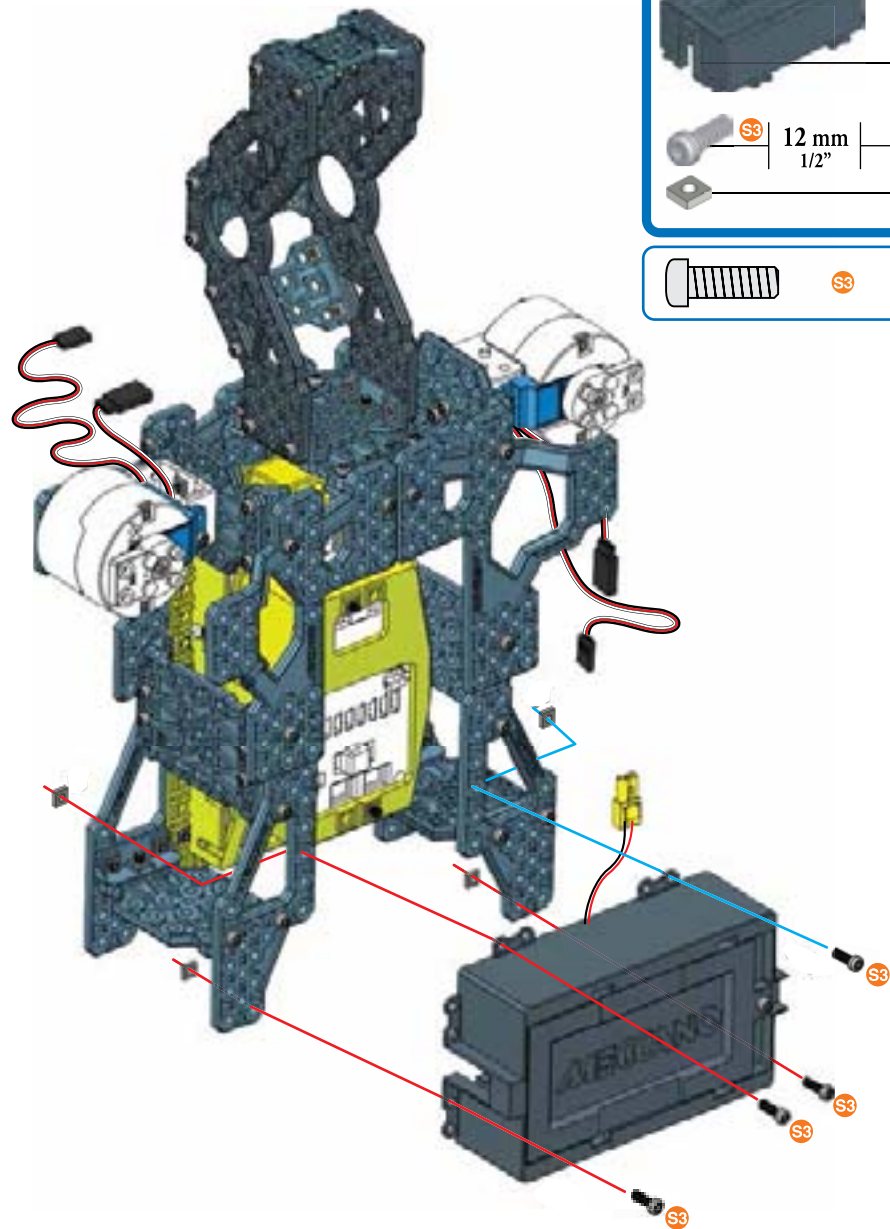


x4

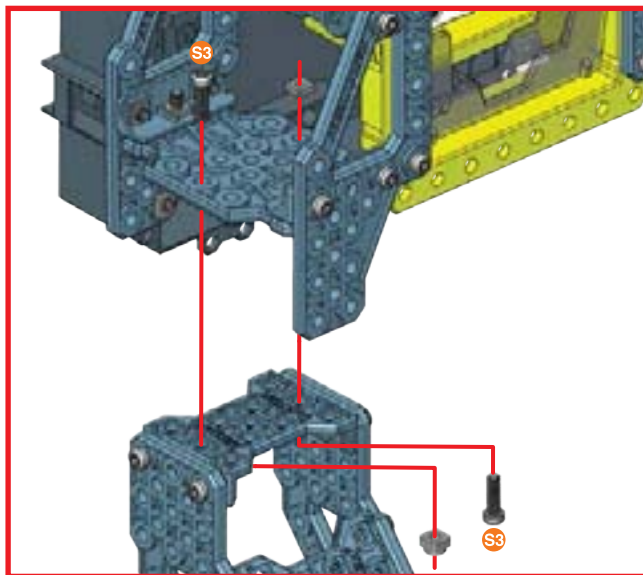
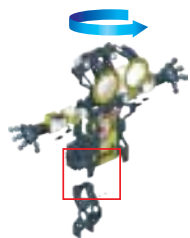
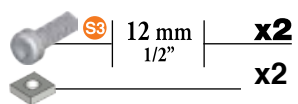


S3

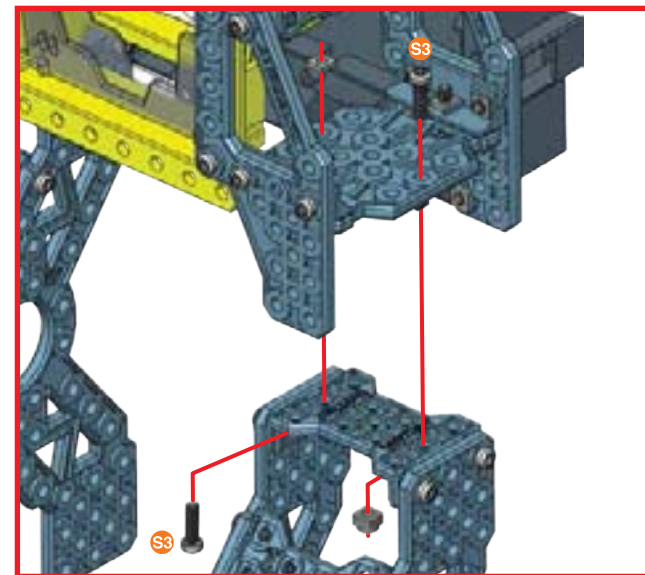
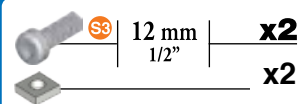
1:1



18





19



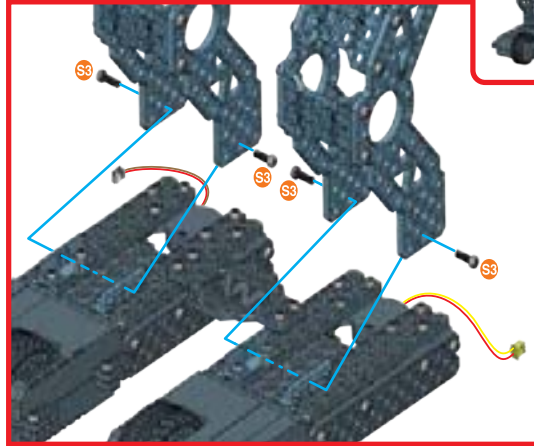
20




21

	S3	12 mm 1/2"	<b>x4</b>
			<b>x4</b>

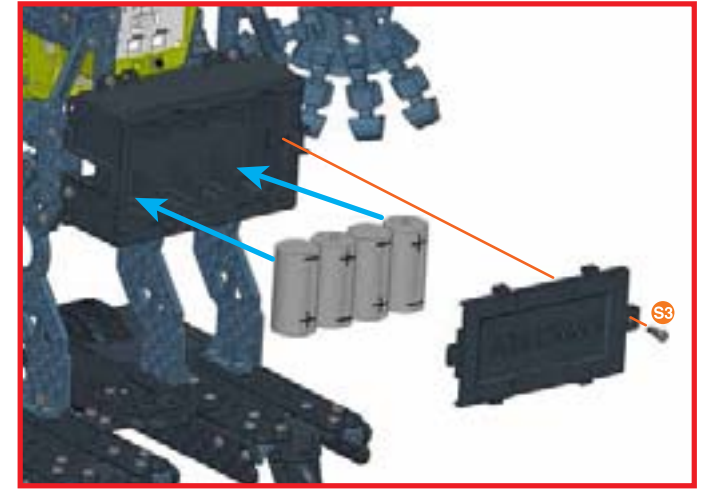
	S3	<b>1:1</b>
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22

	S3	12 mm 1/2"	<b>x1</b>
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	S3	<b>1:1</b>
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#### Ⓜ HOW TO INSTALL BATTERIES

**1.** Open the battery door with a Meccano tool. **2.** If used batteries are present, remove these batteries from the unit by pulling up on one end of each battery. **DO NOT** remove or install batteries using sharp or metal tools. **3.** Install new batteries as shown in the polarity diagram (+/-) inside the battery compartment. **4.** Replace battery door securely. **5.** Check your local laws and regulations for correct recycling and/or battery disposal.

