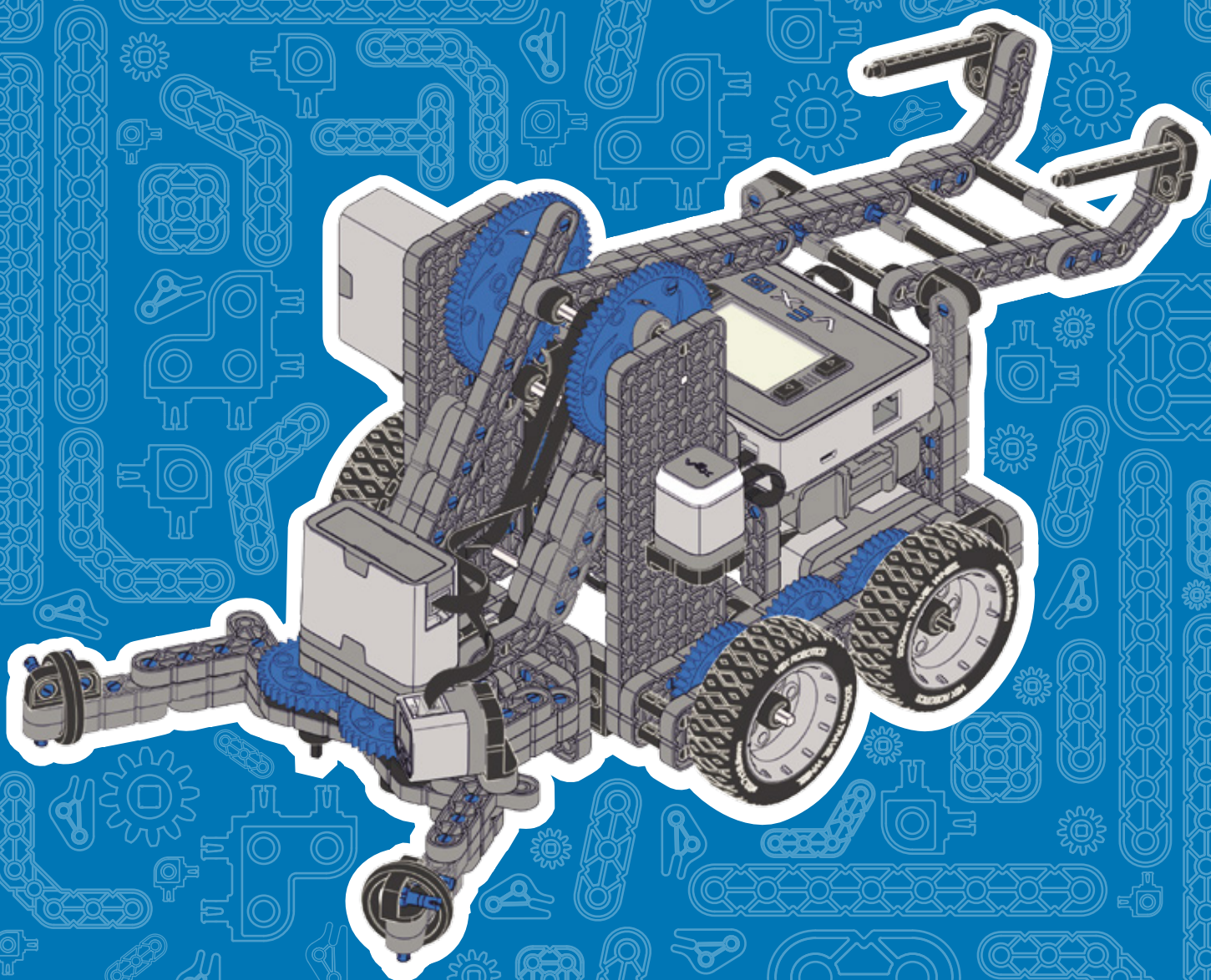
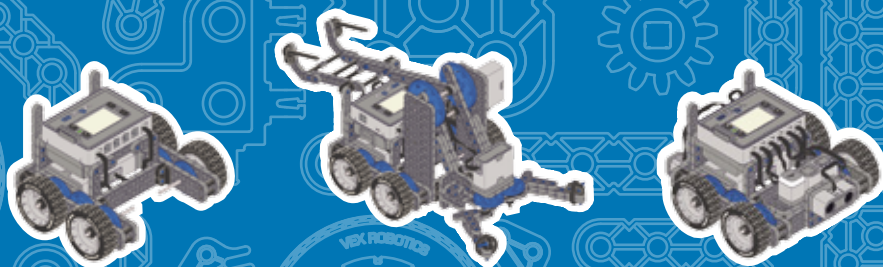


# VEX IQ

## Инструкция по сборке Clawbot IQ



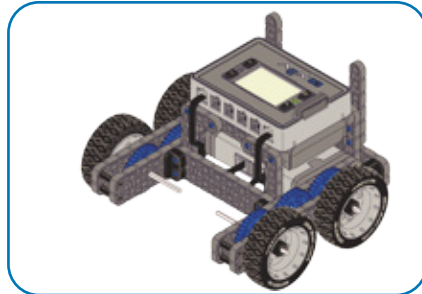
Включает руководство по сборке всех четырех моделей роботов.



# Оглавление

**Полезные советы** ..... 3

**1 Сборка базовой мобильной конструкции** ..... 4



**Пошаговая инструкция 1-19**

**2 Сборка Clawbot IQ** ..... 10



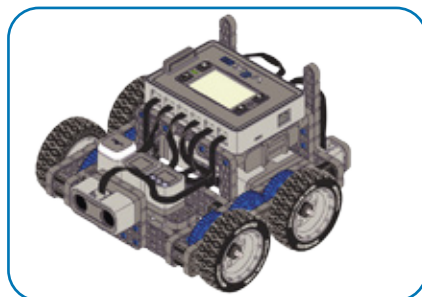
**Пошаговая инструкция 20-87**

**3 Clawbot IQ с сенсорами** ..... 28



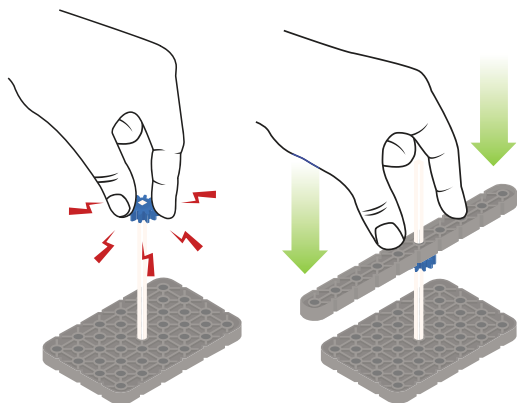
**Пошаговая инструкция 88-101**

**4 Автопилот** ..... 32

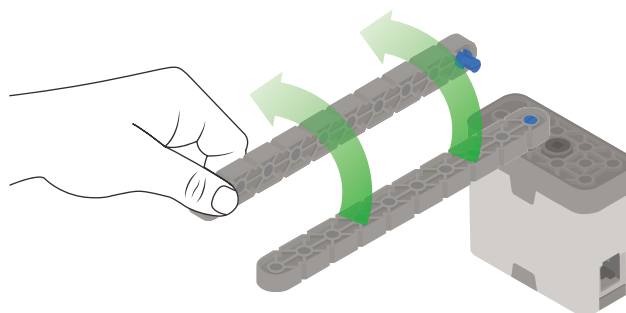


**Пошаговая инструкция 102-117**

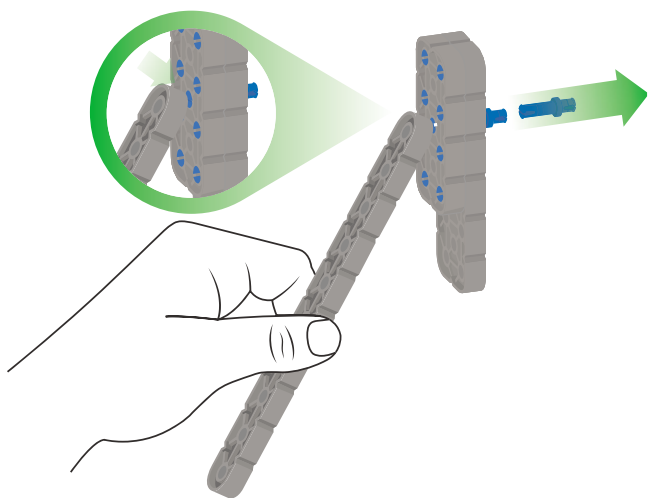
# Полезные советы



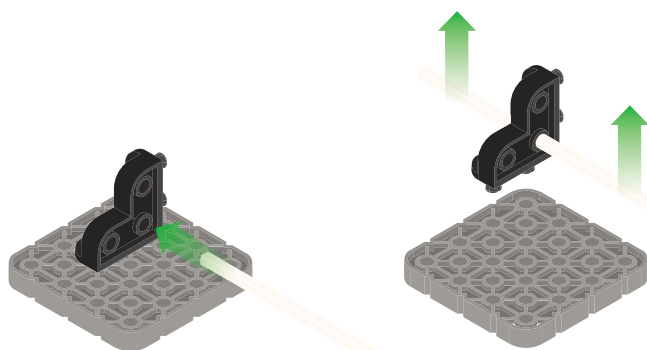
Используйте 1x планку при установке маленьких деталей VEX IQ на вал.



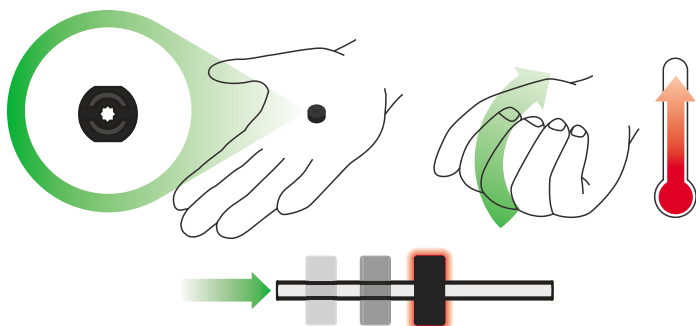
Соединительные штифты могут быть аккуратно сняты с моторов, сенсоров или микроконтроллера с помощью 1x планки. Установите планку на штифт и в процессе снятия – поверните ее.



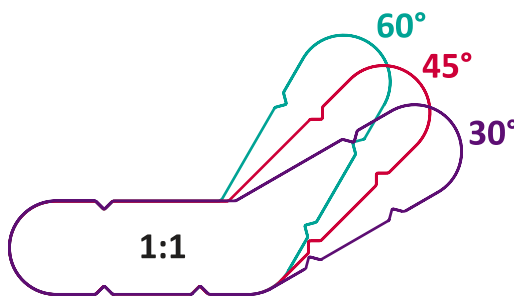
Для простого отсоединения соединительного штифта нажмите на его заднюю часть 1x планкой.



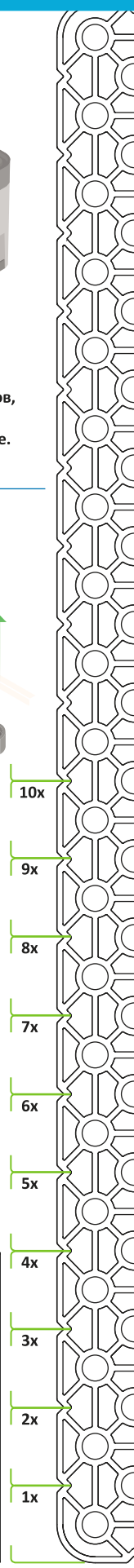
Для простого отсоединения угловых соединительных элементов поместите вал в одно из отверстий элемента и потяните.



Резиновые кольца для вала становятся более мягкими и гибкими (для более простой установки на вал) если их нагреть, подержав в руке 15-30 секунд.



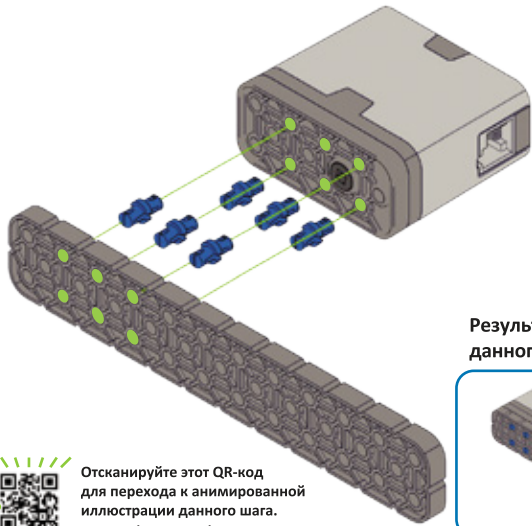
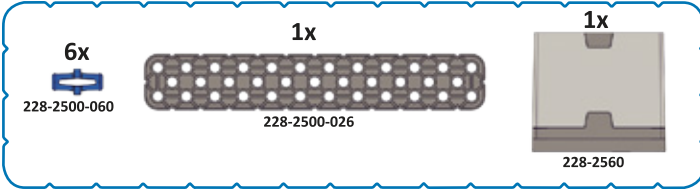
Удобнее всего узнавать угол угловых планок – сравнивать их с планками, угол наклона которых уже известен. Чтобы узнать длину вала – приложите его к планке VEX IQ и посчитайте деления.



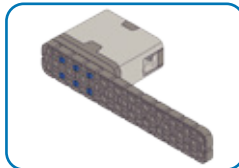
# 1. Сборка базовой мобильной конструкции

1

Используемые детали

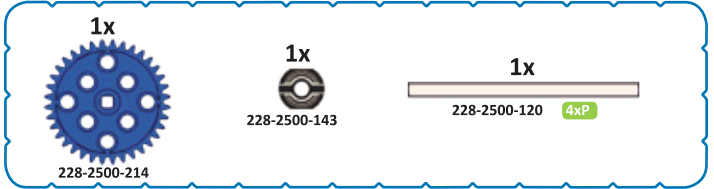


Результат выполнения данного шага

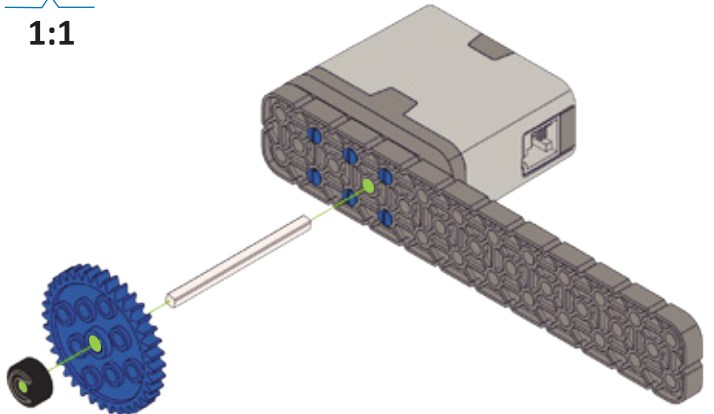


Отсканируйте этот QR-код для перехода к анимированной иллюстрации данного шага.  
[vexiq.com/clawbotiq/1](http://vexiq.com/clawbotiq/1)

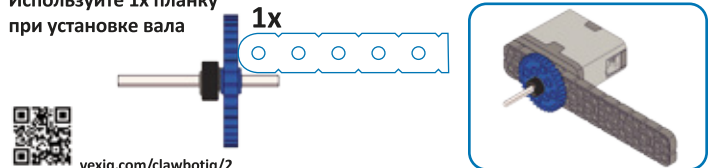
2



1:1

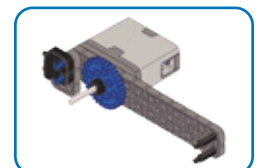
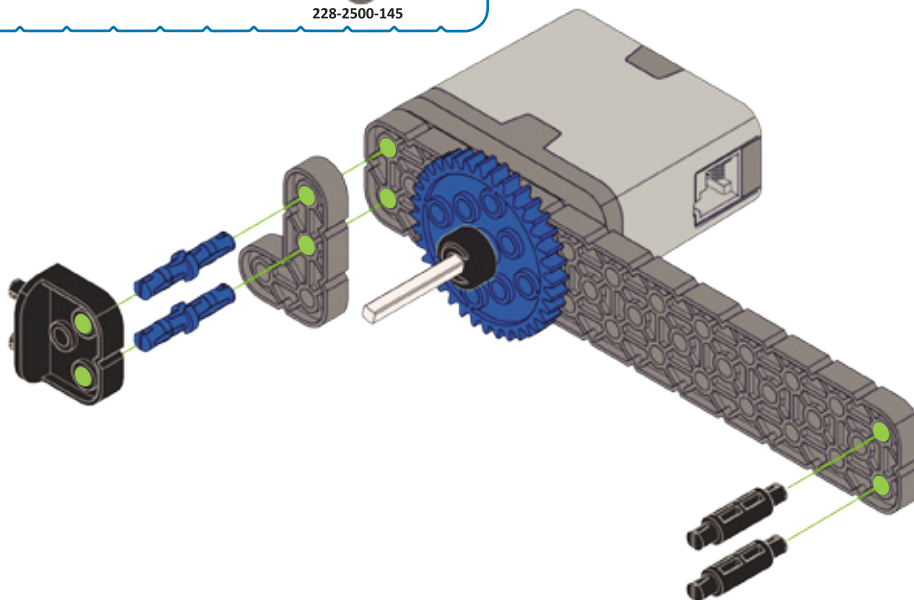
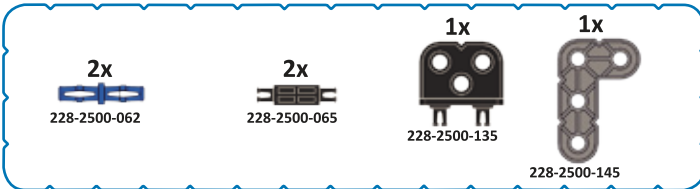


Используйте 1x планку при установке вала




[vexiq.com/clawbotiq/2](http://vexiq.com/clawbotiq/2)


3





[vexiq.com/clawbotiq/3](http://vexiq.com/clawbotiq/3)