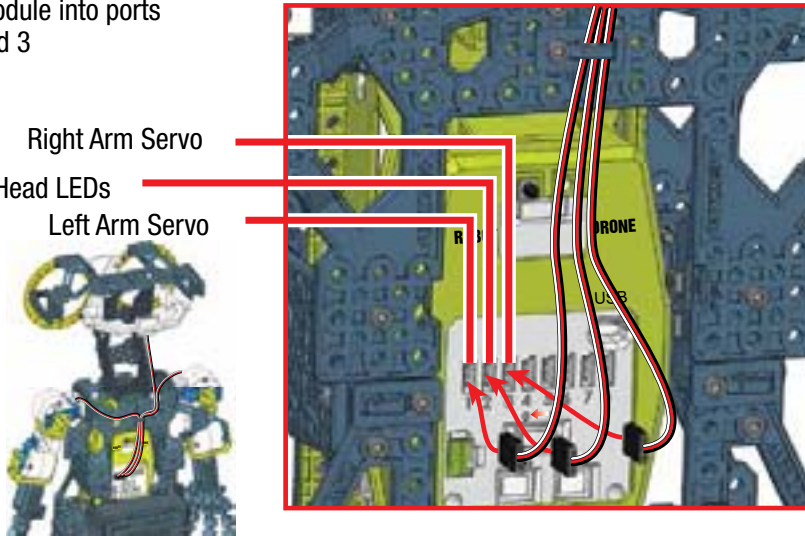


## 2.2 CONNECT THE ELECTRONICS

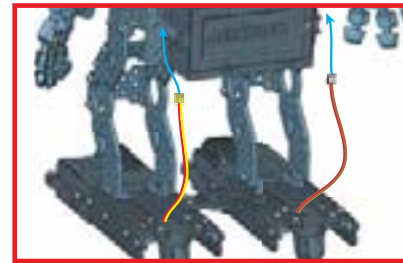
23

Plug in servos and  
LED module into ports  
1, 2 and 3

Right Arm Servo  
Head LEDs  
Left Arm Servo

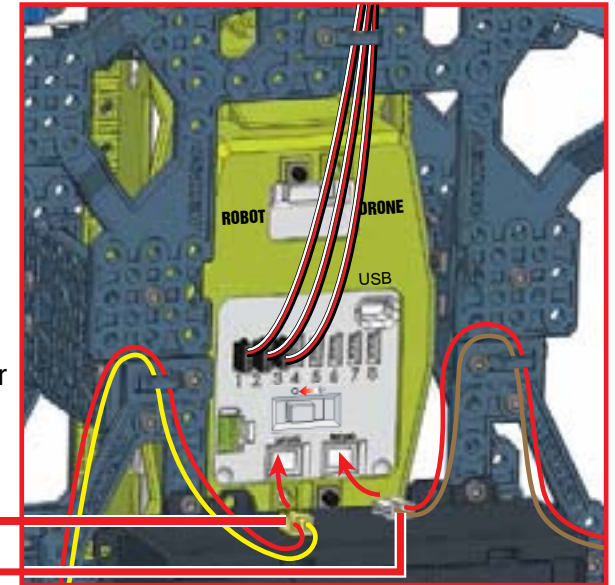


24



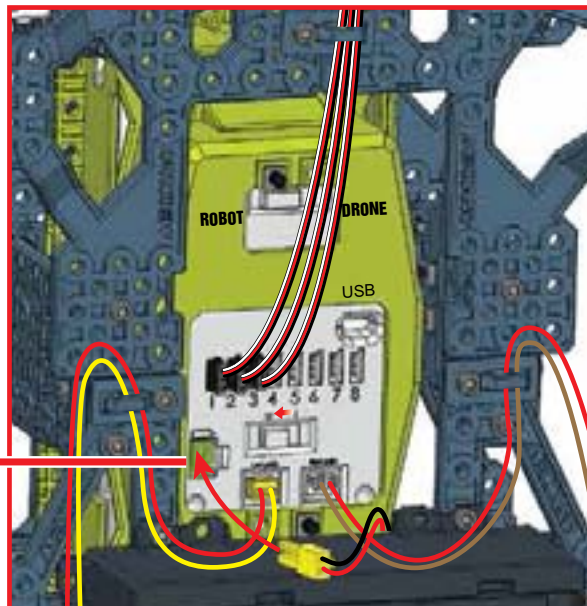
Left Foot Motor      Right Foot Motor

Plug in  
left foot motor  
and right foot motor.



25

Plug in battery cable

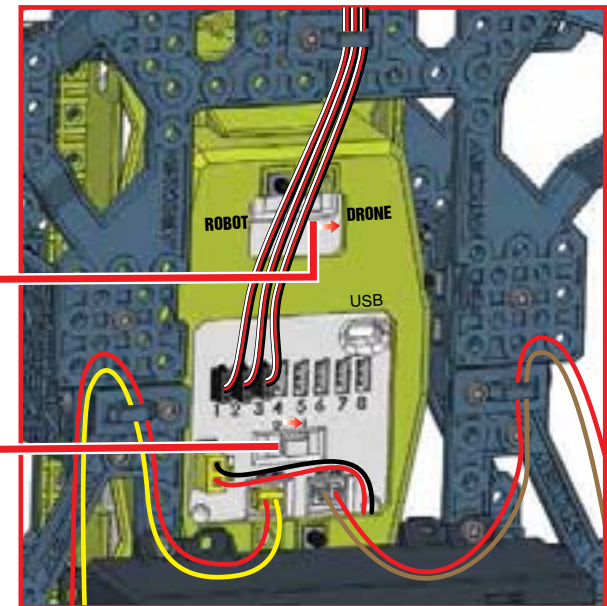


26

Make sure robot is in  
robot mode

Turn robot on

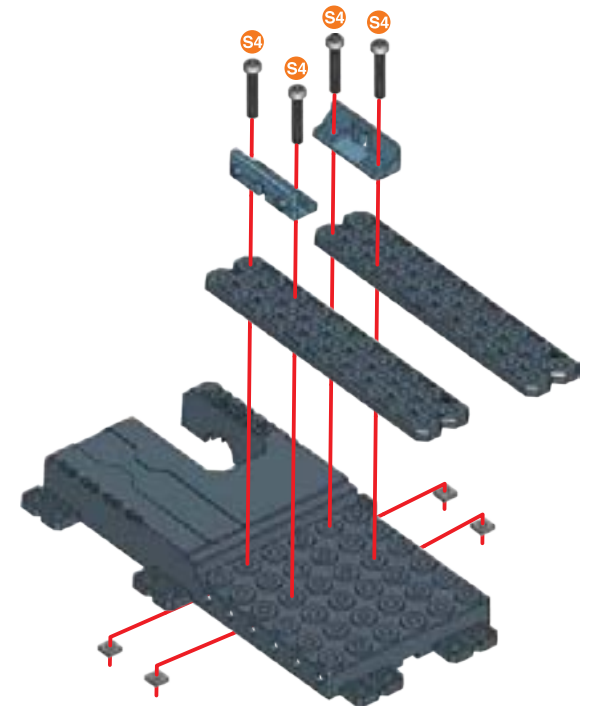
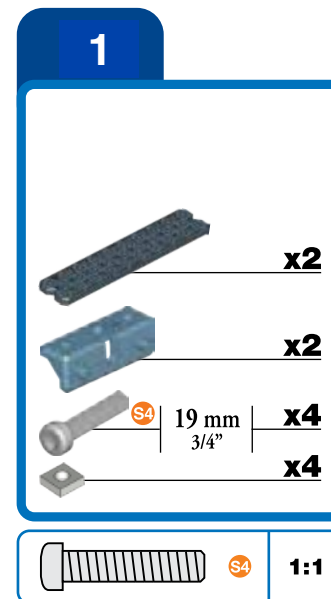
**Well done, your  
build is complete.**