4

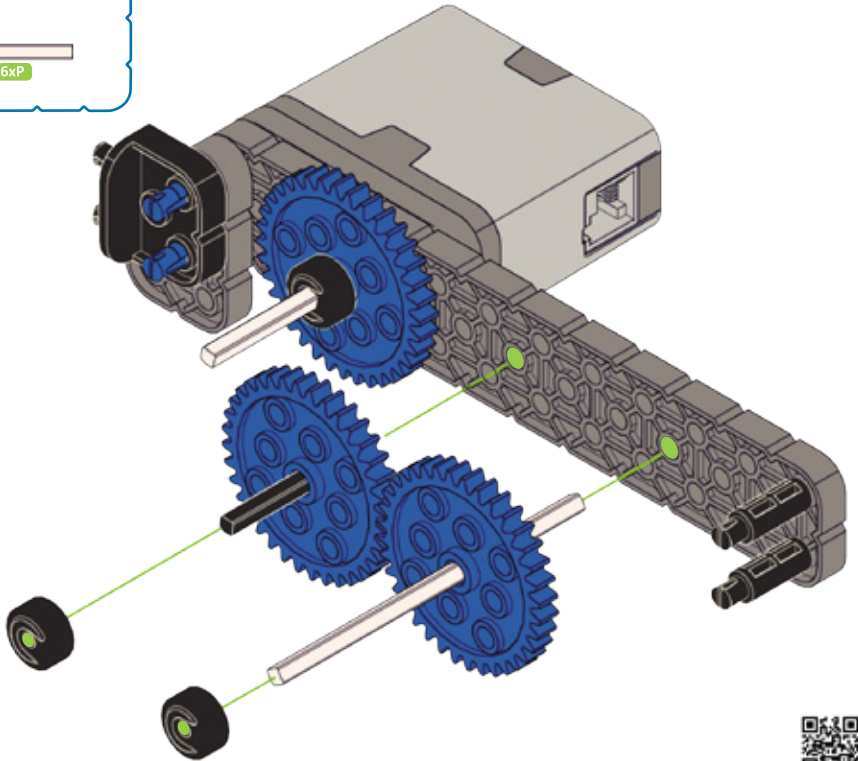
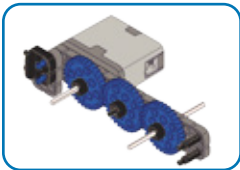
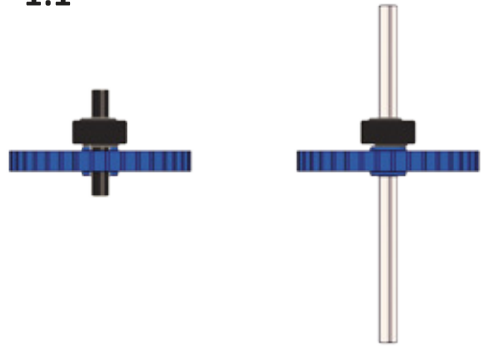
2x  228-2500-214

2x  228-2500-143

1x  228-2500-074 2xP

1x  228-2500-122 6xP

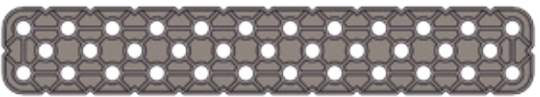
1:1

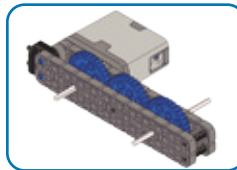
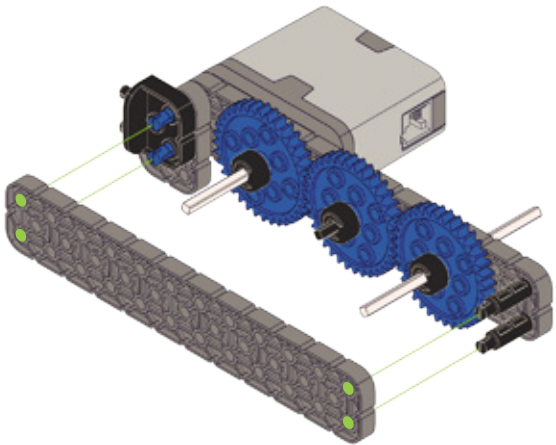


vexiq.com/clawbotiq/4



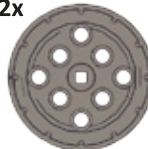
5


1x  228-2500-026




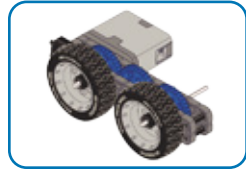
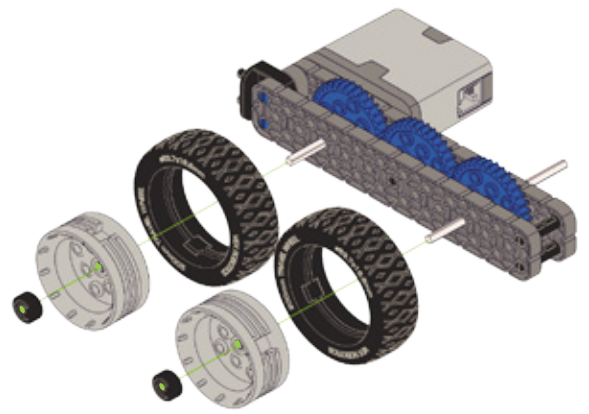
 vexiq.com/clawbotiq/5

6

2x  228-2500-208

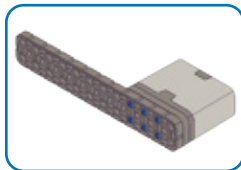
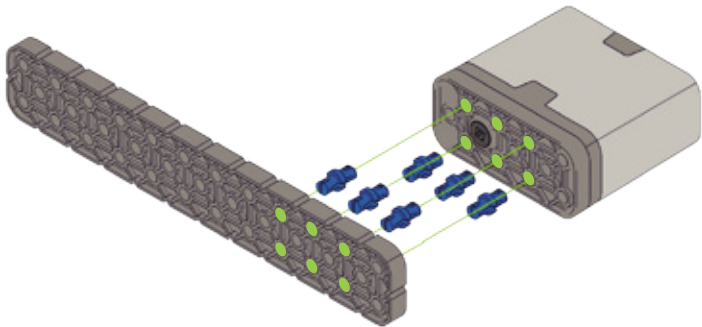
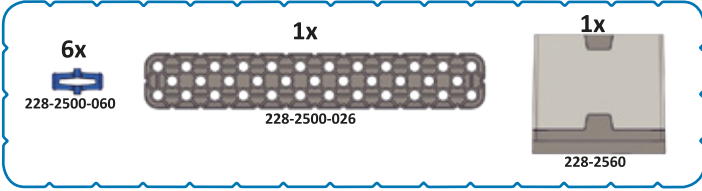
2x  228-2500-143

2x  228-2500-209



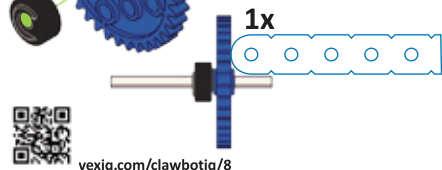
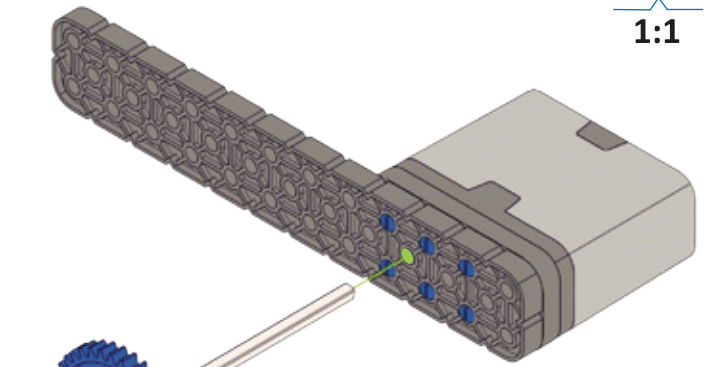
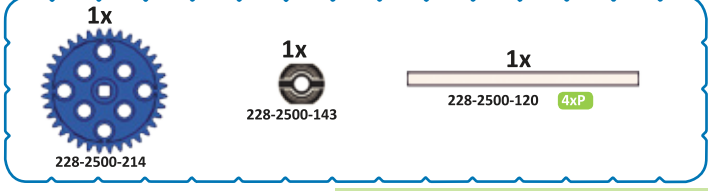
 vexiq.com/clawbotiq/6

7



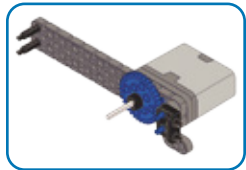
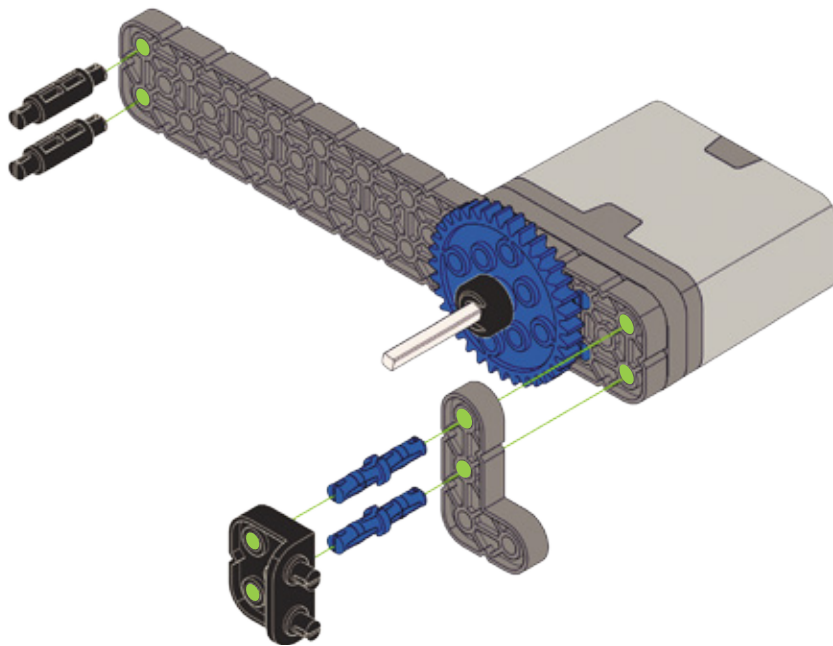
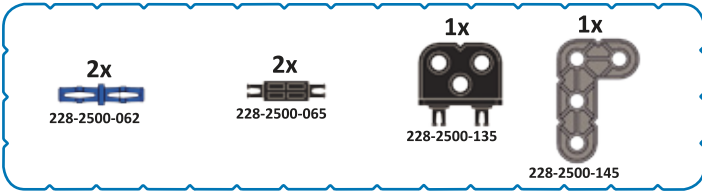
vexiq.com/clawbotiq/7

8



vexiq.com/clawbotiq/8

9



vexiq.com/clawbotiq/9

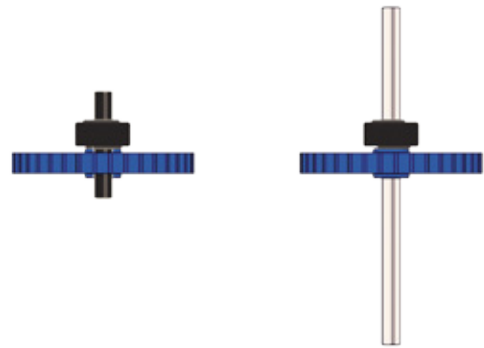
10

2x 228-2500-214

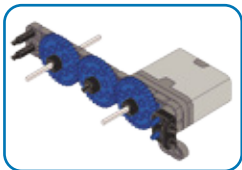
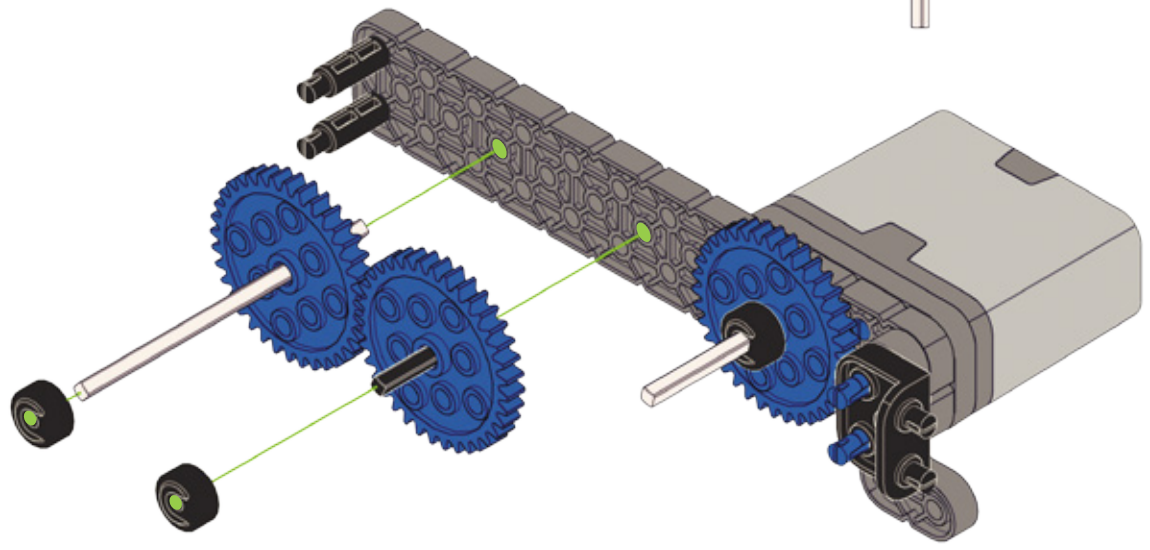
2x 228-2500-143

1x 228-2500-074 2xP

1x 228-2500-122 6xP



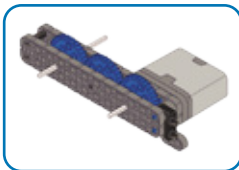
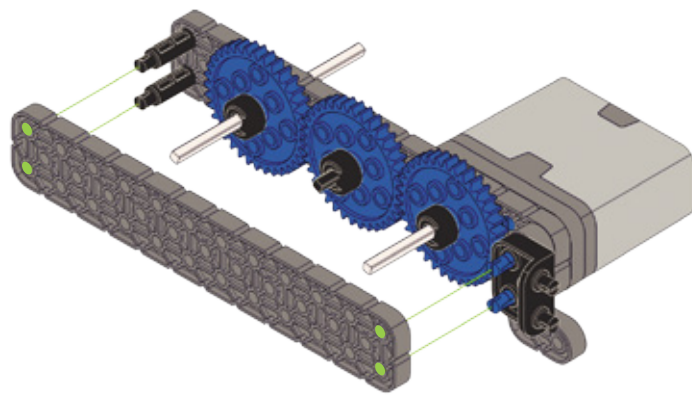
1:1



vexiq.com/clawbotiq/10

11

1x 228-2500-026



vexiq.com/clawbotiq/11

12

2x 228-2500-208

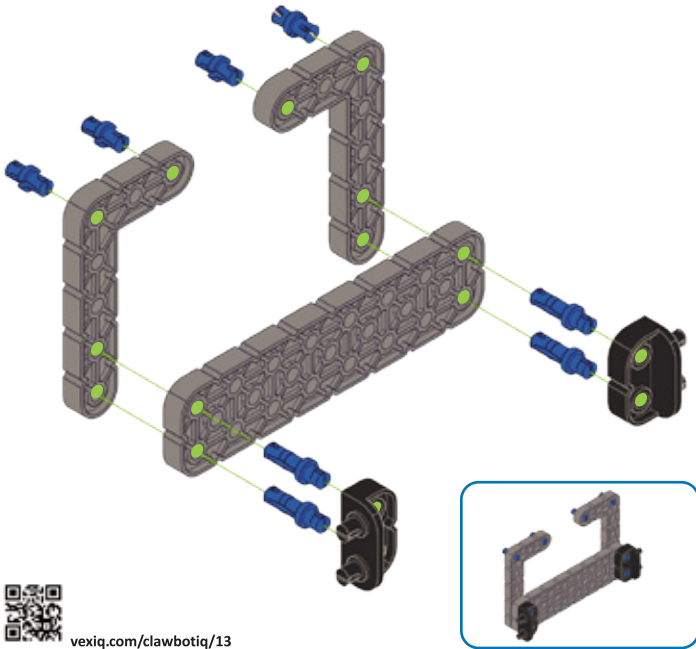
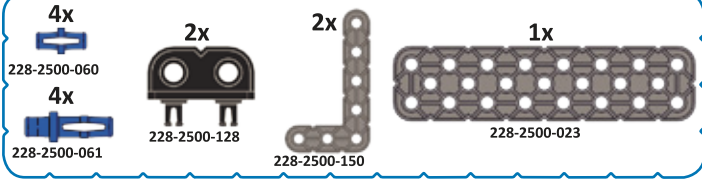
2x 228-250-143

2x 228-2500-209

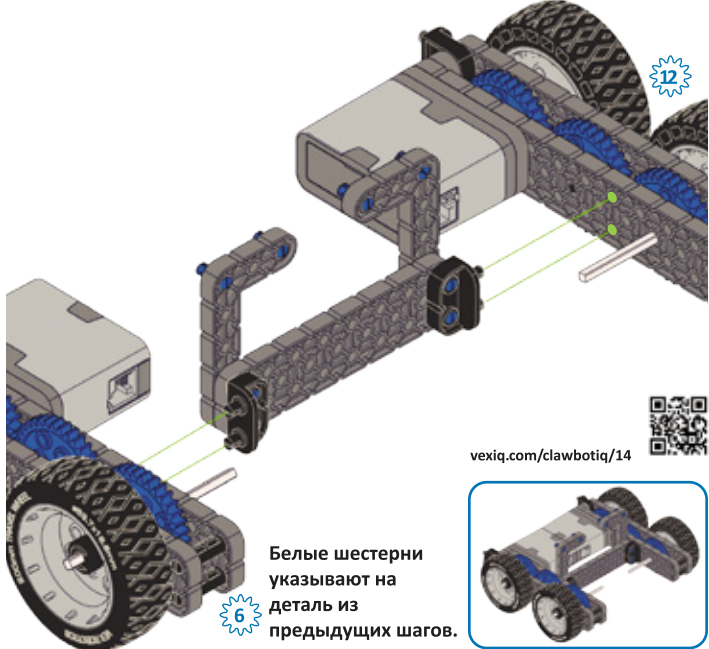
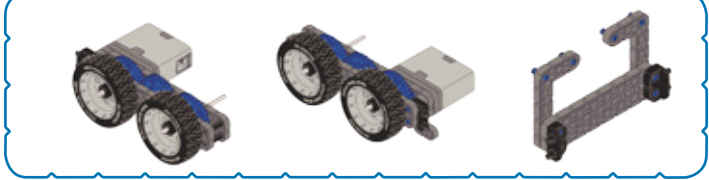


vexiq.com/clawbotiq/12

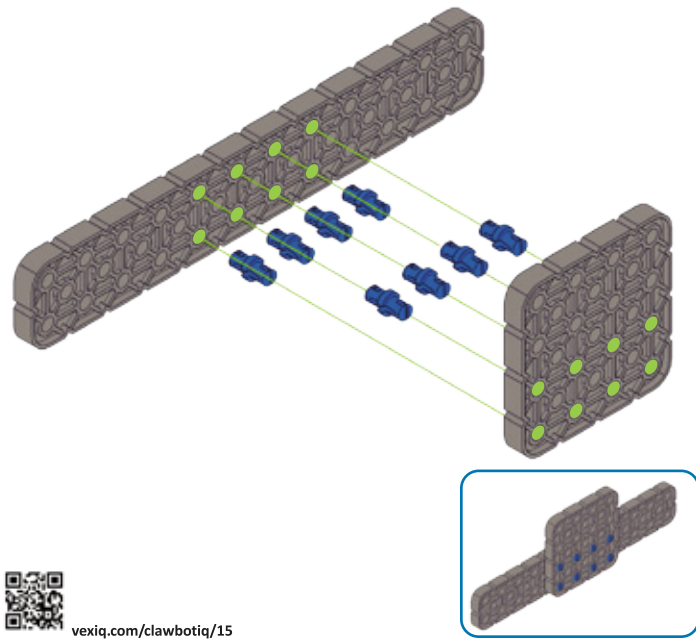
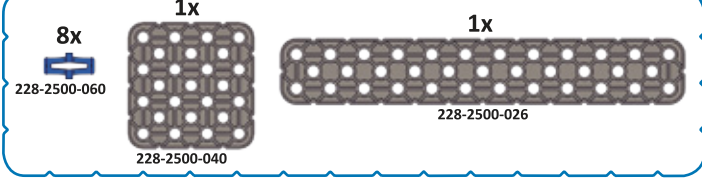
13



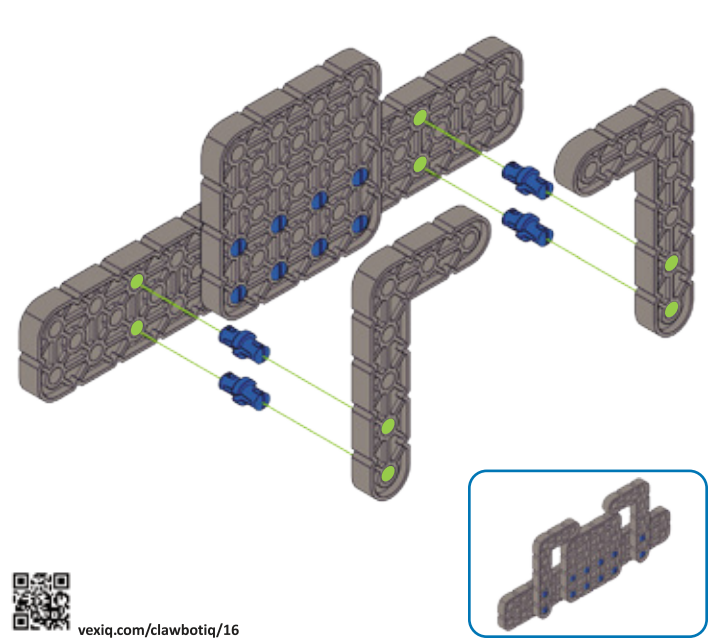
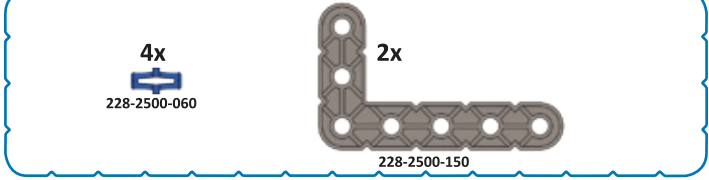
14



15



16

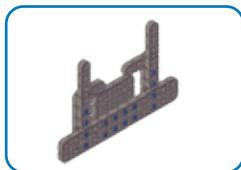
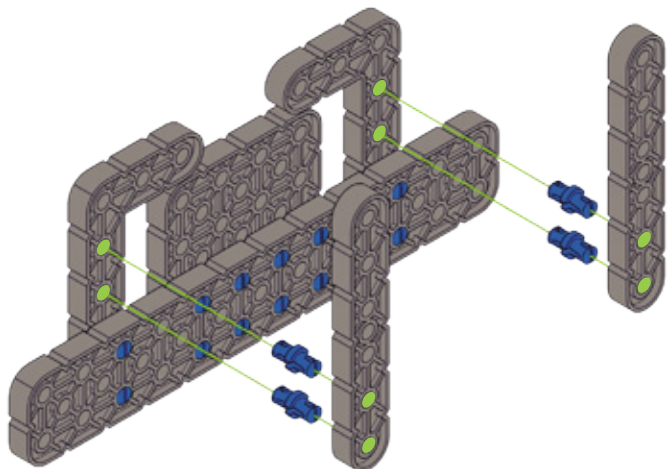




17

4x  
228-2500-060

2x  
228-2500-005



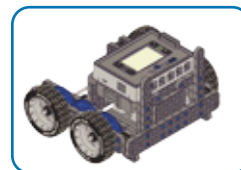
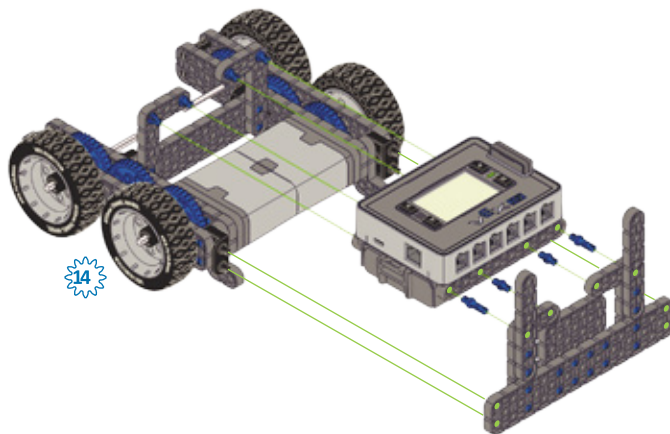
vexiq.com/clawbotiq/17

18

2x  
228-2500-060

2x  
228-2500-061

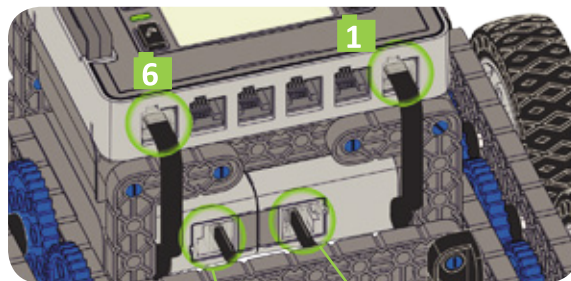
1x  
228-2540



vexiq.com/clawbotiq/18

19

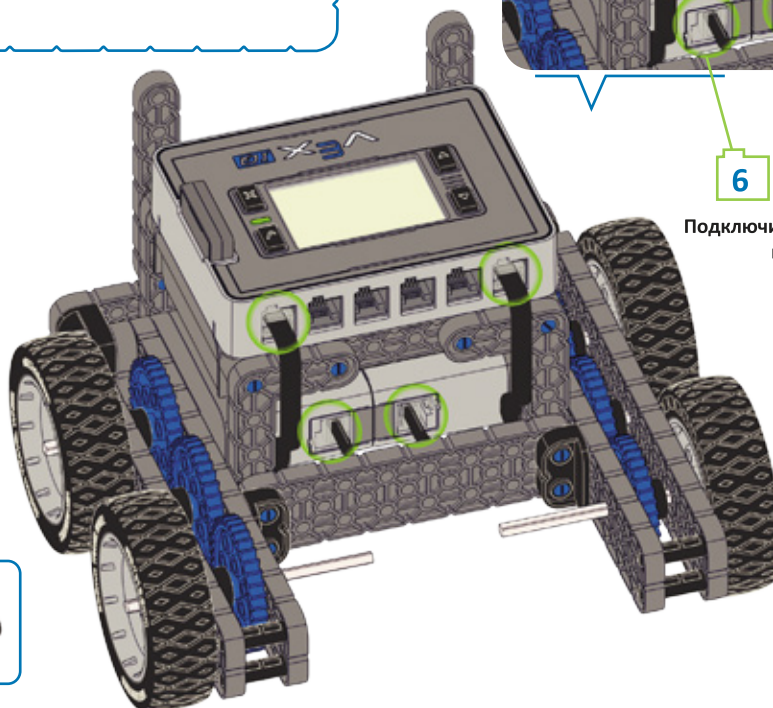
2x  
228-2780-001 200mm



6

1

Подключите устройства к выделенным портам контроллера



vexiq.com/clawbotiq/19



20

102



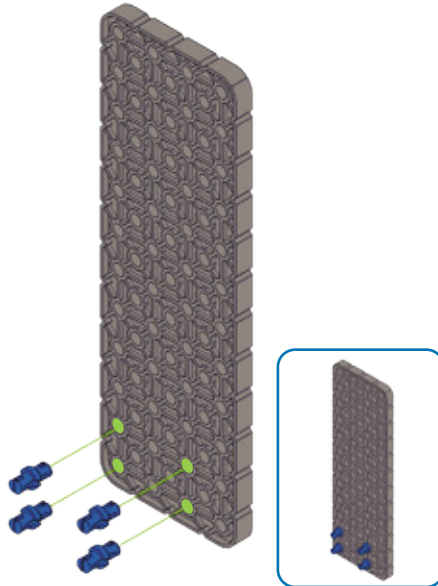
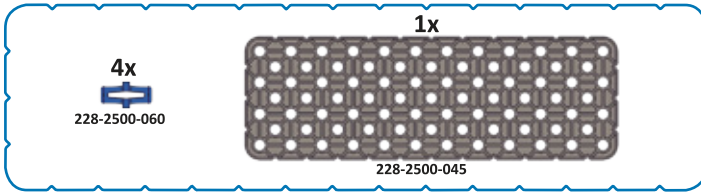
Clawbot IQ



Робот для автопилота

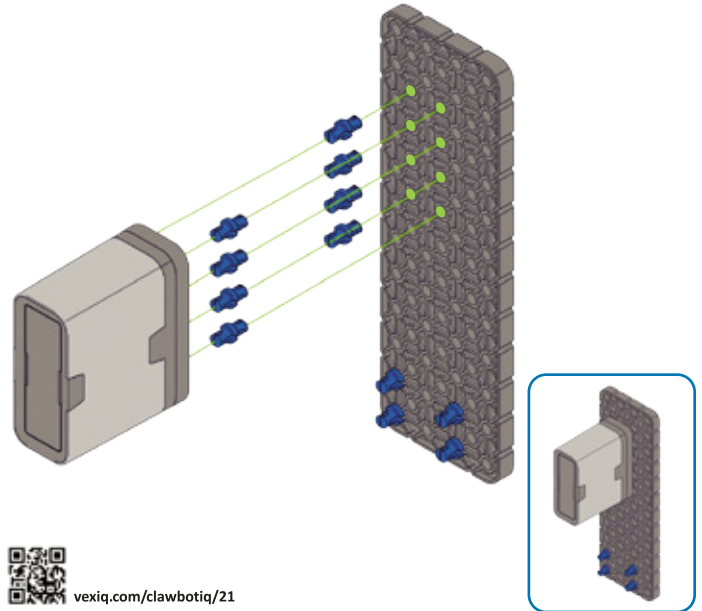
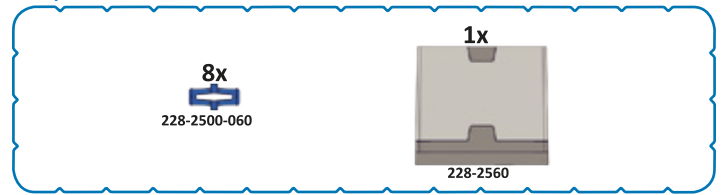
## 2. Сборка Clawbot IQ

20



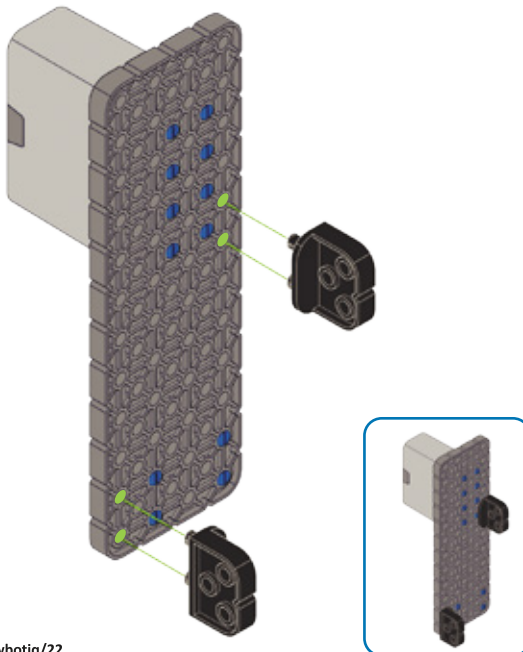
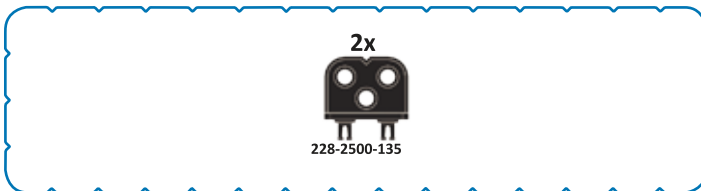
[vexiq.com/clawbotiq/20](http://vexiq.com/clawbotiq/20)

21



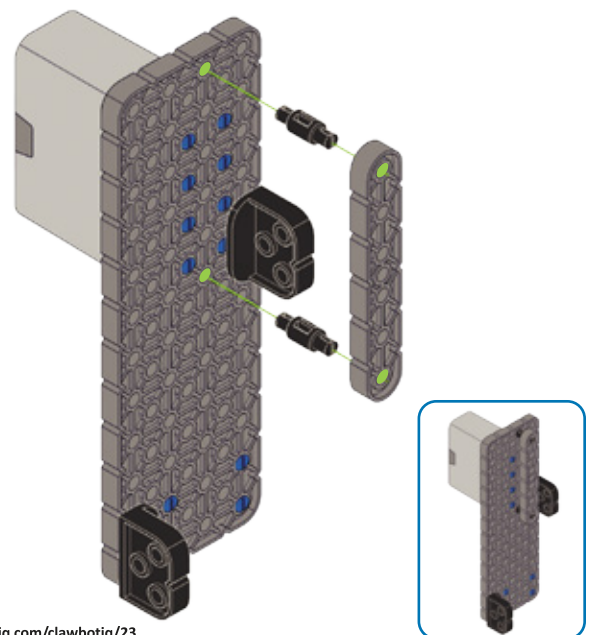
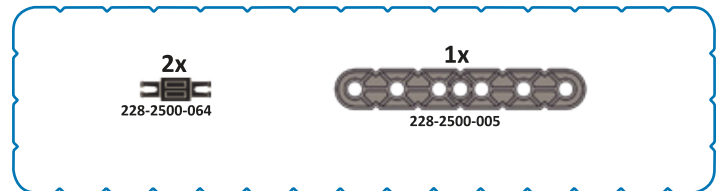
[vexiq.com/clawbotiq/21](http://vexiq.com/clawbotiq/21)

22



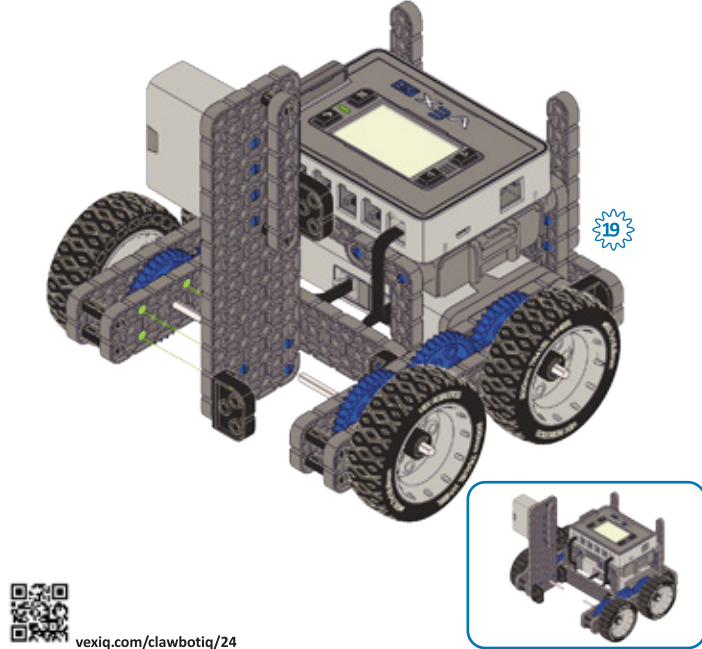
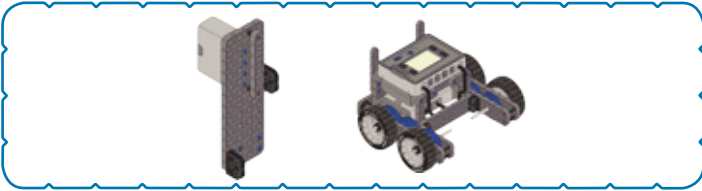
[vexiq.com/clawbotiq/22](http://vexiq.com/clawbotiq/22)

23



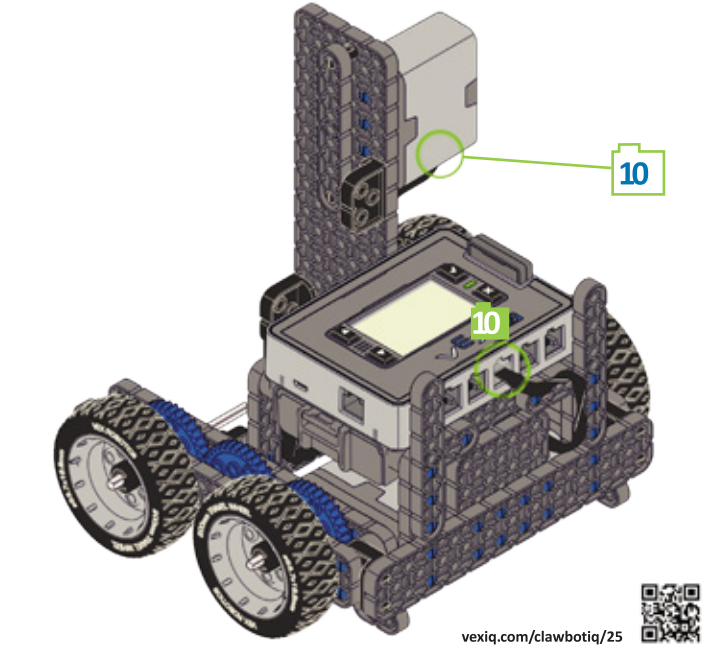
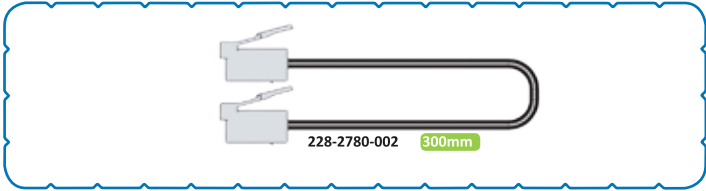
[vexiq.com/clawbotiq/23](http://vexiq.com/clawbotiq/23)

24



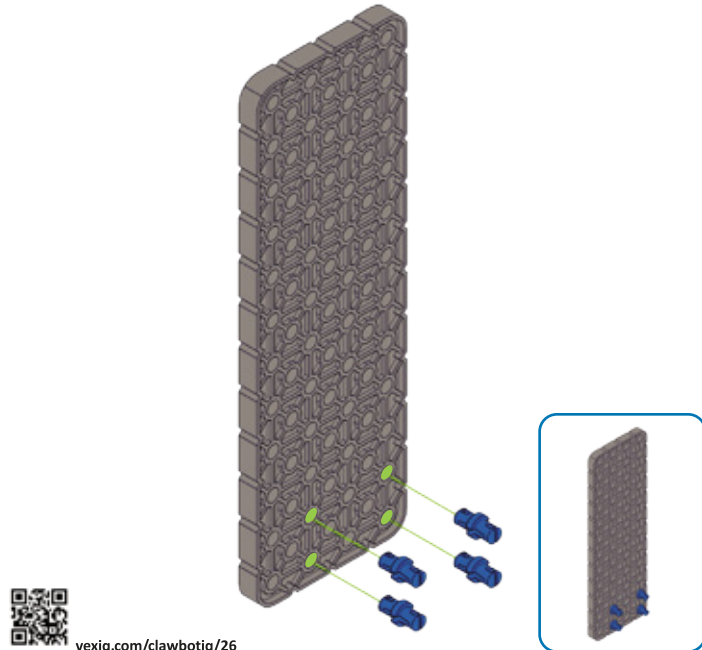
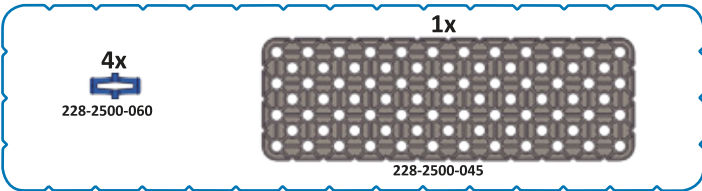
vexiq.com/clawbotiq/24