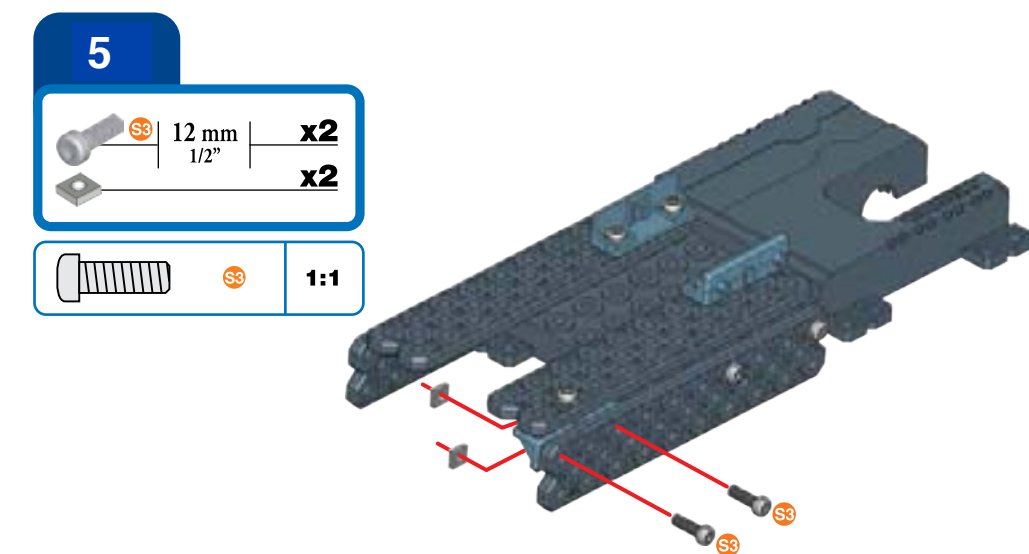
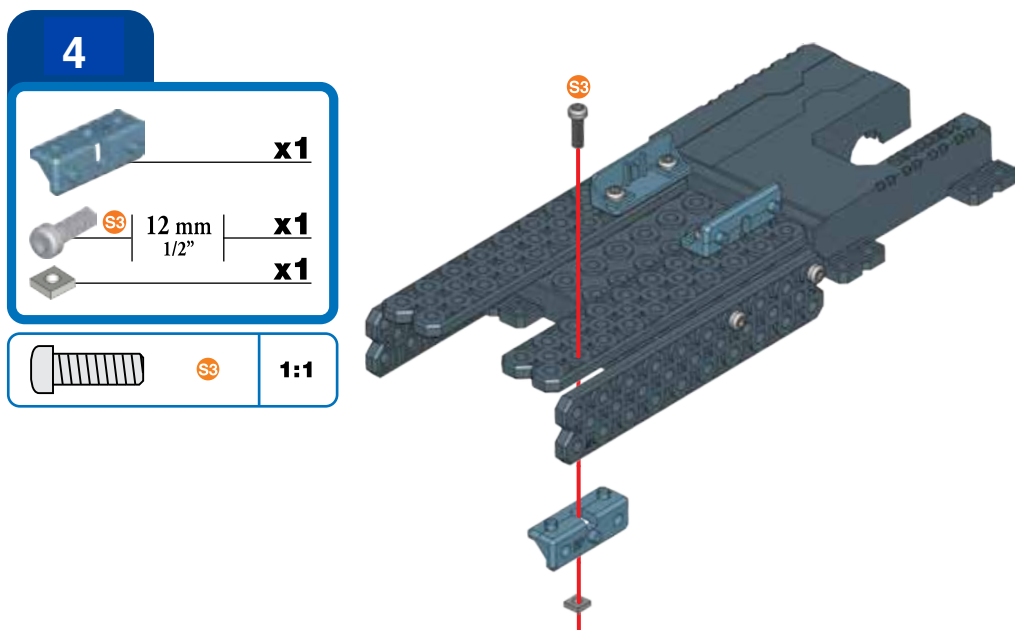
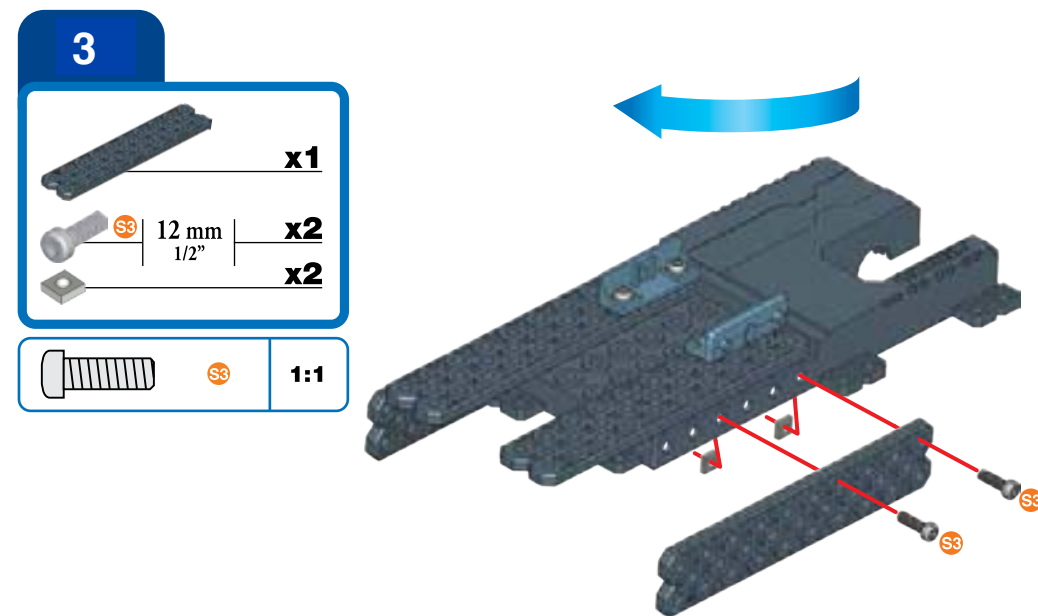
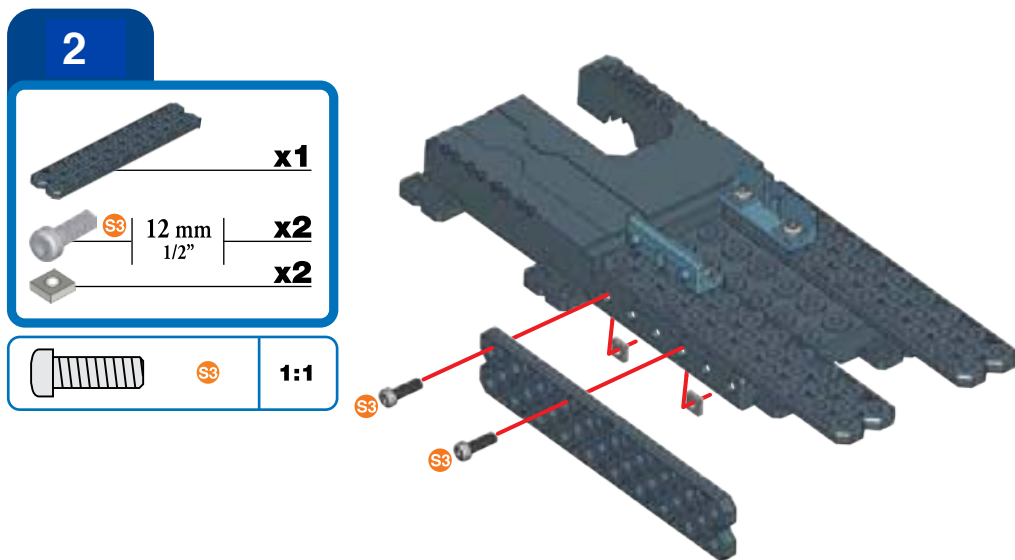




## Instructions for: Left leg

Warning, there is a left and right version of the big plastic part.  
Use the correct one.