25



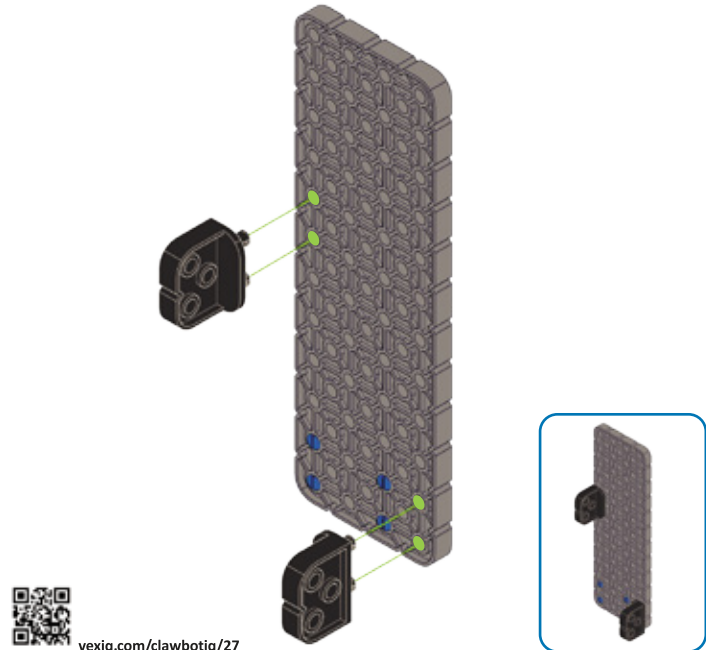
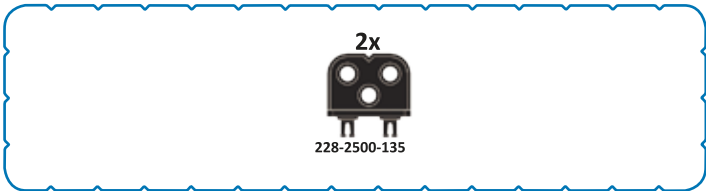
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26



vexiq.com/clawbotiq/26

27

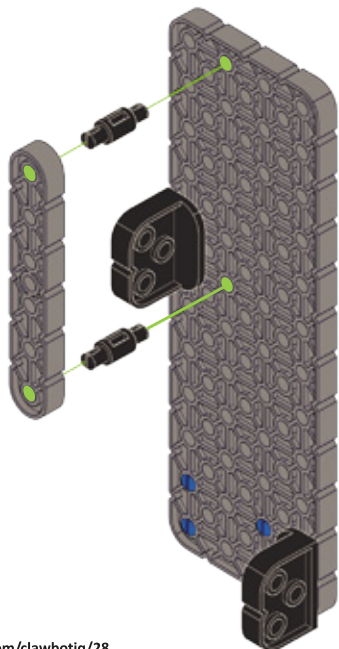


vexiq.com/clawbotiq/27

28

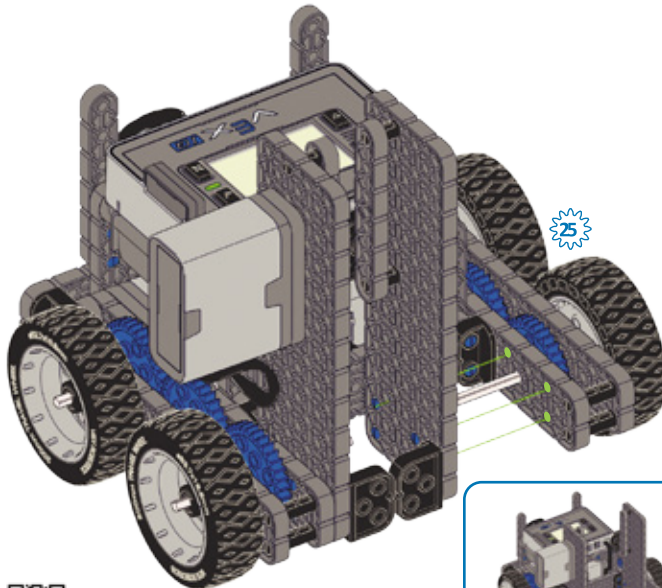
2x  
228-2500-064

1x  
228-2500-005



vexiq.com/clawbotiq/28

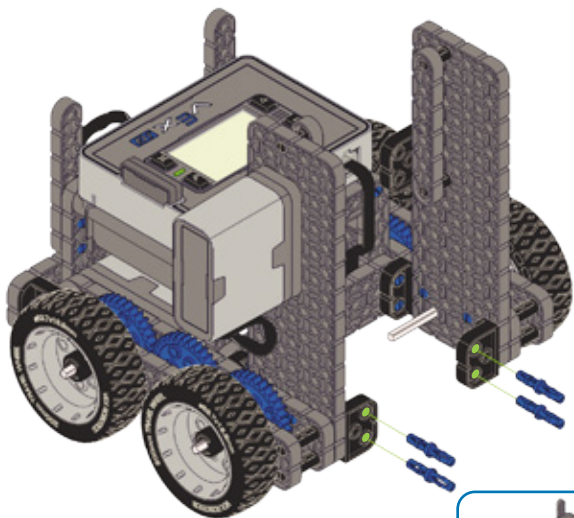
29



vexiq.com/clawbotiq/29

30

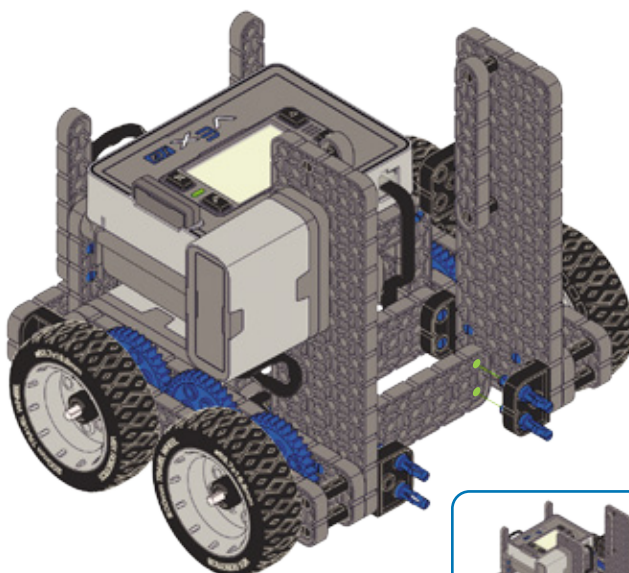
4x  
228-2500-062



vexiq.com/clawbotiq/30

31

1x  
228-2500-021

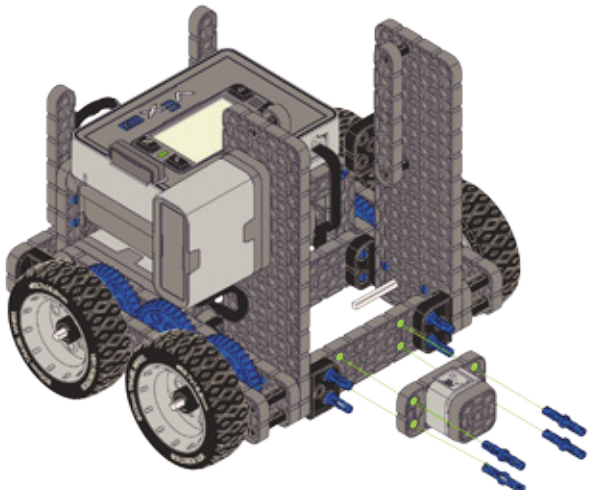


vexiq.com/clawbotiq/31

32

4x  
228-2500-062

1x  
228-2677

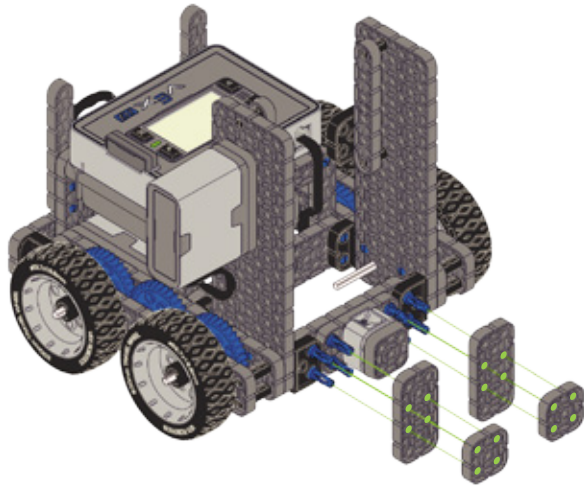


vexiq.com/clawbotiq/32

33

2x  
228-2500-017

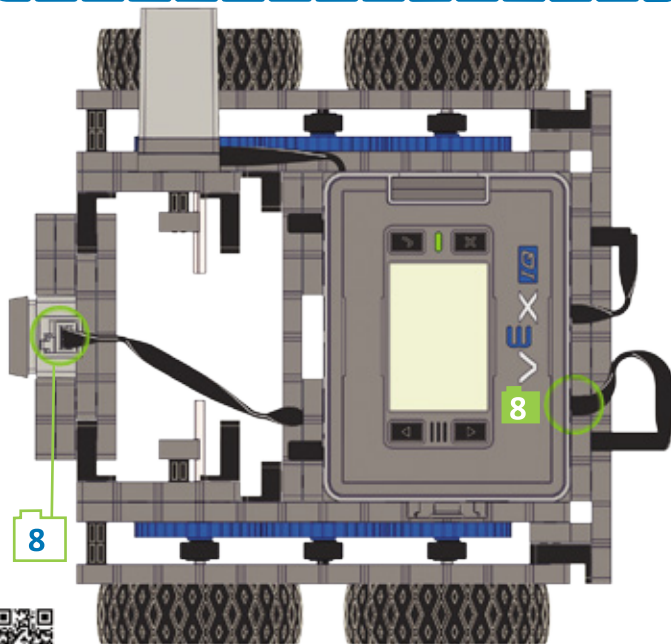
2x  
228-2500-019



vexiq.com/clawbotiq/33

34

228-2780-002 300mm



8

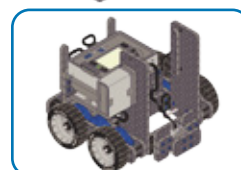
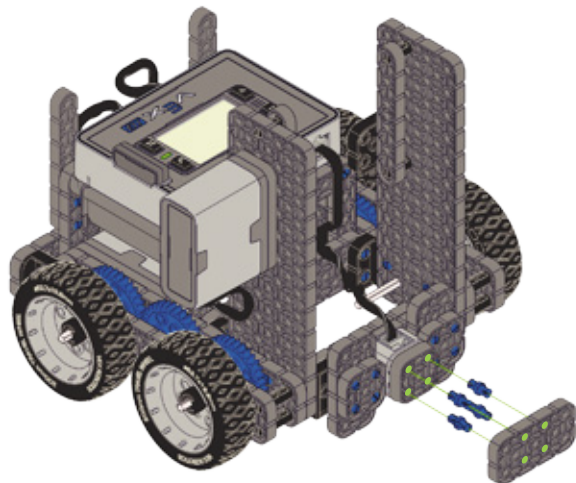


vexiq.com/clawbotiq/34

35

4x  
228-2500-060

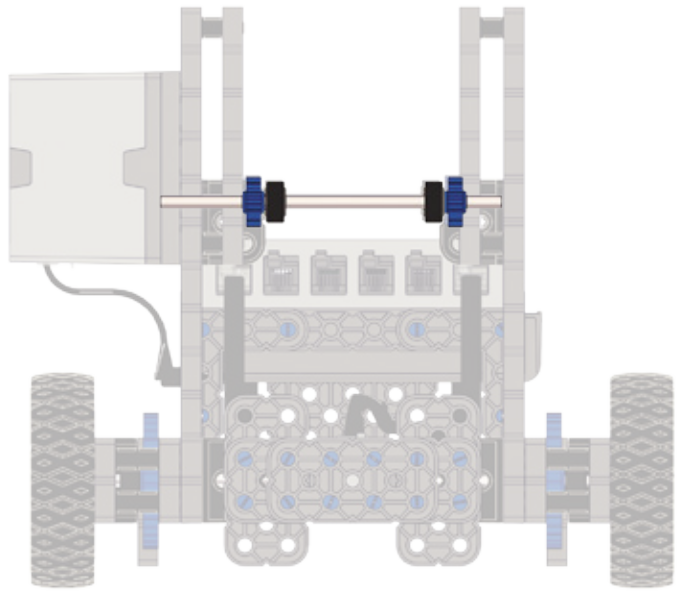
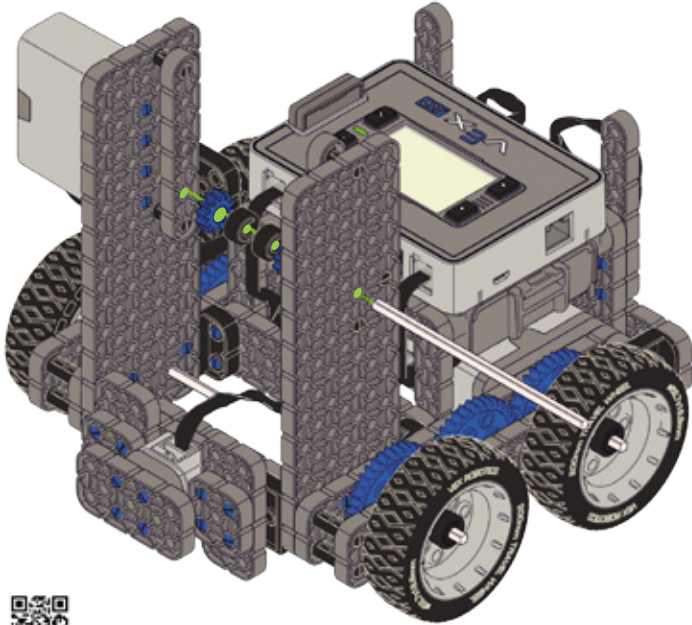
1x  
228-2500-019



vexiq.com/clawbotiq/35

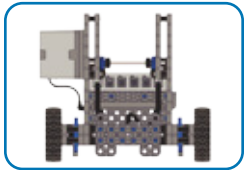
36

2x 228-250-143      2x 228-2500-213      1x 228-2500-124 8xP



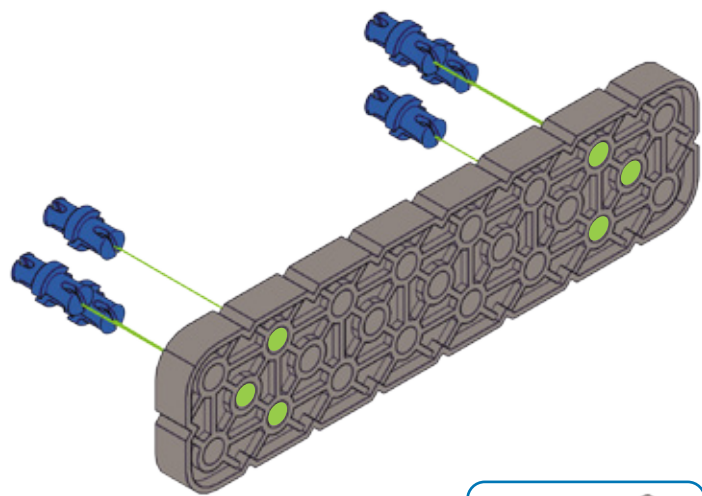
vexiq.com/clawbotiq/36

1:1

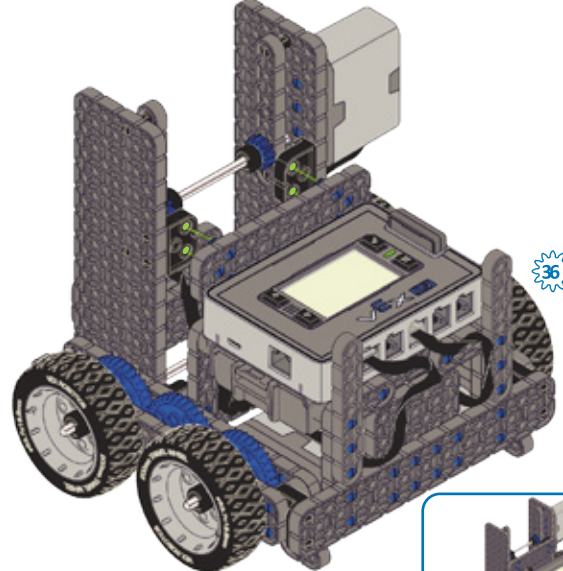


37

6x 228-2500-060      1x 228-2500-023



38



vexiq.com/clawbotiq/37



vexiq.com/clawbotiq/38

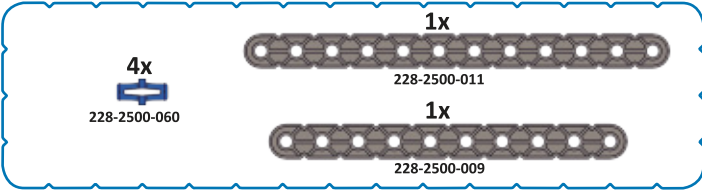
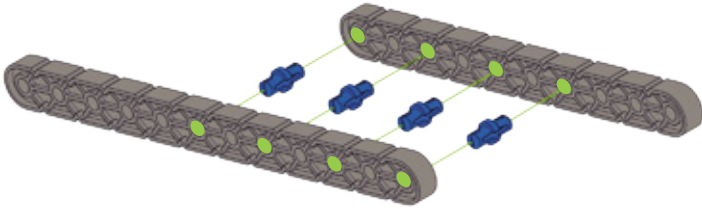


39

4x  
228-2500-060

1x  
228-2500-011

1x  
228-2500-009

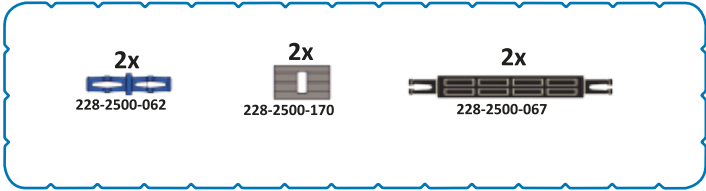
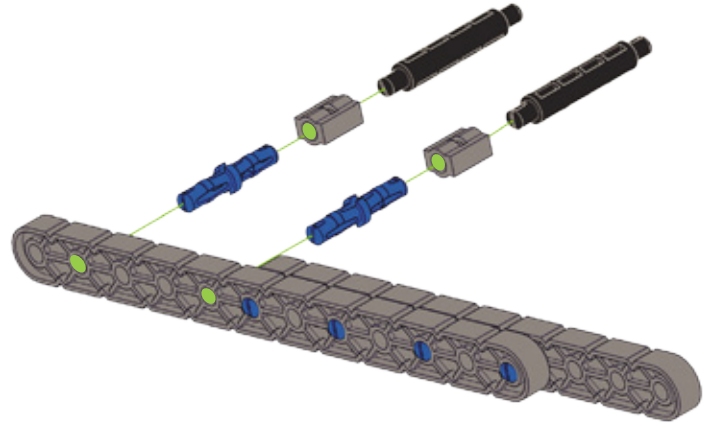
vexiq.com/clawbotiq/39

40

2x  
228-2500-062

2x  
228-2500-170

2x  
228-2500-067

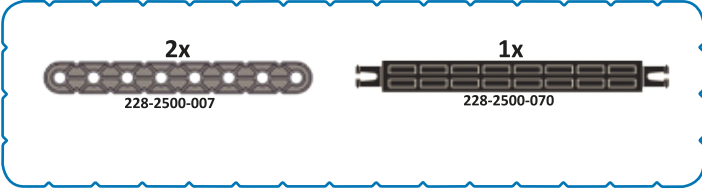
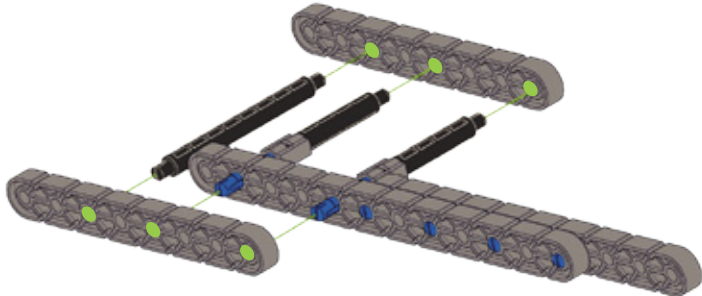



vexiq.com/clawbotiq/40

41

2x  
228-2500-007

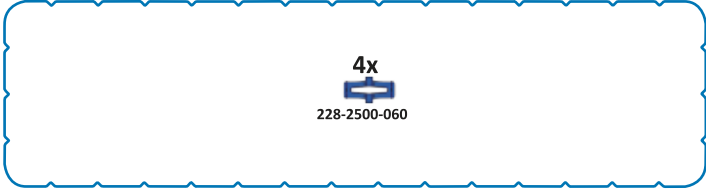
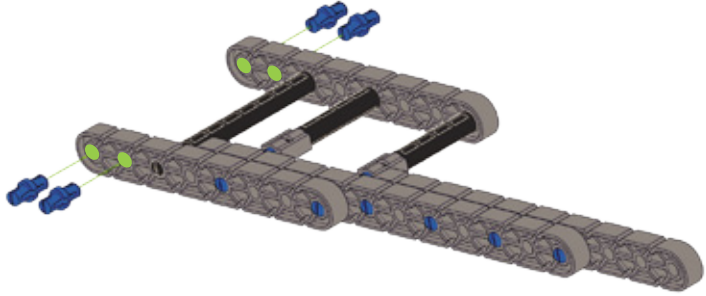
1x  
228-2500-070

vexiq.com/clawbotiq/41

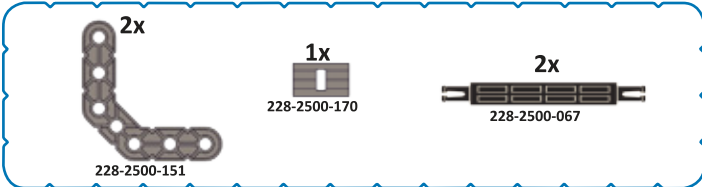
42

4x  
228-2500-060

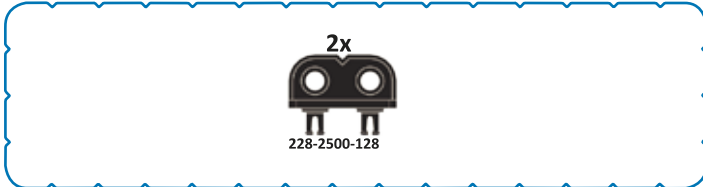
vexiq.com/clawbotiq/42

43



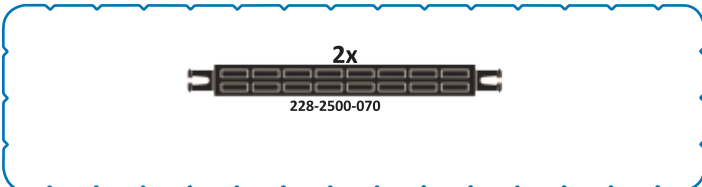
vexiq.com/clawbotiq/43

44



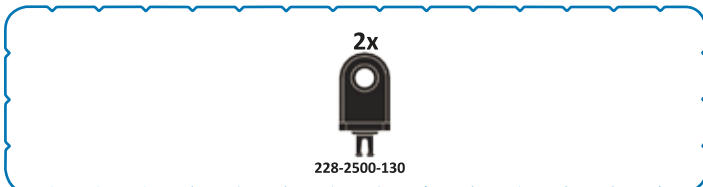
vexiq.com/clawbotiq/44

45



vexiq.com/clawbotiq/45

46



vexiq.com/clawbotiq/46



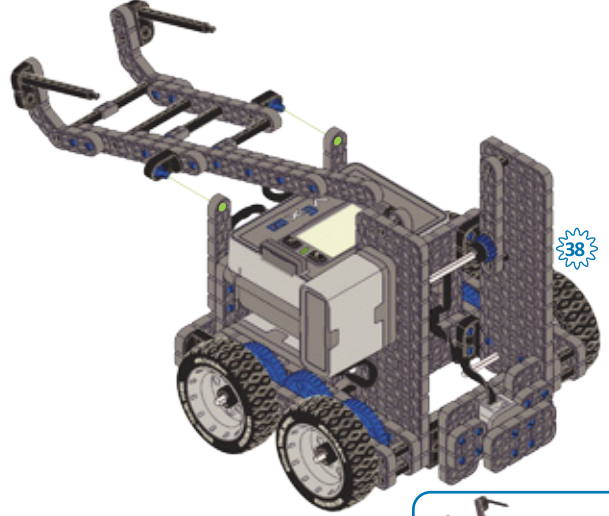
47

2x  
228-2500-060



vexiq.com/clawbotiq/47

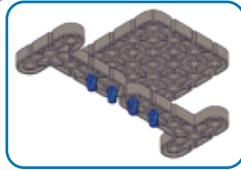
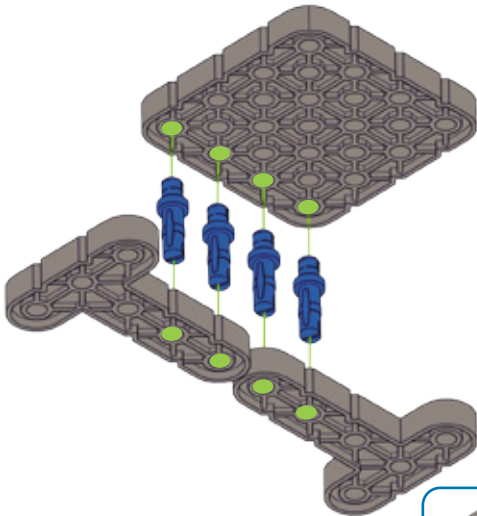
48



vexiq.com/clawbotiq/48

49

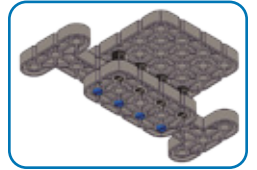
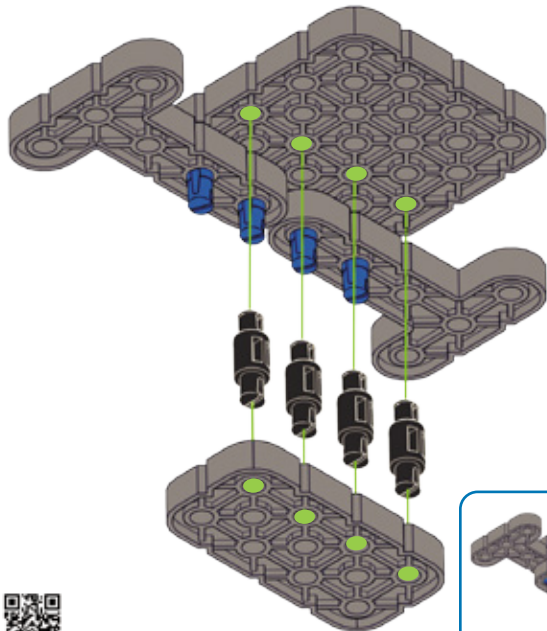
4x 228-2500-061  
1x 228-2500-040  
2x 228-2500-144



vexiq.com/clawbotiq/49

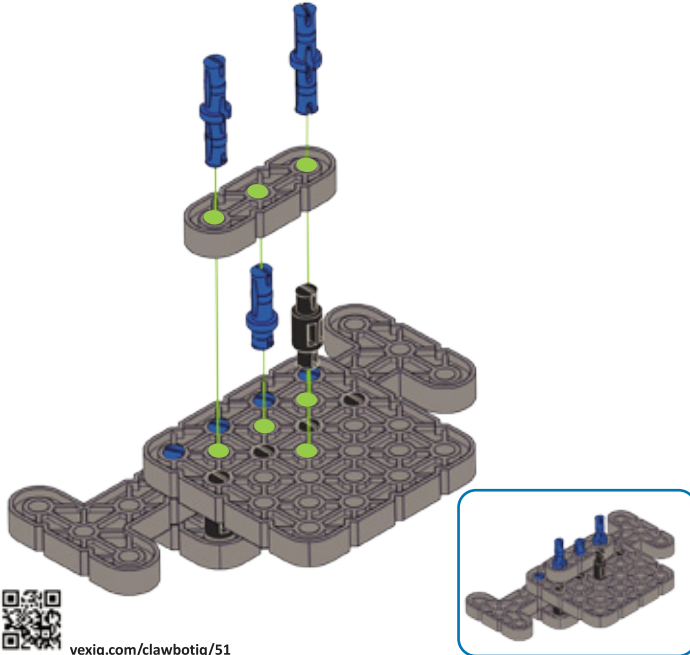
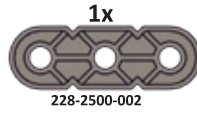
50

4x 228-2500-064  
1x 228-2500-019

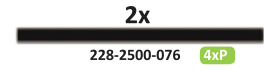
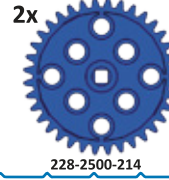


vexiq.com/clawbotiq/50

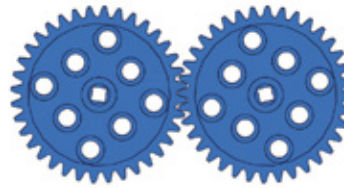
51



52



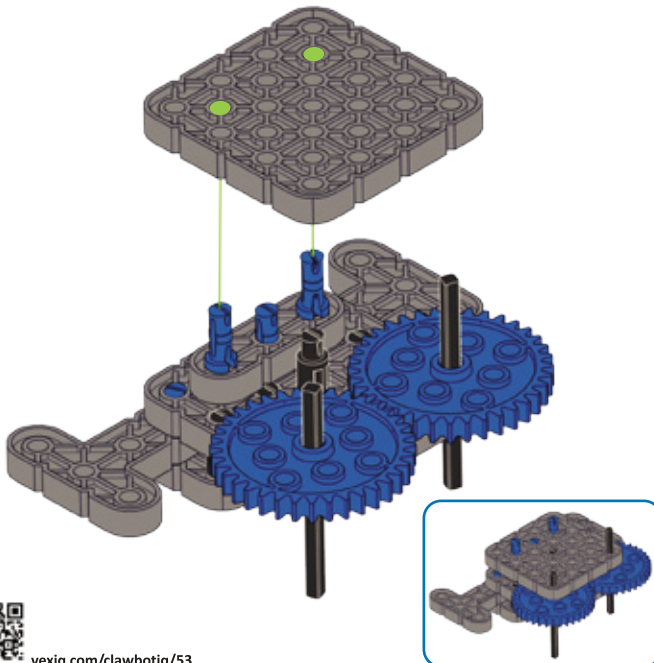
1:1



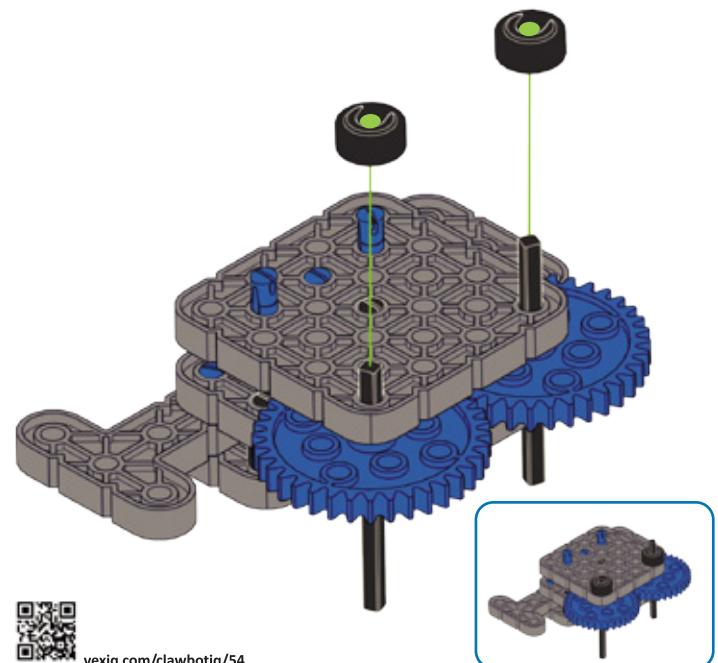
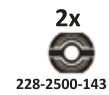
Убедитесь, что установили шестерни как показано на рисунке.