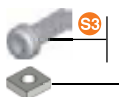




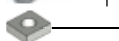
6



x1

12 mm  
1/2"

x1

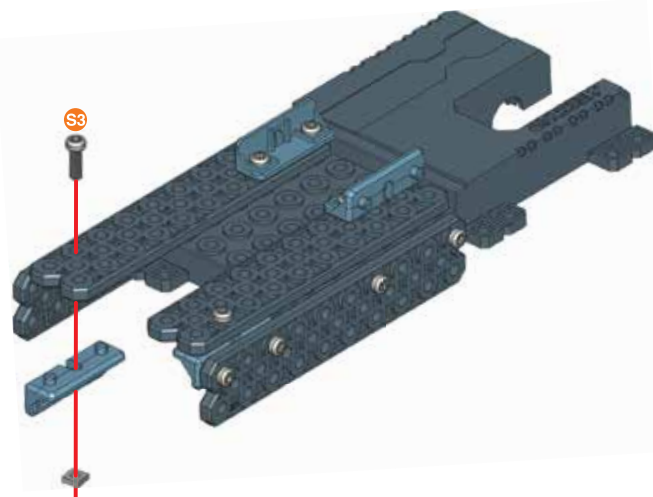


x1



S3

1:1



7

12 mm  
1/2"

x2

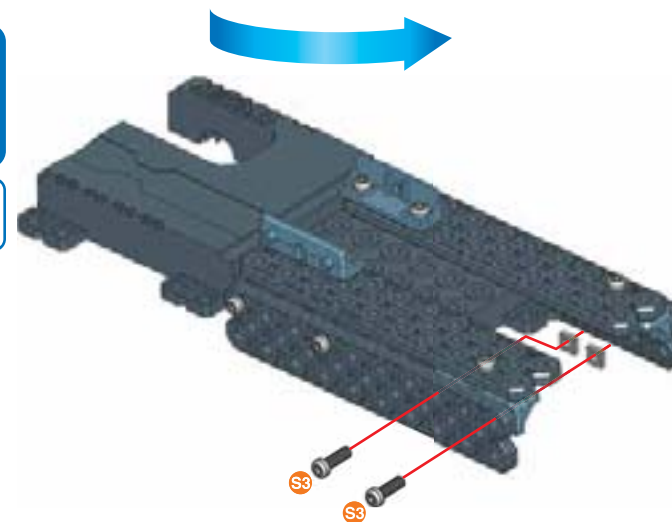


x2



S3

1:1



8



x1

19 mm  
3/4"

x2

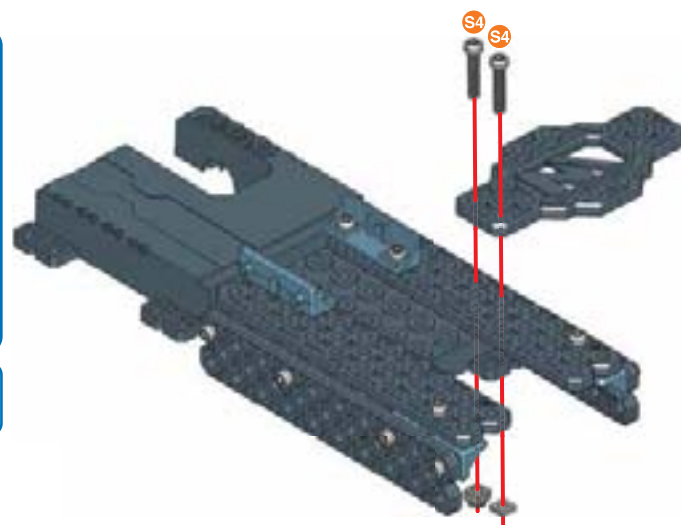


x2



S4

1:1



9



x1



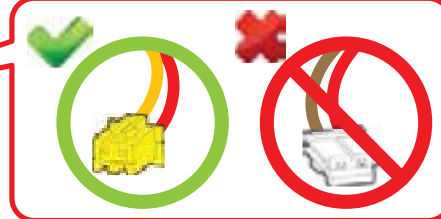
x1



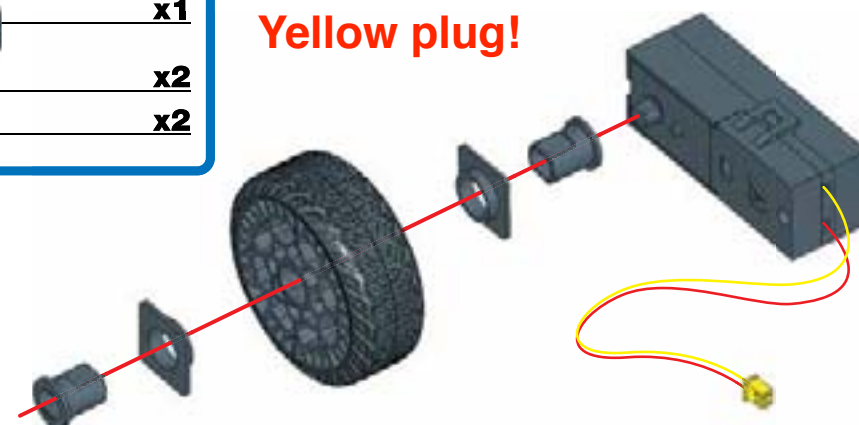
x2



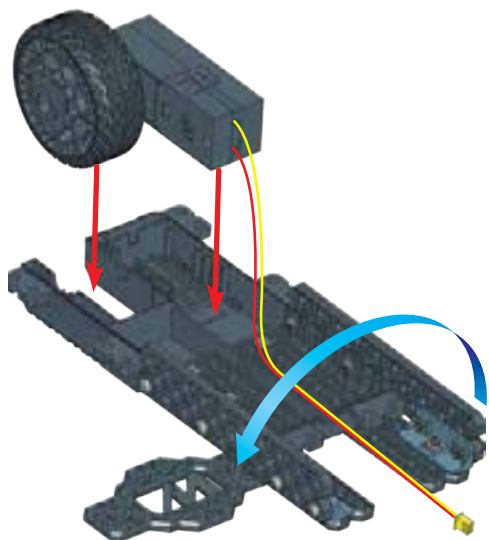
x2



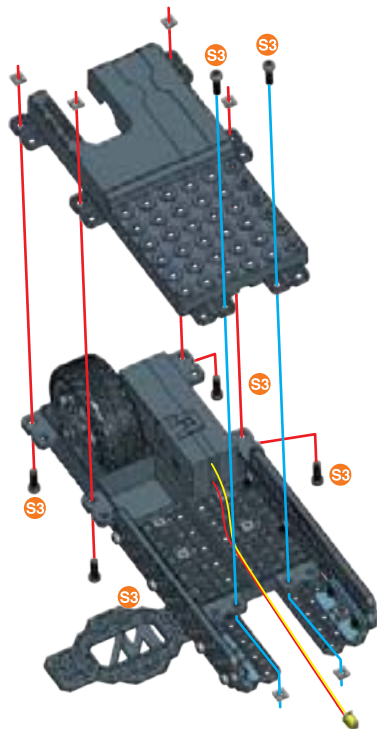
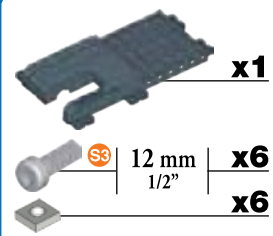
Yellow plug!



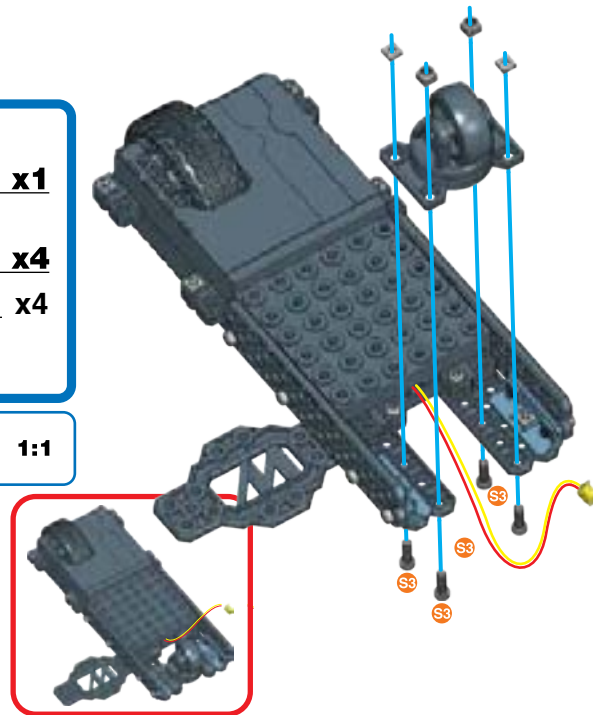
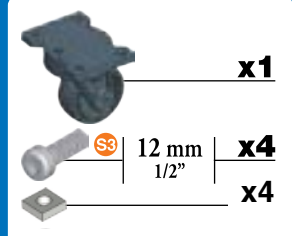
10