53

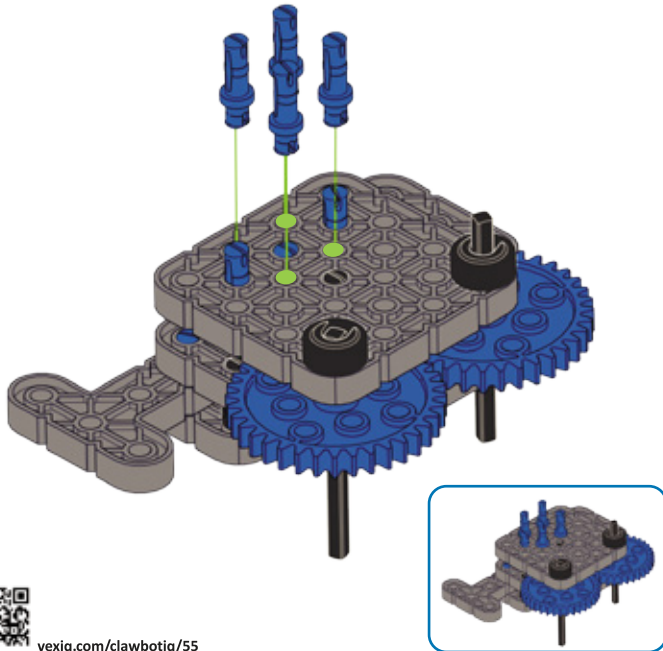


54



55

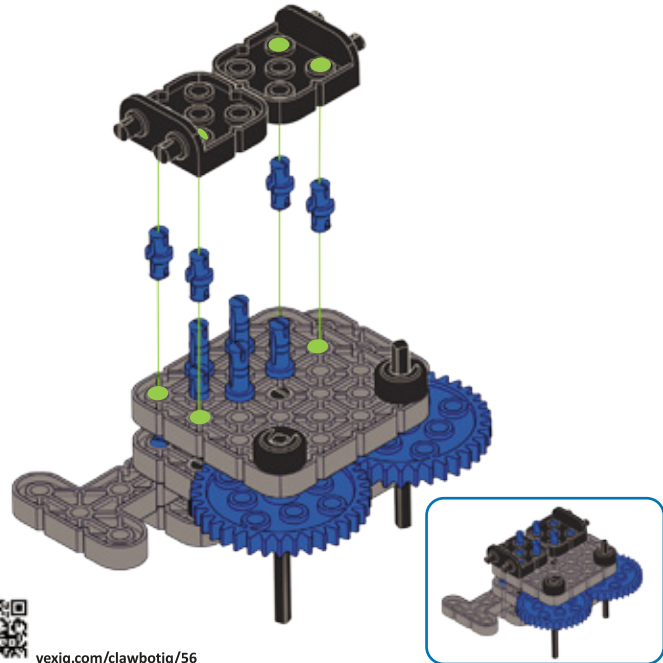
4x  
228-2500-061



vexiq.com/clawbotiq/55

56

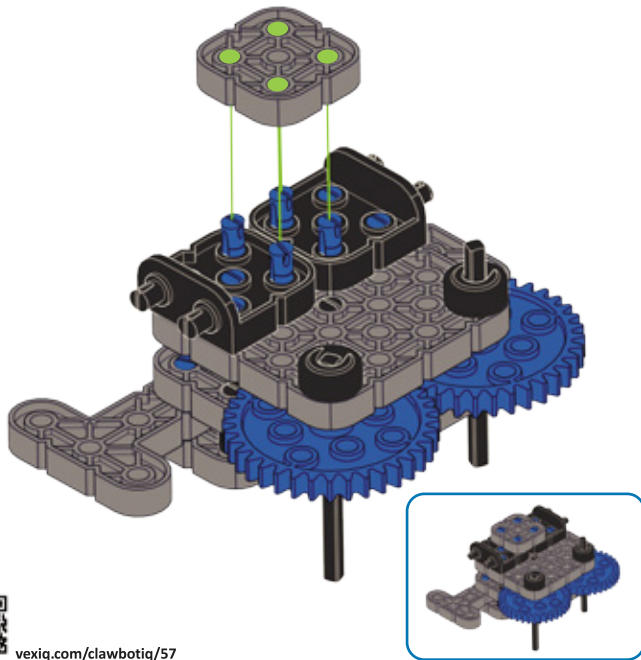
4x 228-2500-060  
2x 228-2500-134



vexiq.com/clawbotiq/56

57

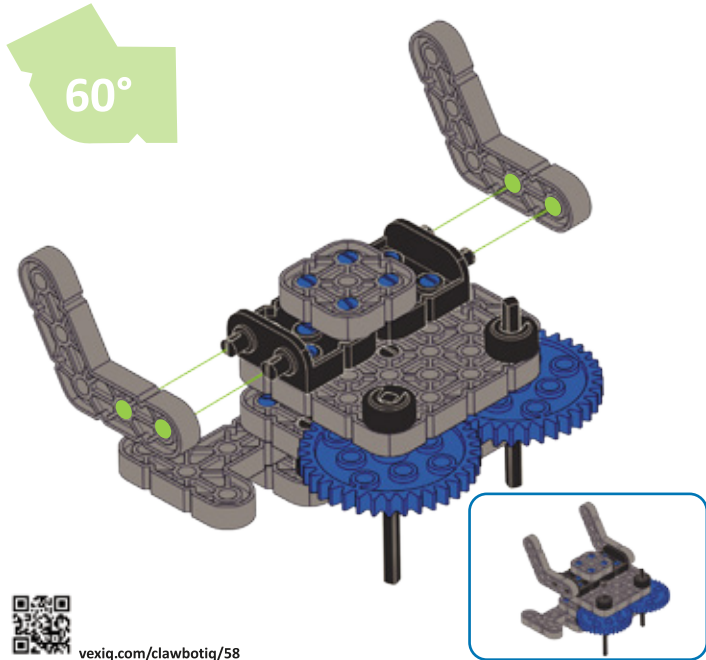
1x  
228-2500-017



vexiq.com/clawbotiq/57

58

2x  
228-2500-149 60°

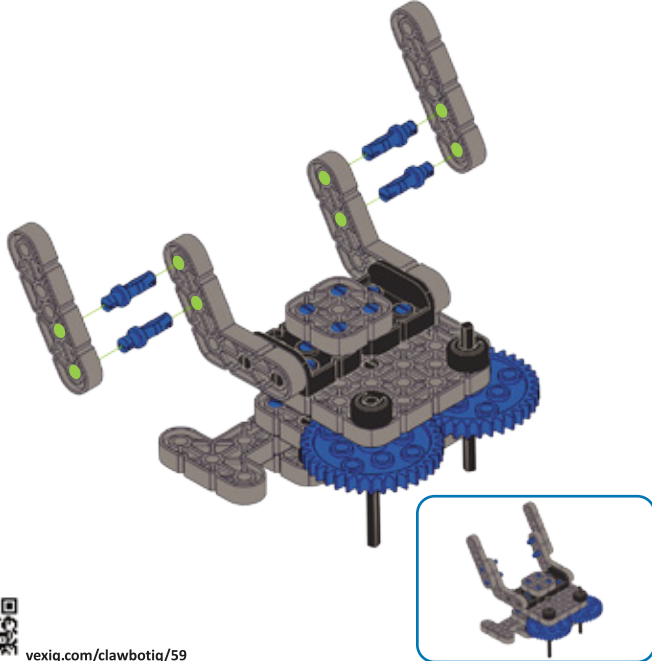


vexiq.com/clawbotiq/58

59

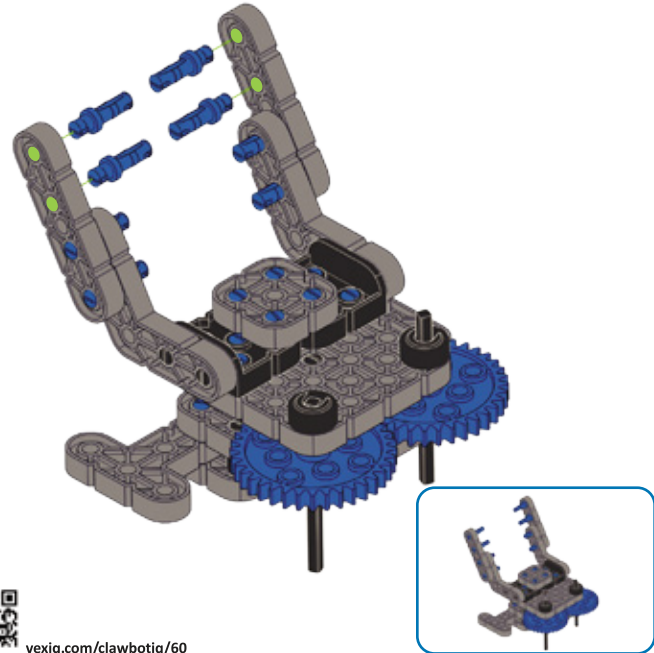
4x  
228-2500-061

2x  
228-2500-003



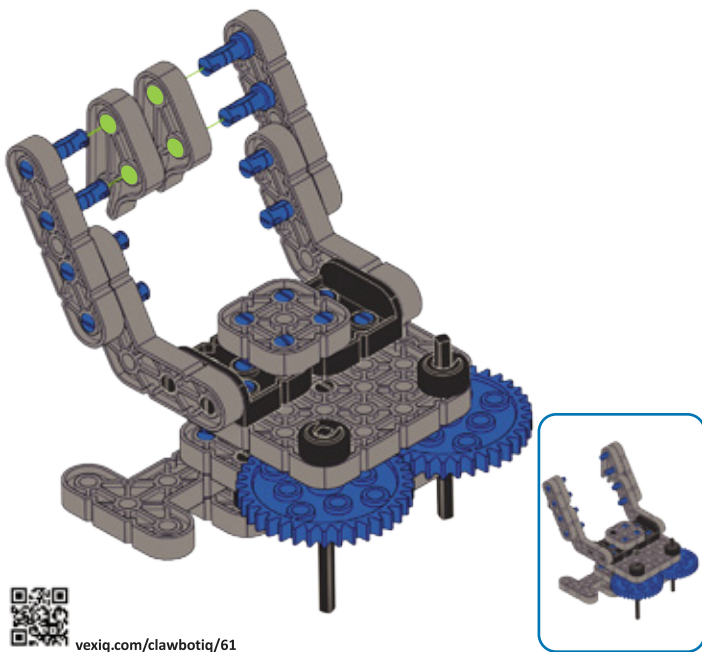
60

4x  
228-2500-061



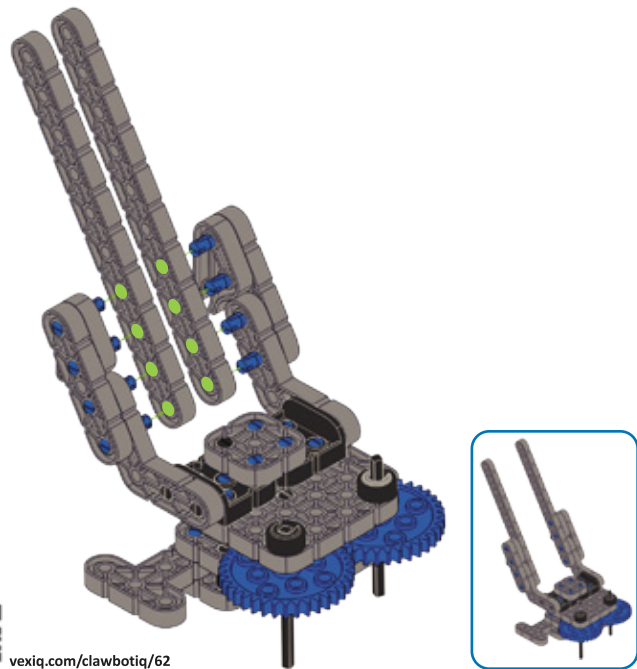
61

2x  
228-2500-157



62

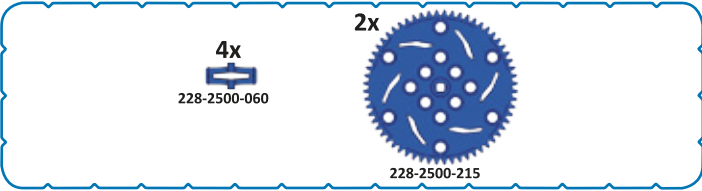
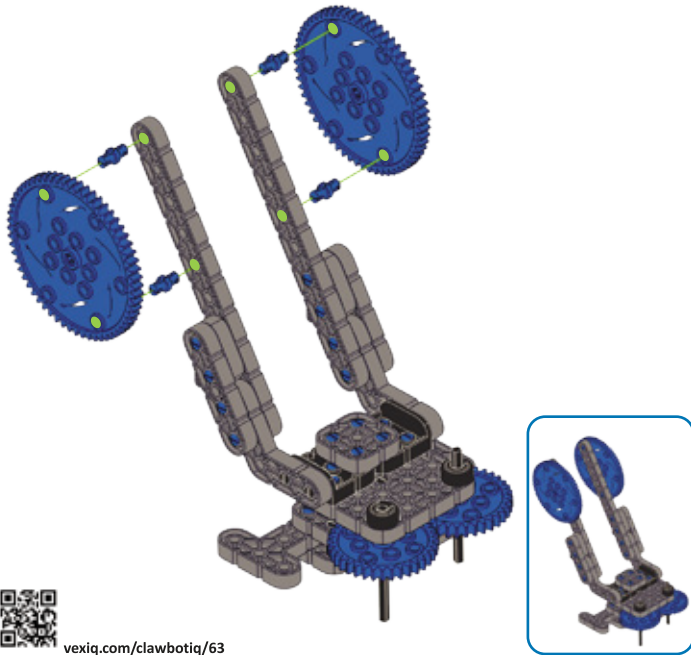
2x  
228-2500-009



63

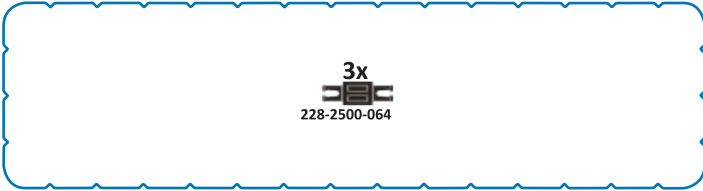
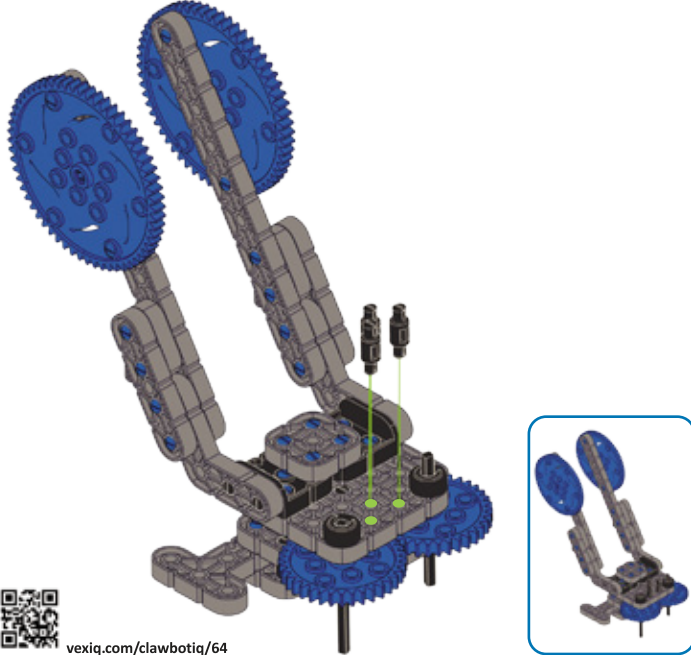
4x  
228-2500-060

2x  
228-2500-215

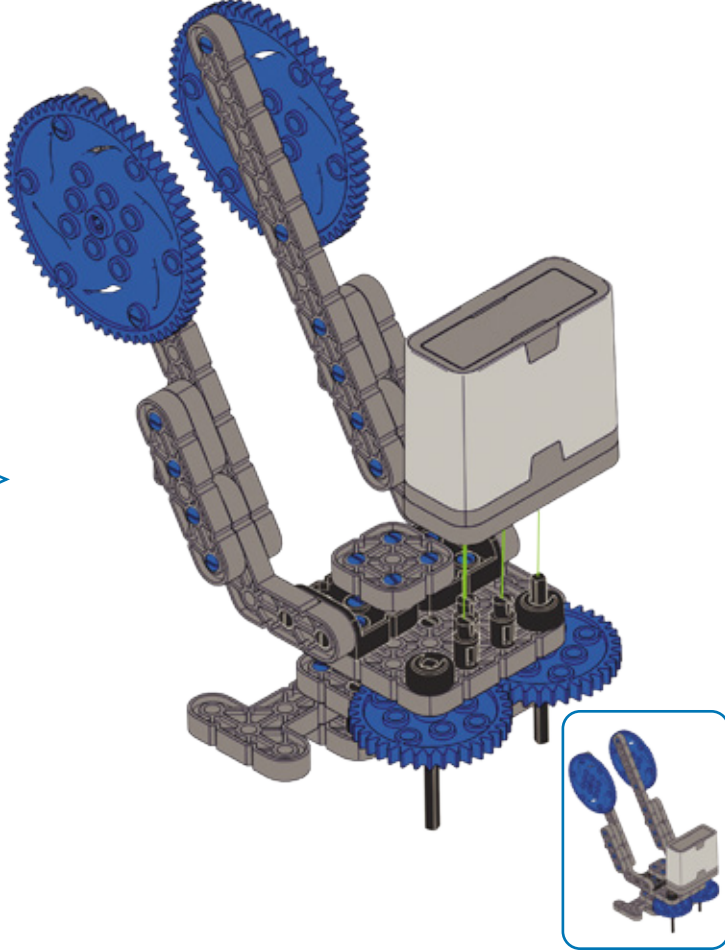
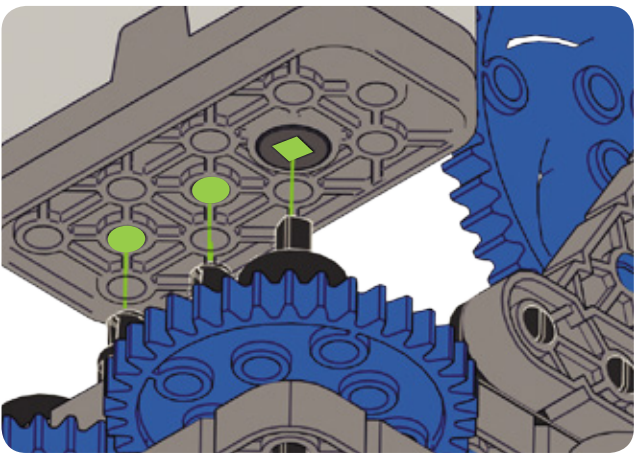
64

3x  
228-2500-064

65

1x  
228-2560

66

1x 228-2500-148 45°

2x 228-2500-060

1x 228-2500-141

45°

vexiq.com/clawbotiq/66

67

1x 228-2500-145

2x 228-2500-061

vexiq.com/clawbotiq/67

68

2x 228-2500-061

1x 228-2500-005

vexiq.com/clawbotiq/68

69

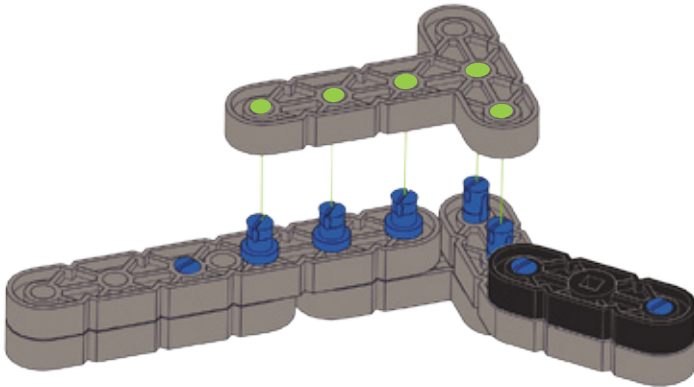
1x 228-2500-060

1x 228-2500-061

1x 228-2500-003

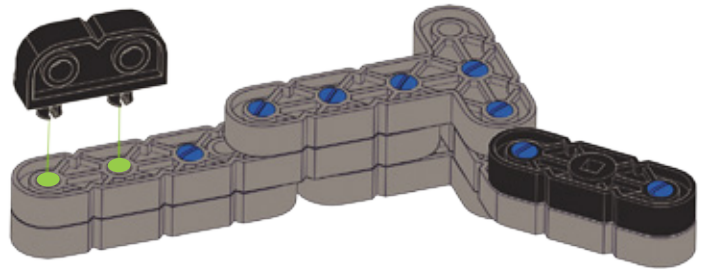
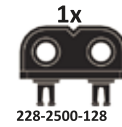
vexiq.com/clawbotiq/69

70



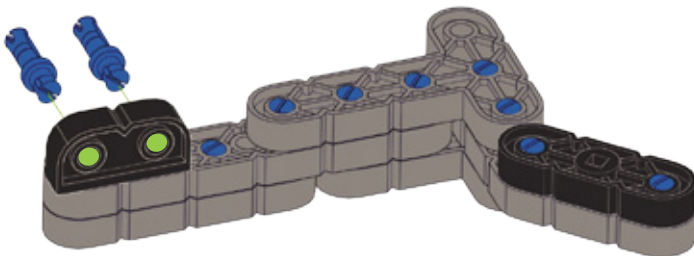
vexiq.com/clawbotiq/70

71



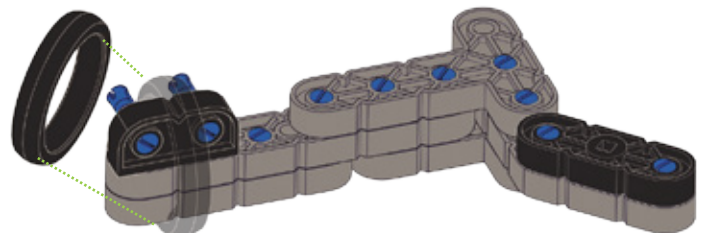
vexiq.com/clawbotiq/71

72



vexiq.com/clawbotiq/72

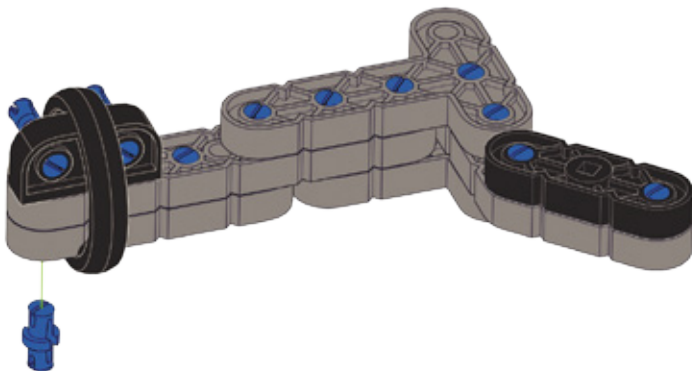
73



vexiq.com/clawbotiq/73

74

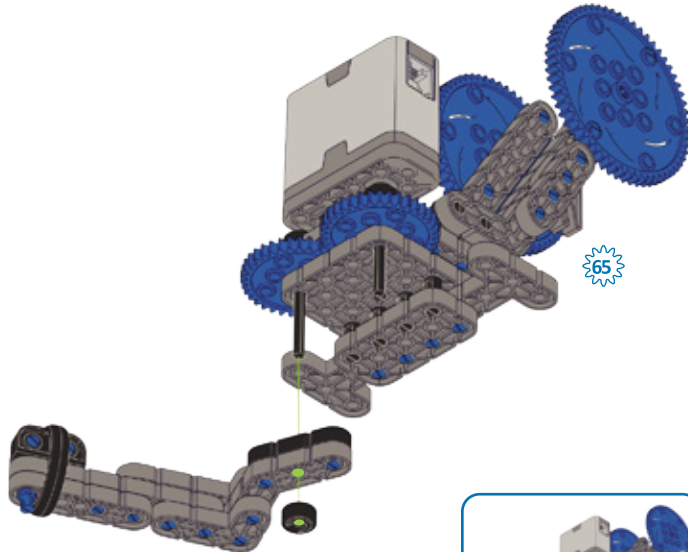
1x  
228-2500-060



vexiq.com/clawbotiq/74

75

1x  
228-2500-143



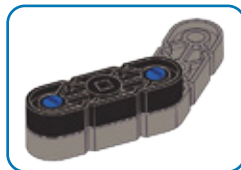
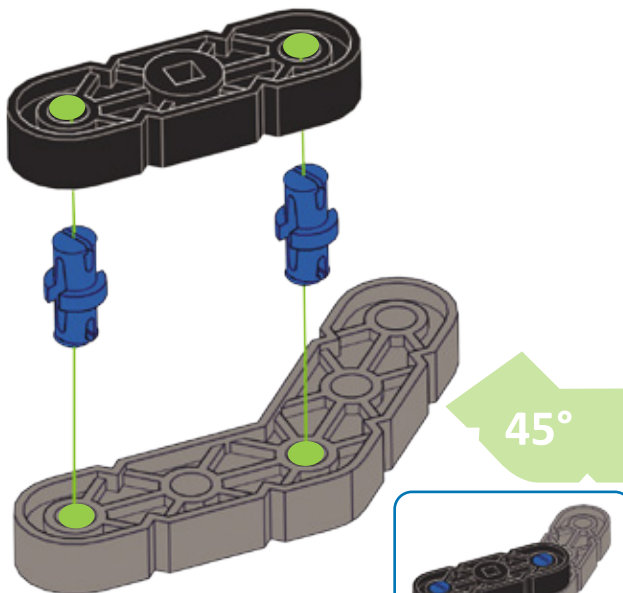
vexiq.com/clawbotiq/75

76

1x  
228-2500-148

2x  
228-2500-060

1x  
228-2500-141

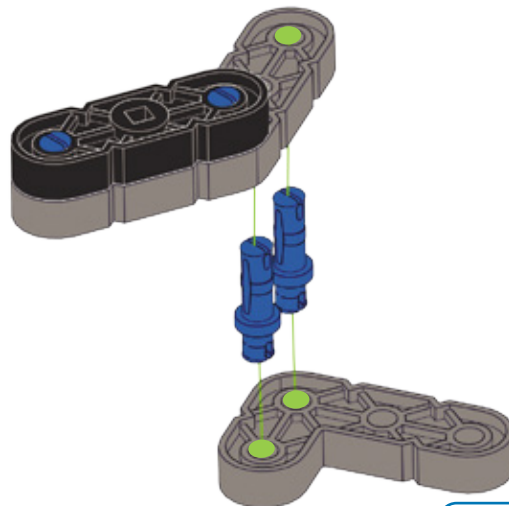


vexiq.com/clawbotiq/76

77

1x  
228-2500-145

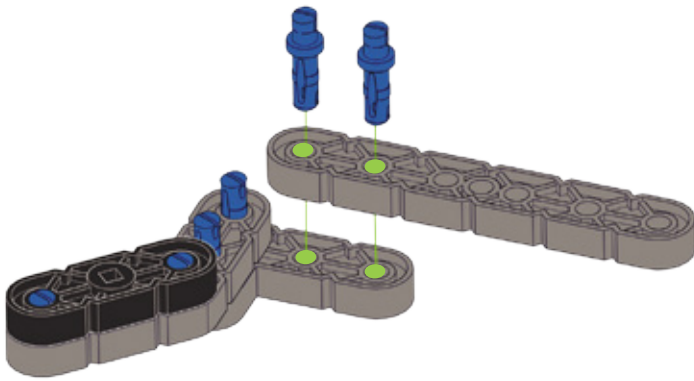
2x  
228-2500-061



vexiq.com/clawbotiq/77

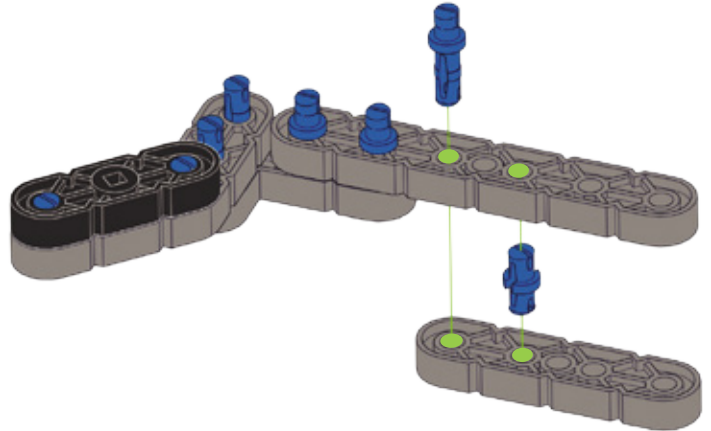
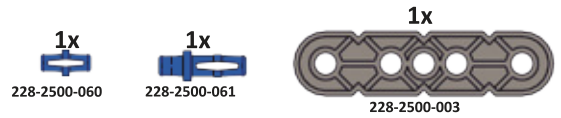


78



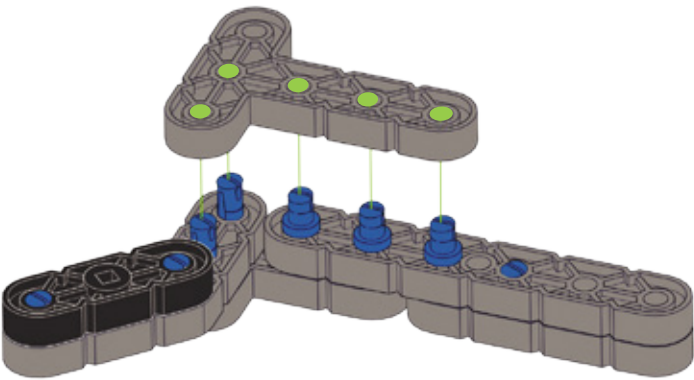
vexiq.com/clawbotiq/78

79



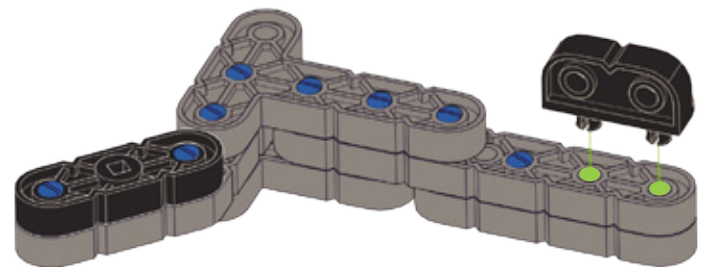
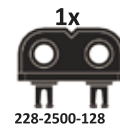
vexiq.com/clawbotiq/79

80



vexiq.com/clawbotiq/80

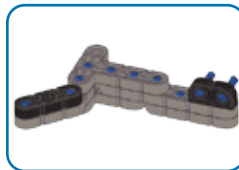
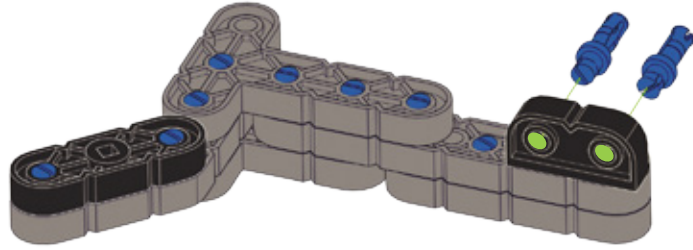
81



vexiq.com/clawbotiq/81

82

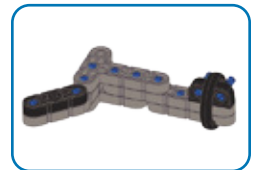
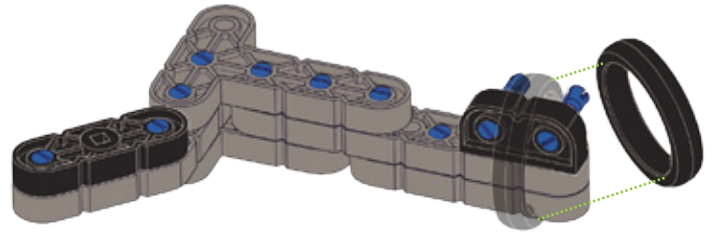
2x  
228-2500-061



 [vexiq.com/clawbotiq/82](http://vexiq.com/clawbotiq/82)

83

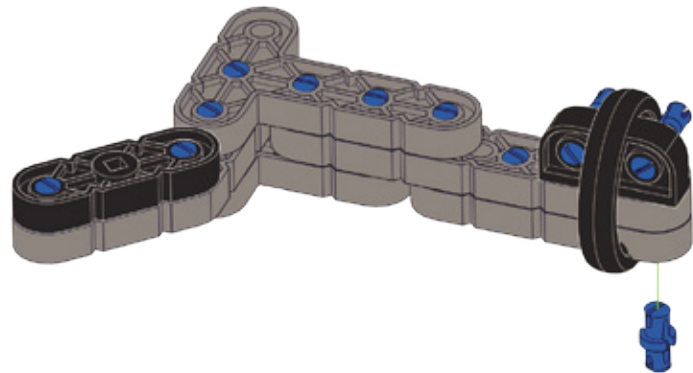
1x  
228-2500-207



 [vexiq.com/clawbotiq/83](http://vexiq.com/clawbotiq/83)

84

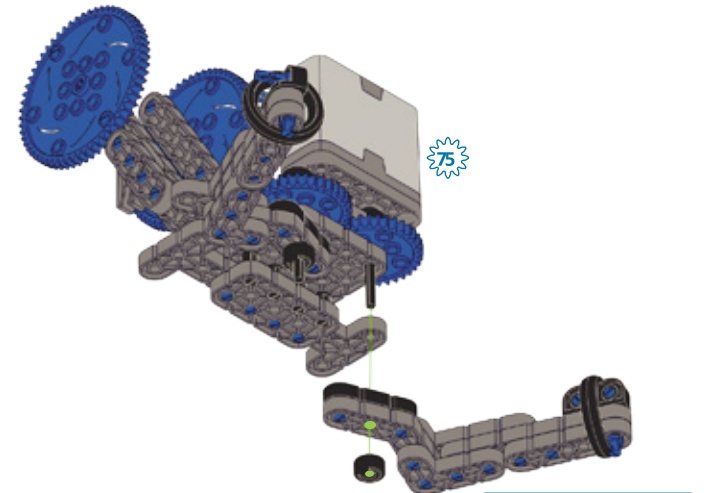
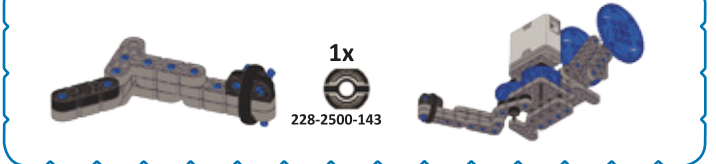
1x  
228-2500-060



 [vexiq.com/clawbotiq/84](http://vexiq.com/clawbotiq/84)


85

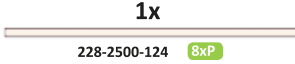
1x  
228-2500-143

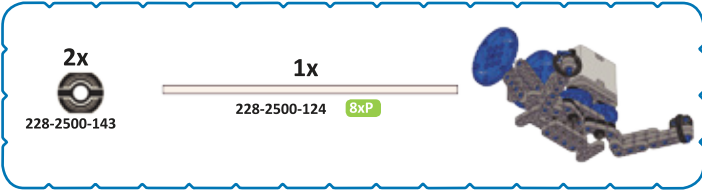
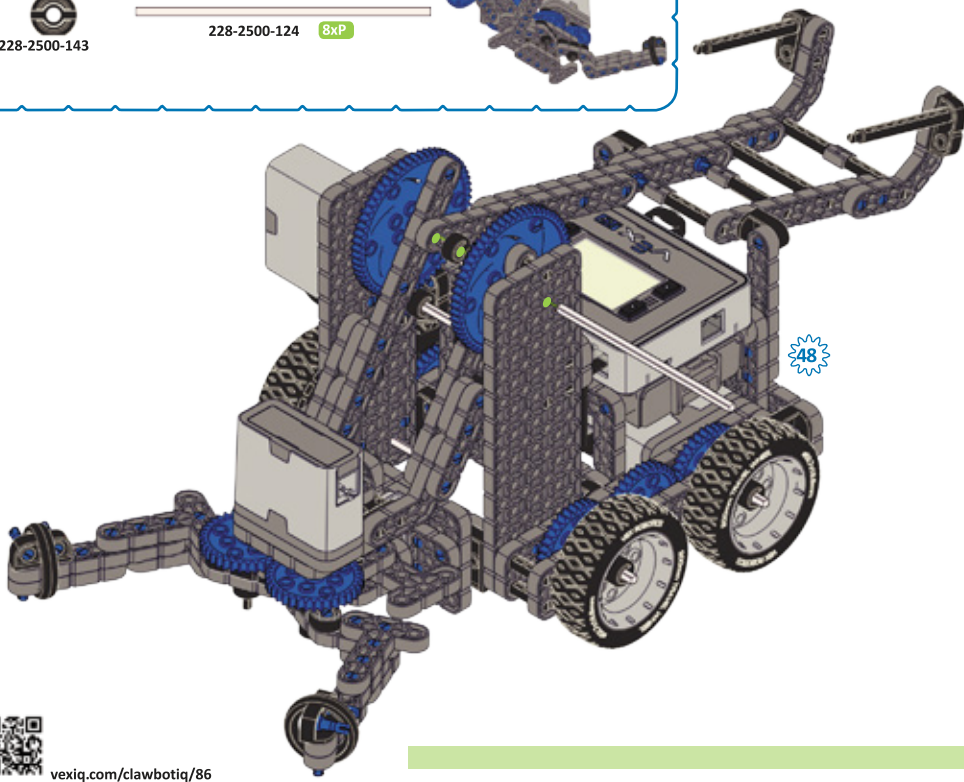
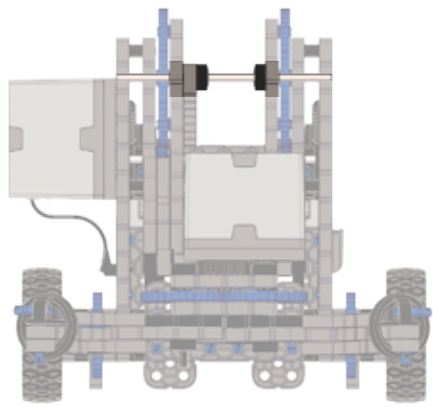


 [vexiq.com/clawbotiq/85](http://vexiq.com/clawbotiq/85)

86

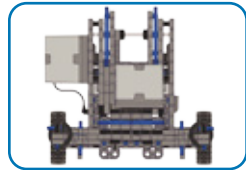
2x  228-2500-143

1x  228-2500-124 8xP


48

1:1

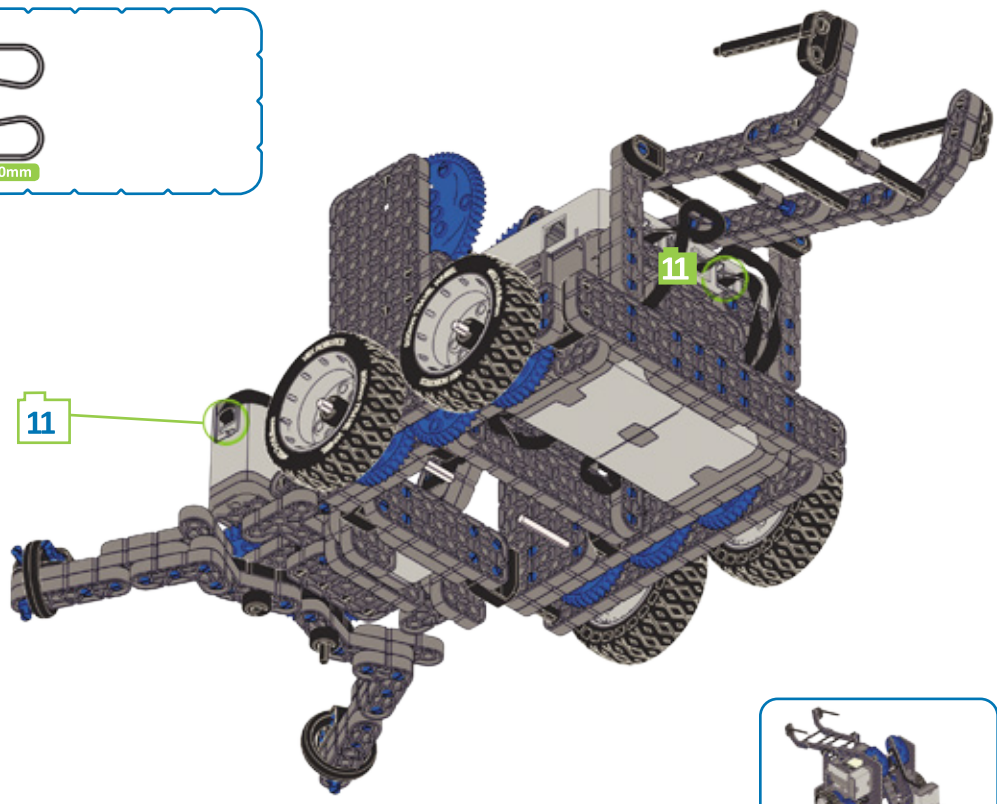


 [vexiq.com/clawbotiq/86](http://vexiq.com/clawbotiq/86)

87

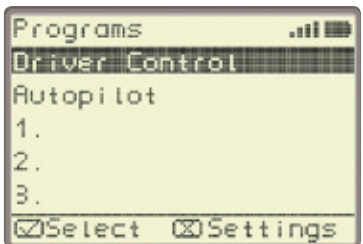


228-2780-004 600mm



11

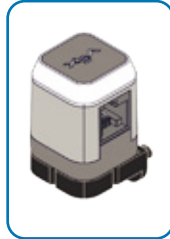
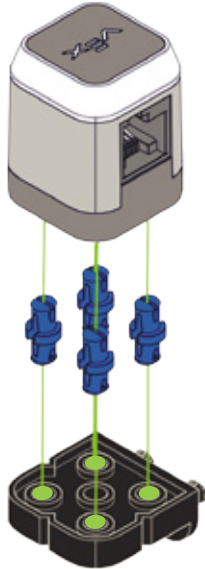
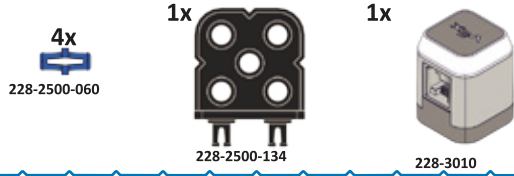
11



 [vexiq.com/clawbotiq/87](http://vexiq.com/clawbotiq/87)

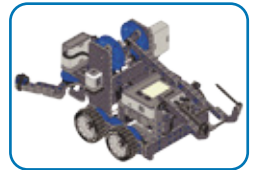
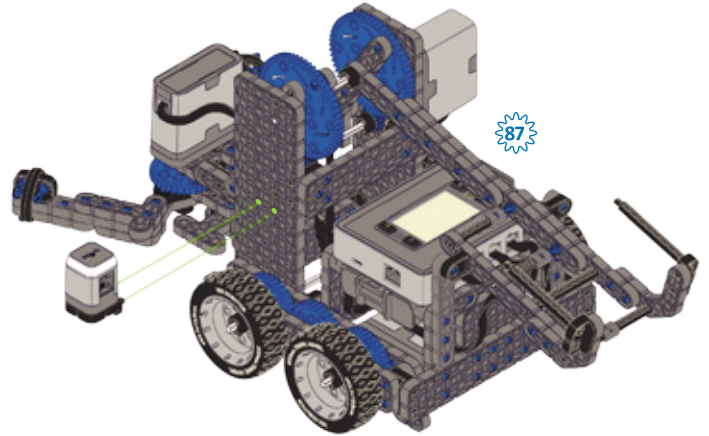
# 3. Clawbot IQ с сенсорами