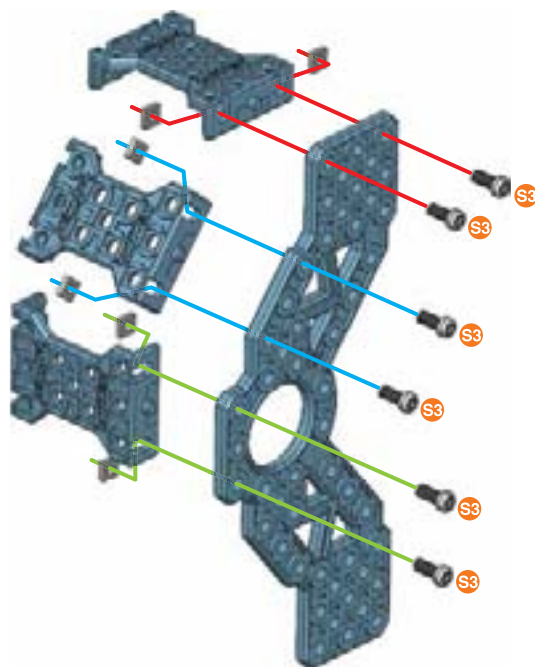
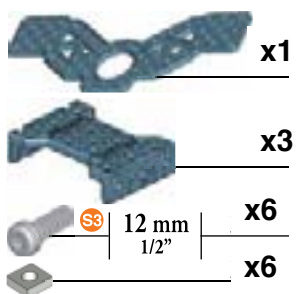
11



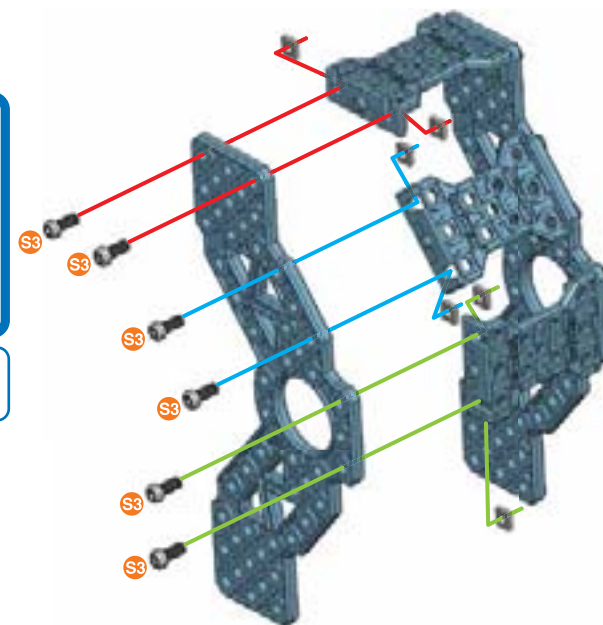
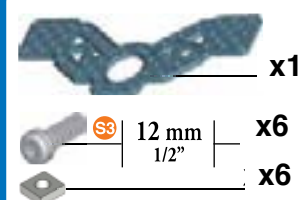
12



13








14

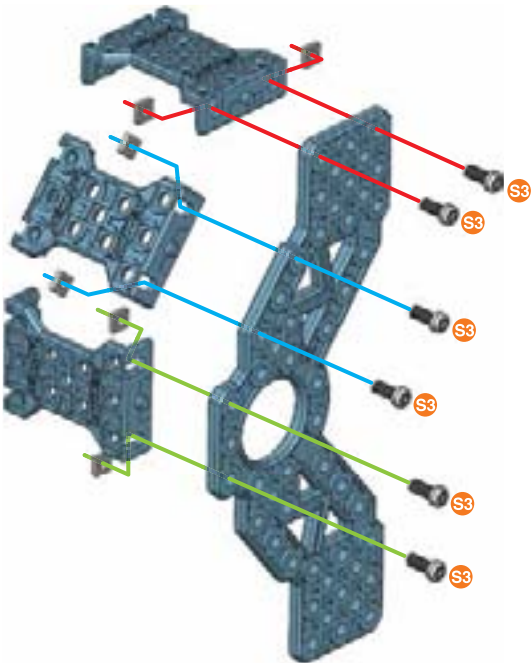








Instructions for: Right leg

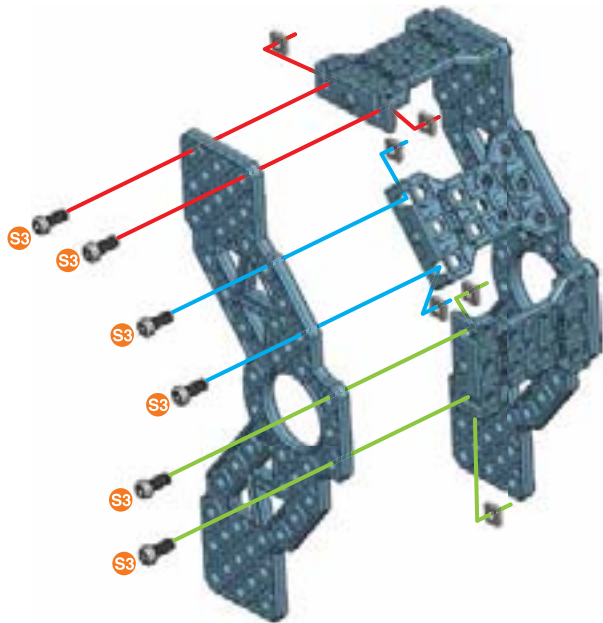
1

	x1
	x3
 S3   12 mm   1/2"	x6
	x6
 S3	1:1



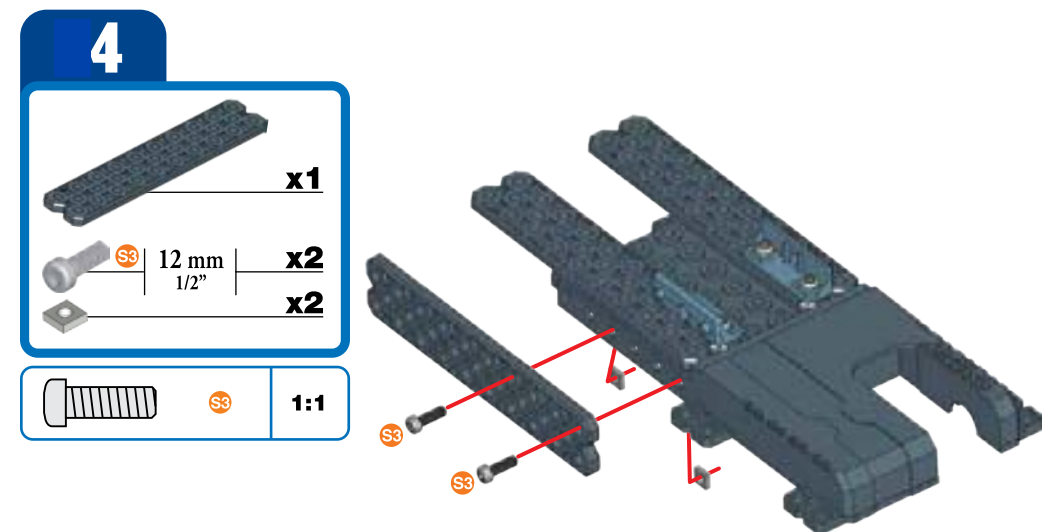
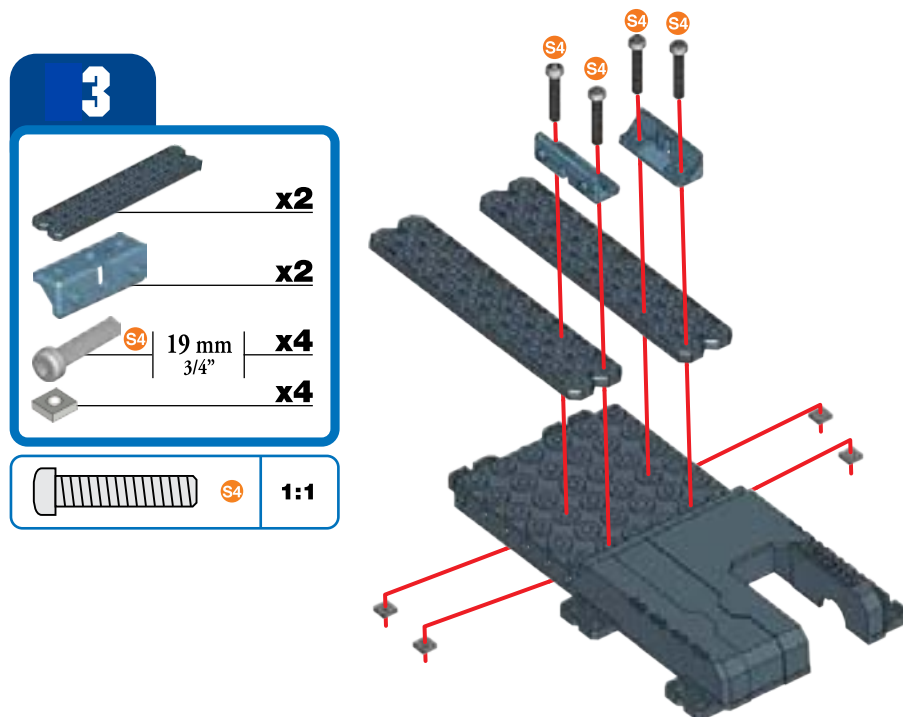
2

	x1
 S3   12 mm   1/2"	x6
	x6
 S3	1:1

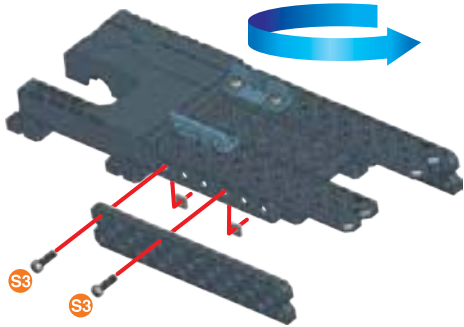
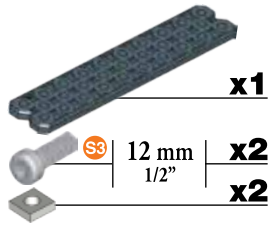




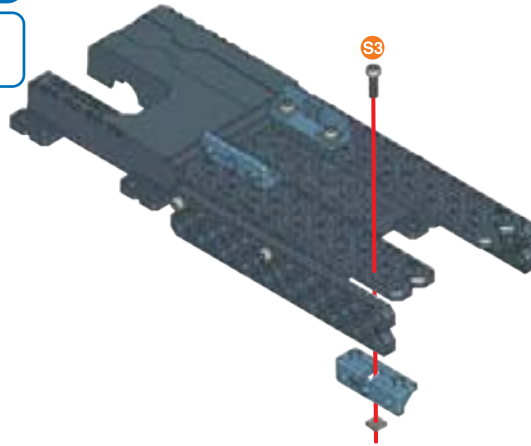
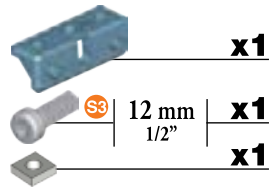
Warning, there is a left and right version of the big plastic part.  
Use the correct one.



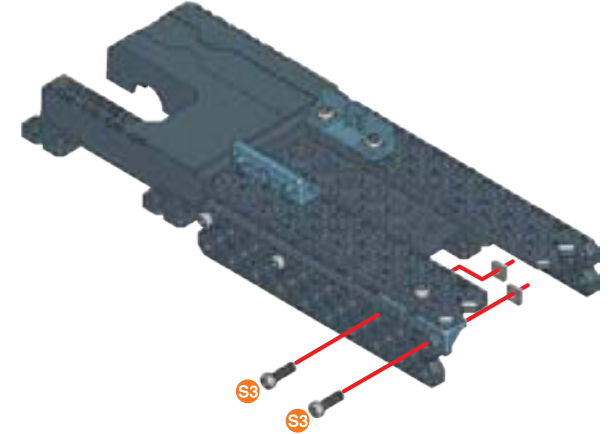
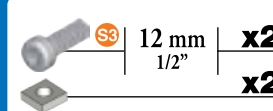
5



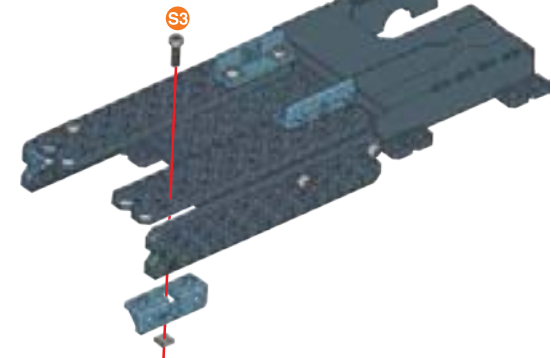
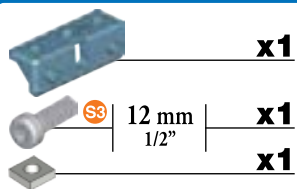
6



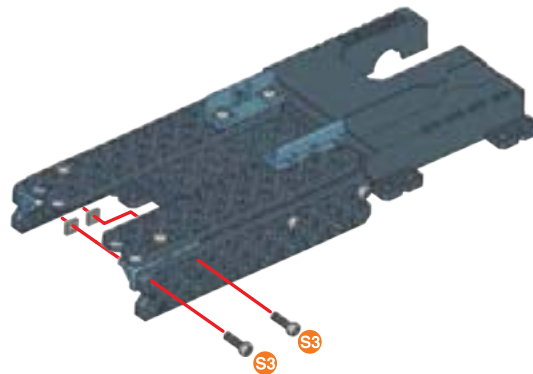
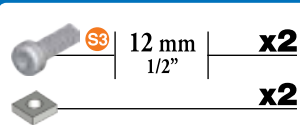
7



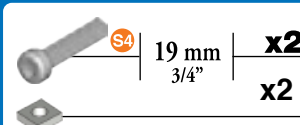
8



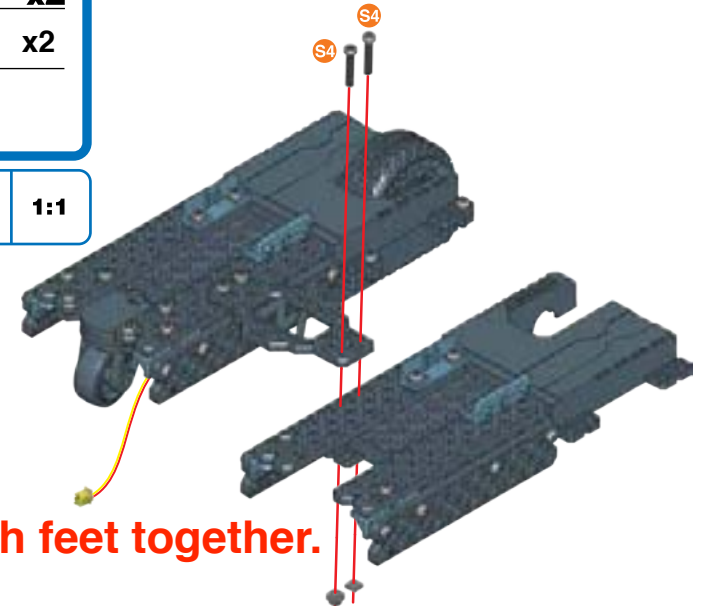
9



10

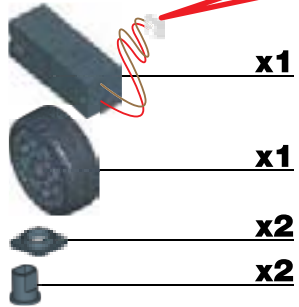


**Wait for your teammate to finish the left foot.**

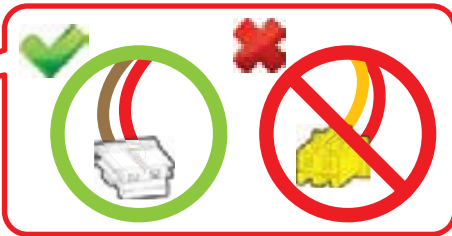
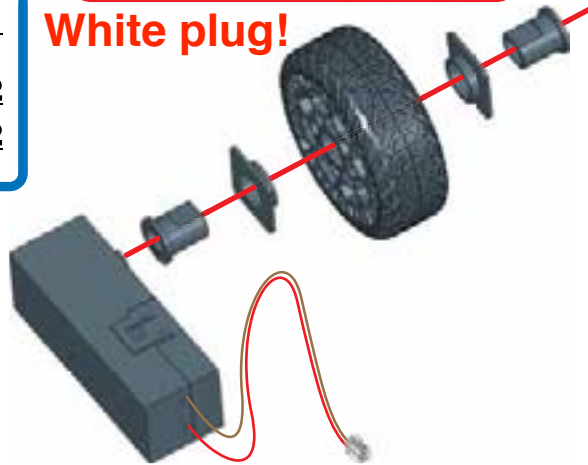


**Connect both feet together.**

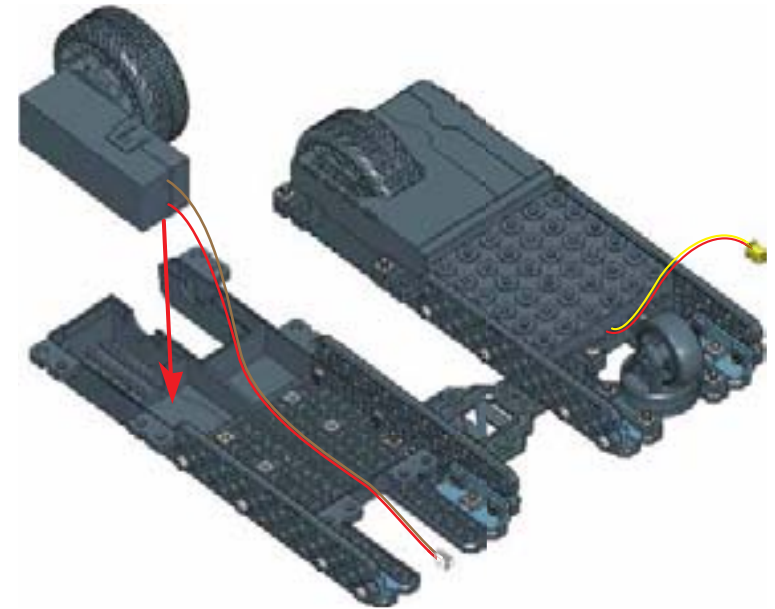
11



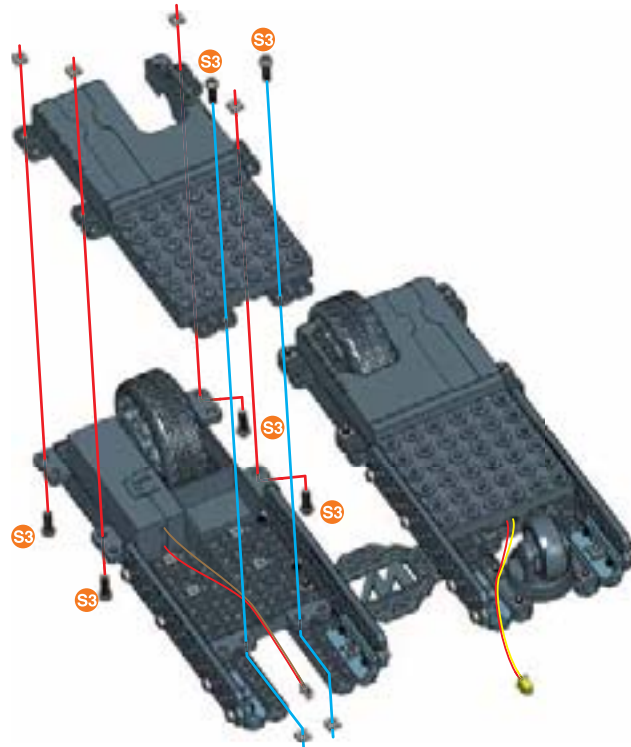
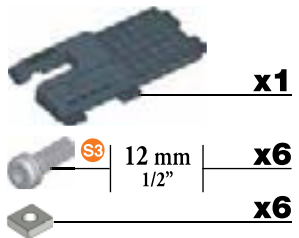
White plug!



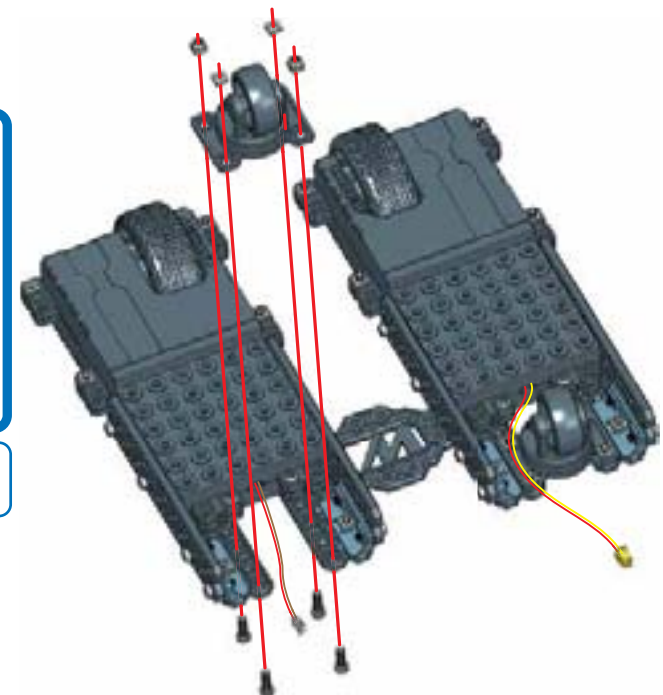
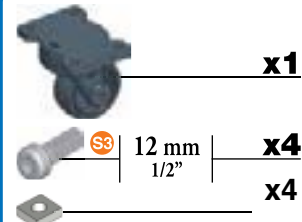
12



13

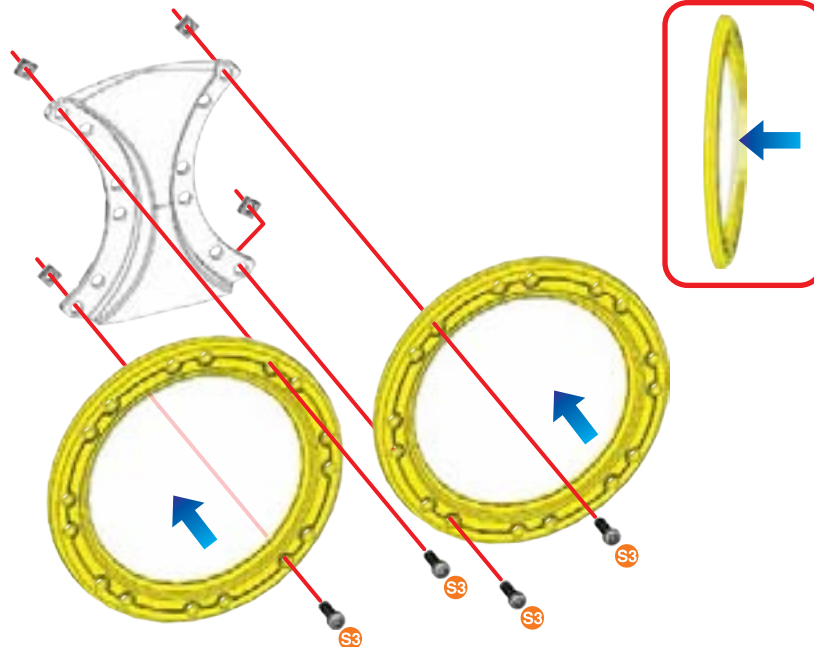
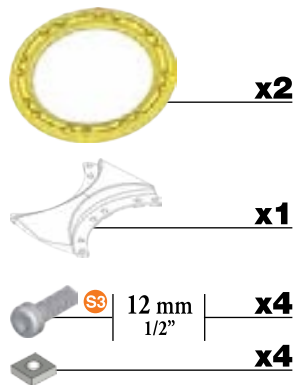


14

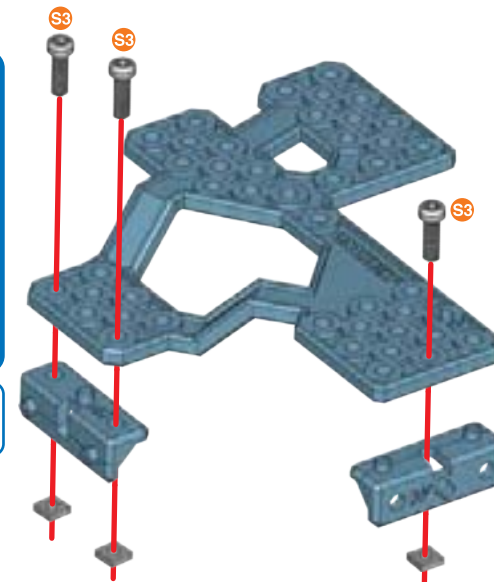
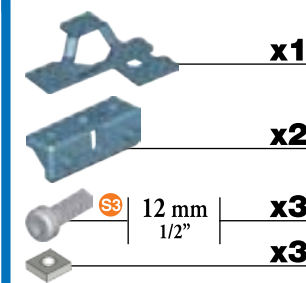


## Instructions for: Head

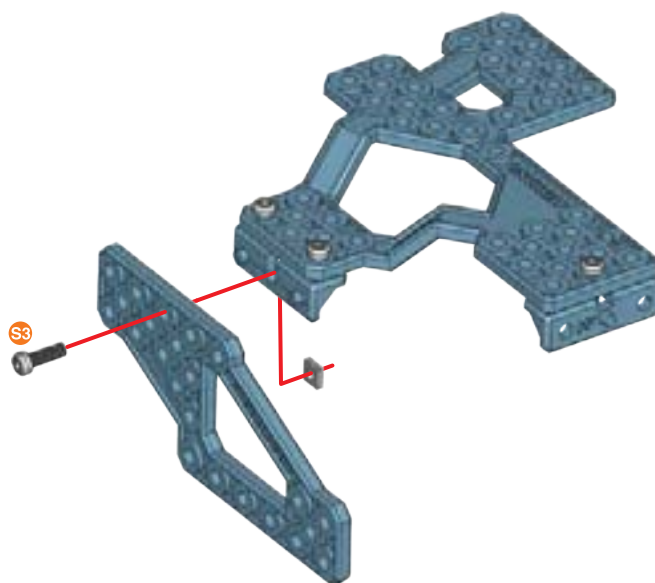
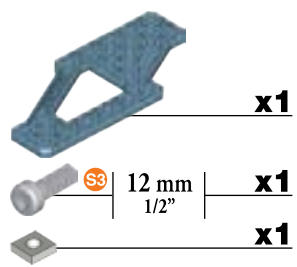
1



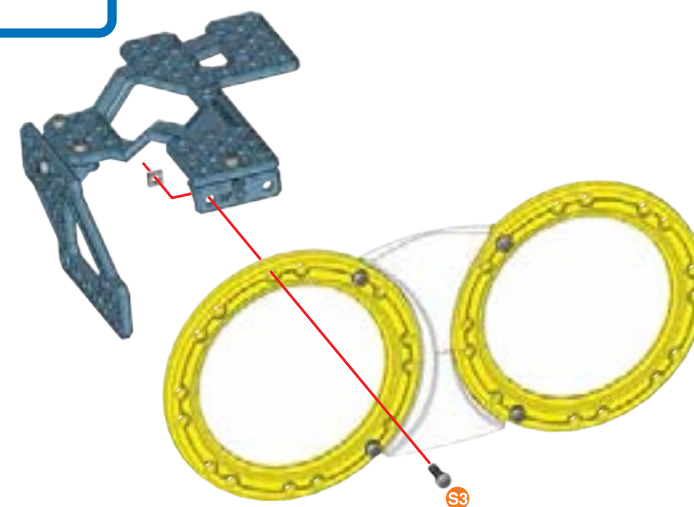
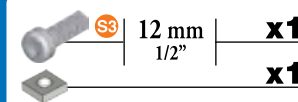
2



3

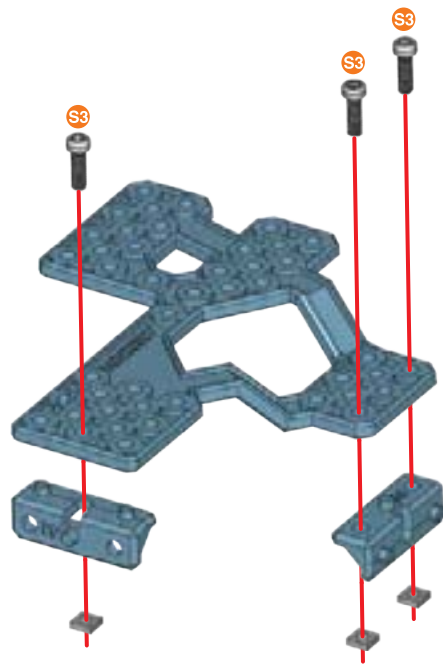
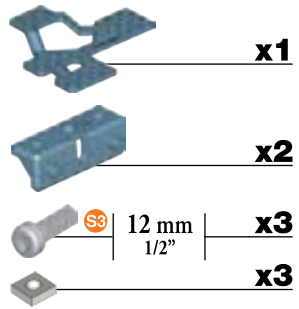


4

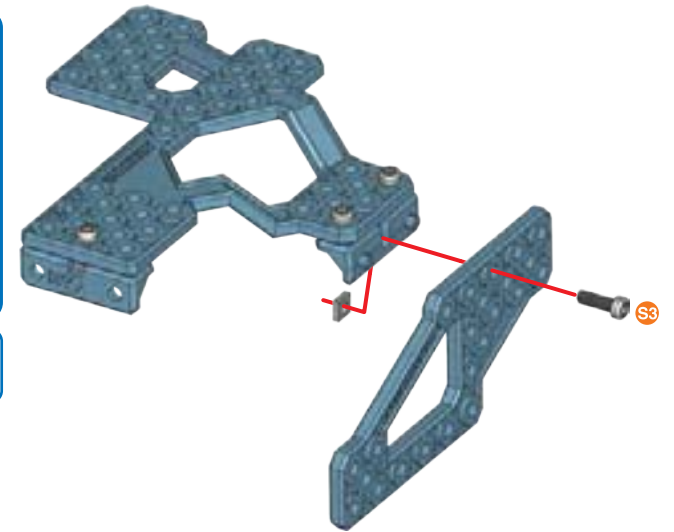
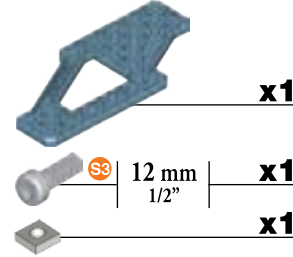




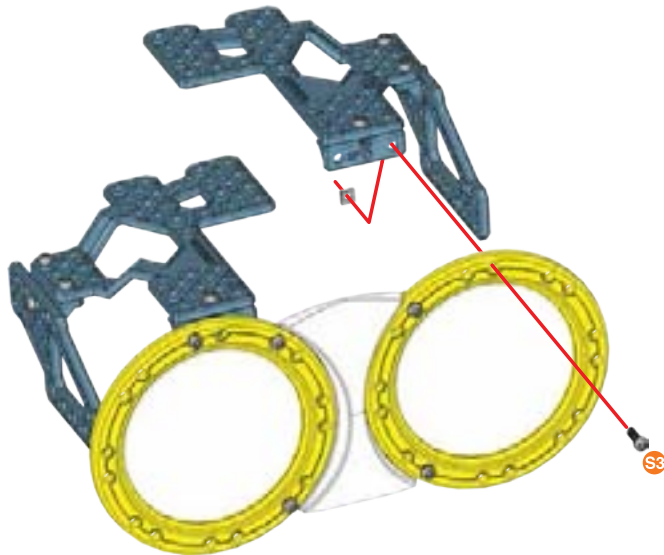
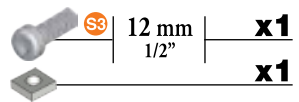
5



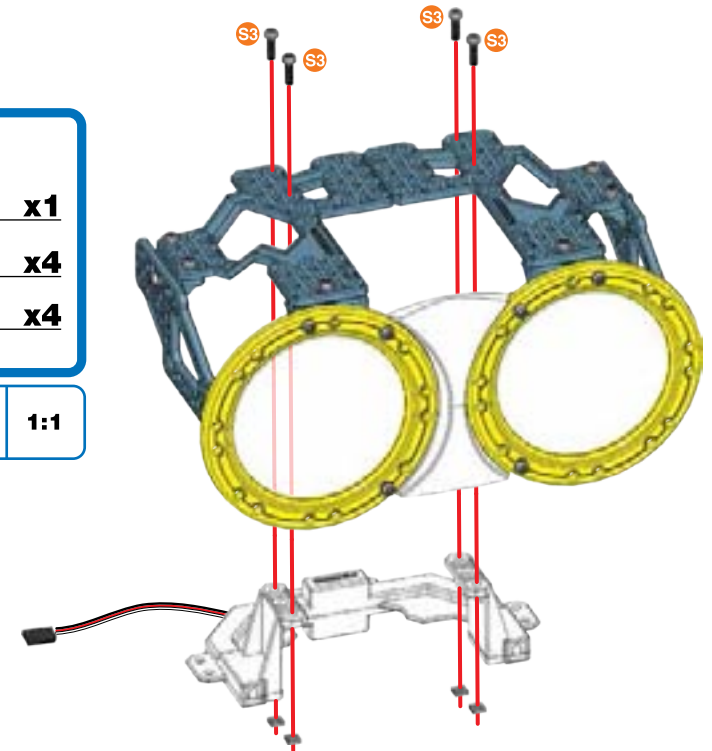
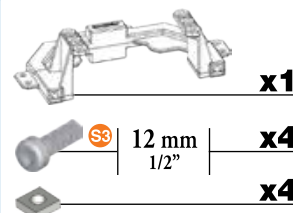
6





7



8



9

	S3	12 mm 1/2"	<b>x4</b>
			<b>x4</b>

	S3	<b>1:1</b>
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