88



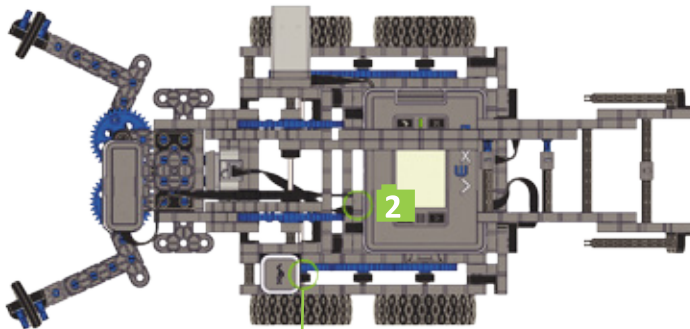
vexiq.com/clawbotiq/88

89



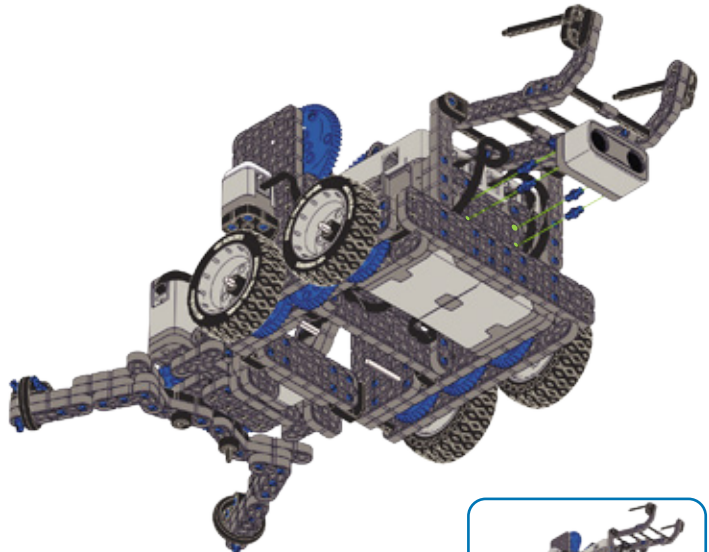
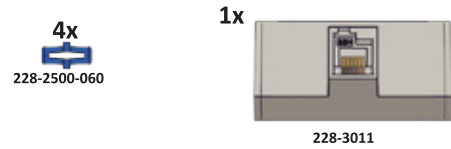
vexiq.com/clawbotiq/89

90



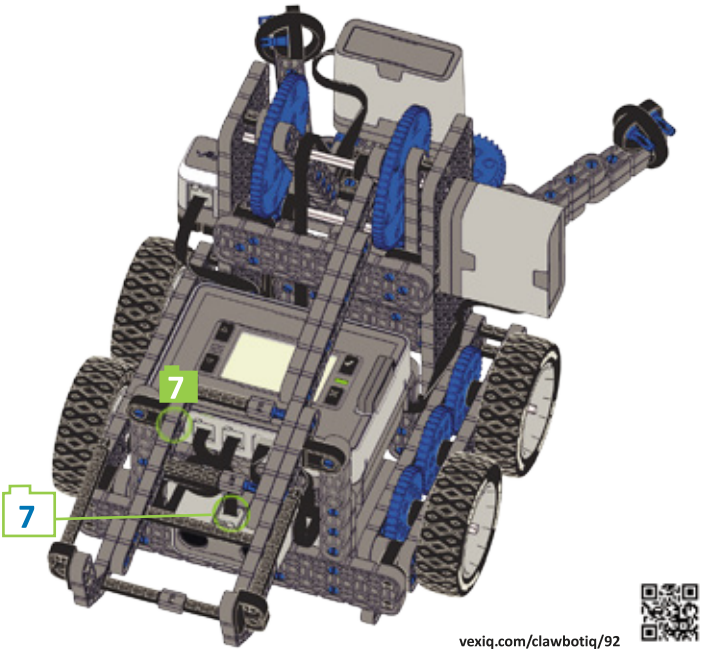
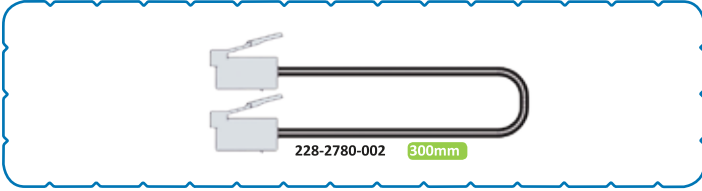
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91

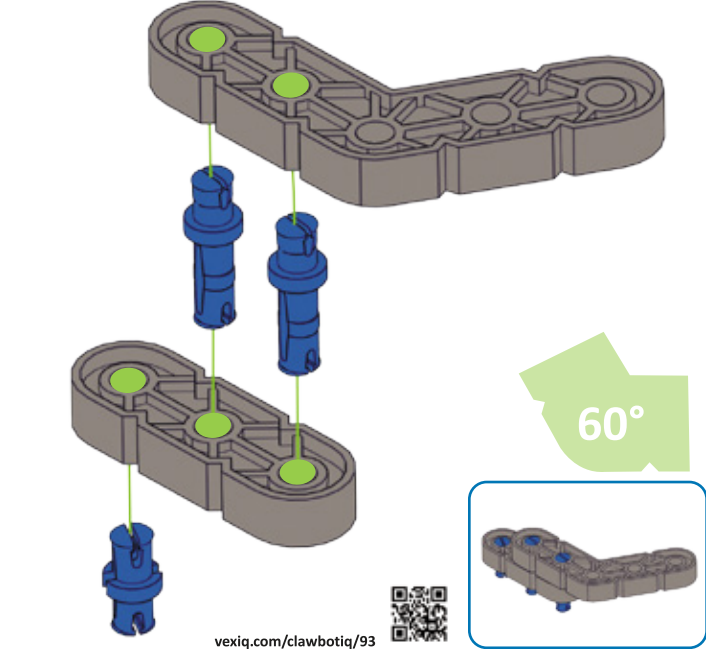
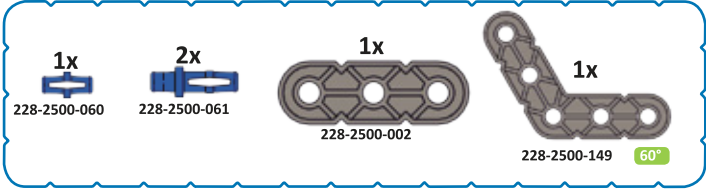


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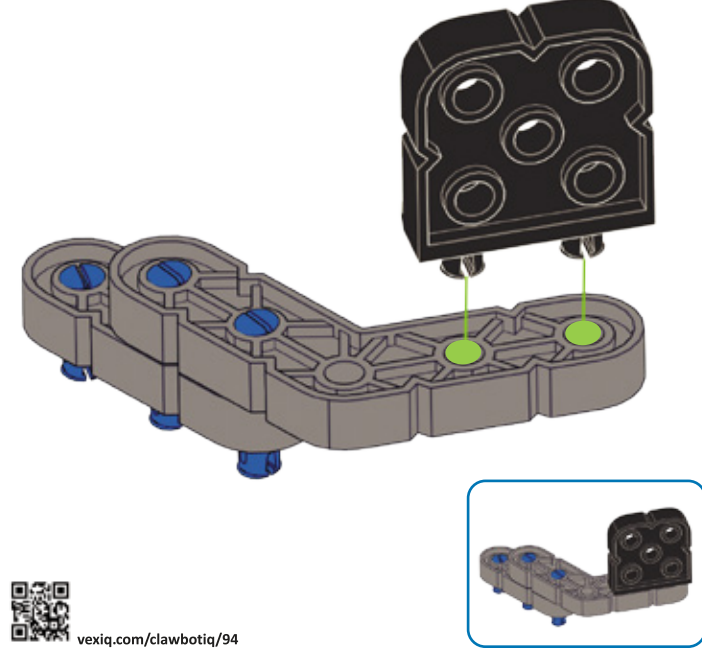
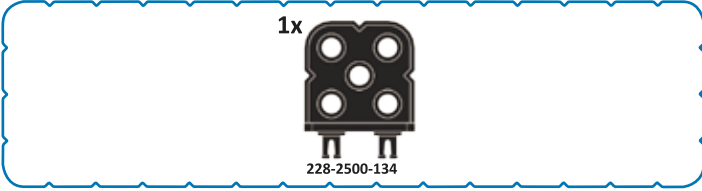
92



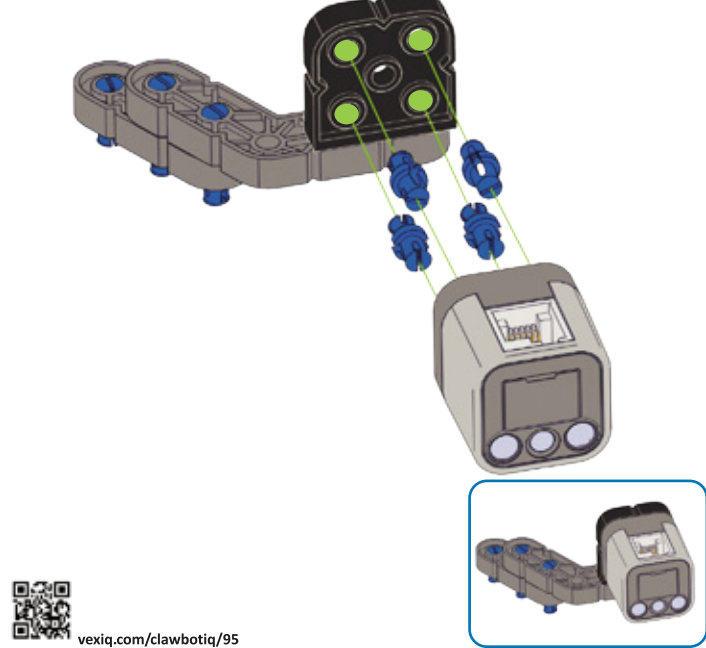
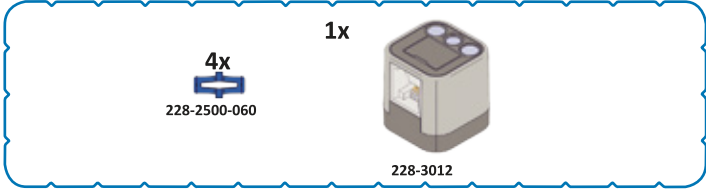
93



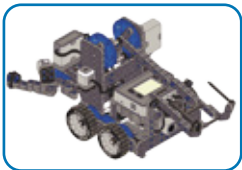
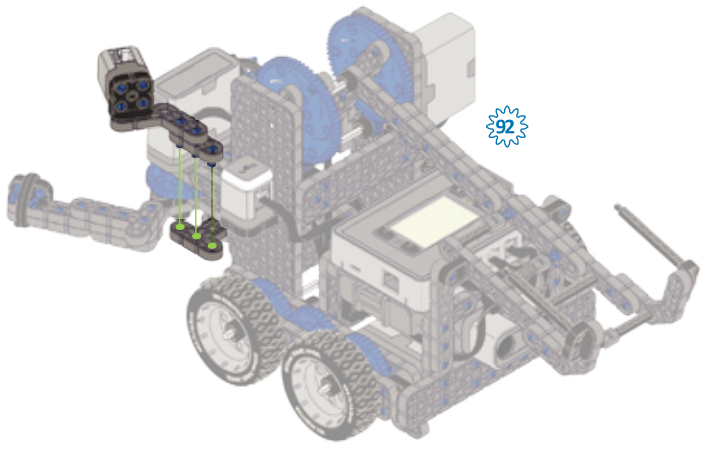
94



95

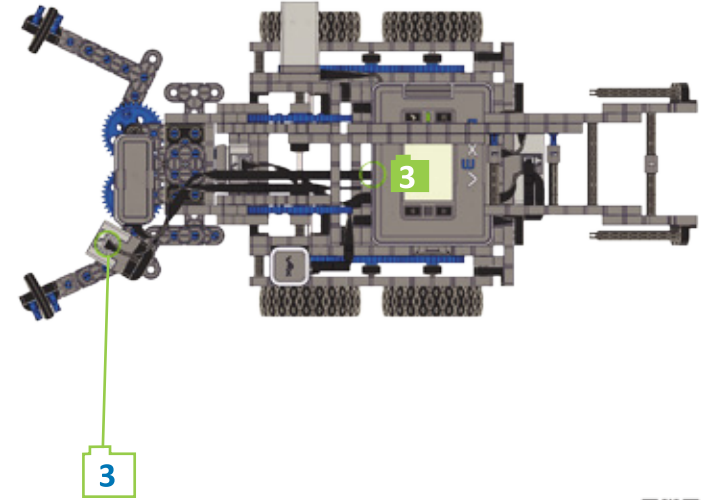
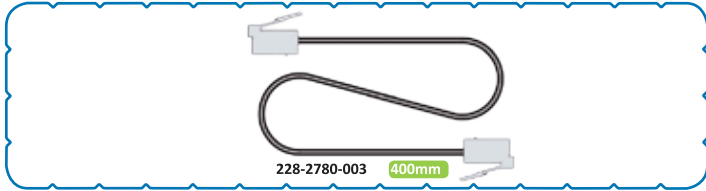


96



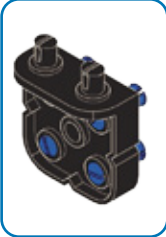
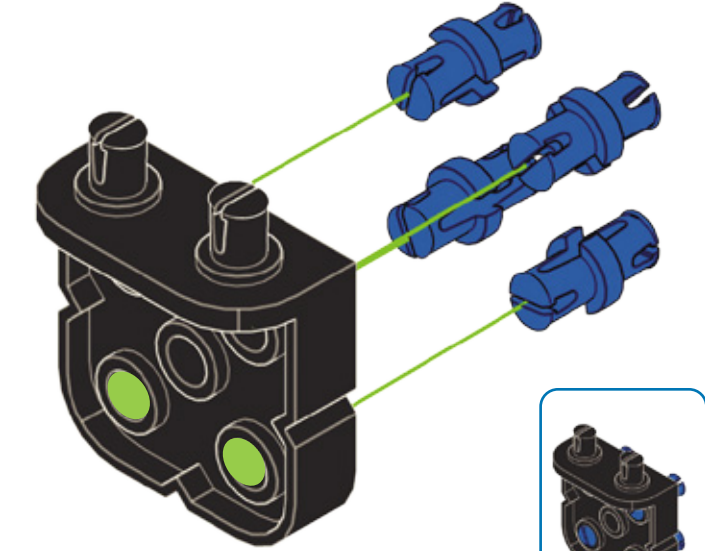
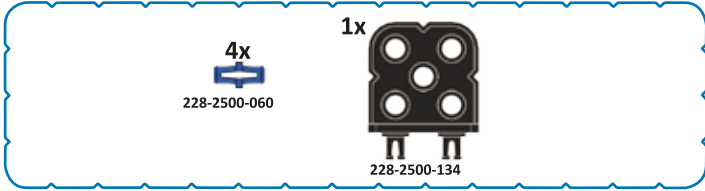
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97



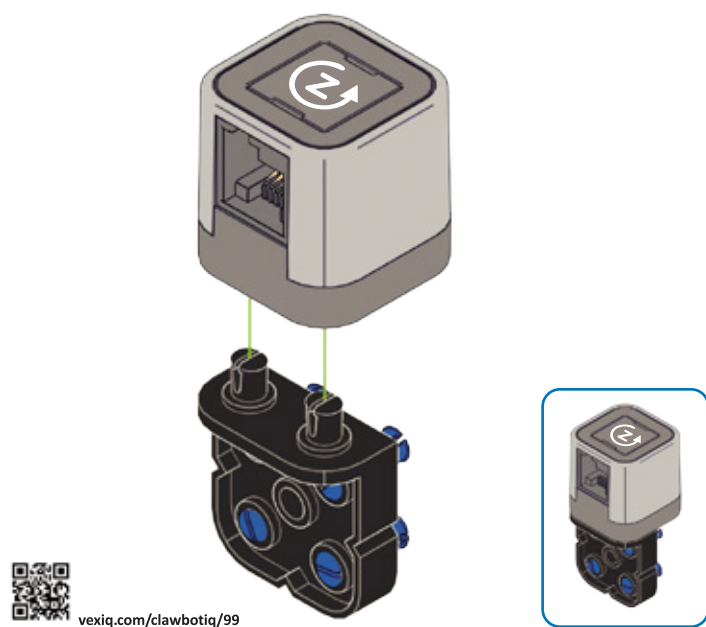
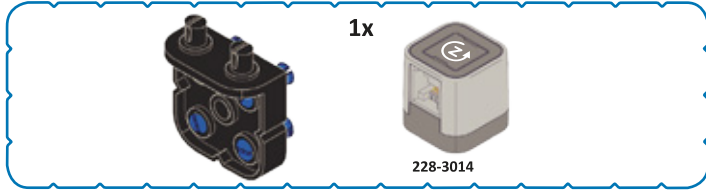
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98



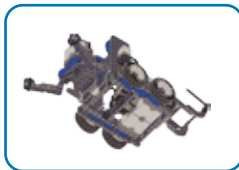
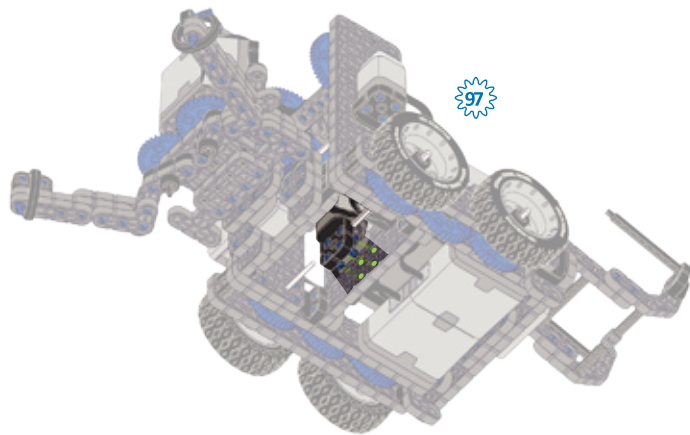
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99



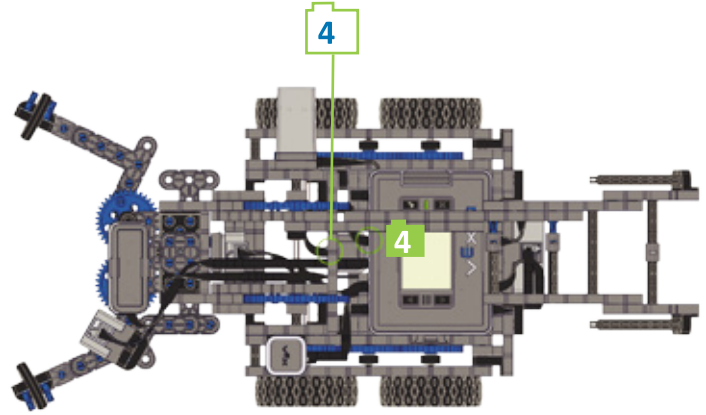
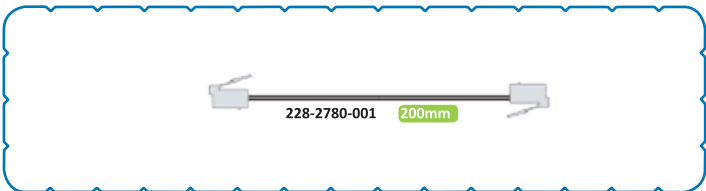
vexiq.com/clawbotiq/99

100

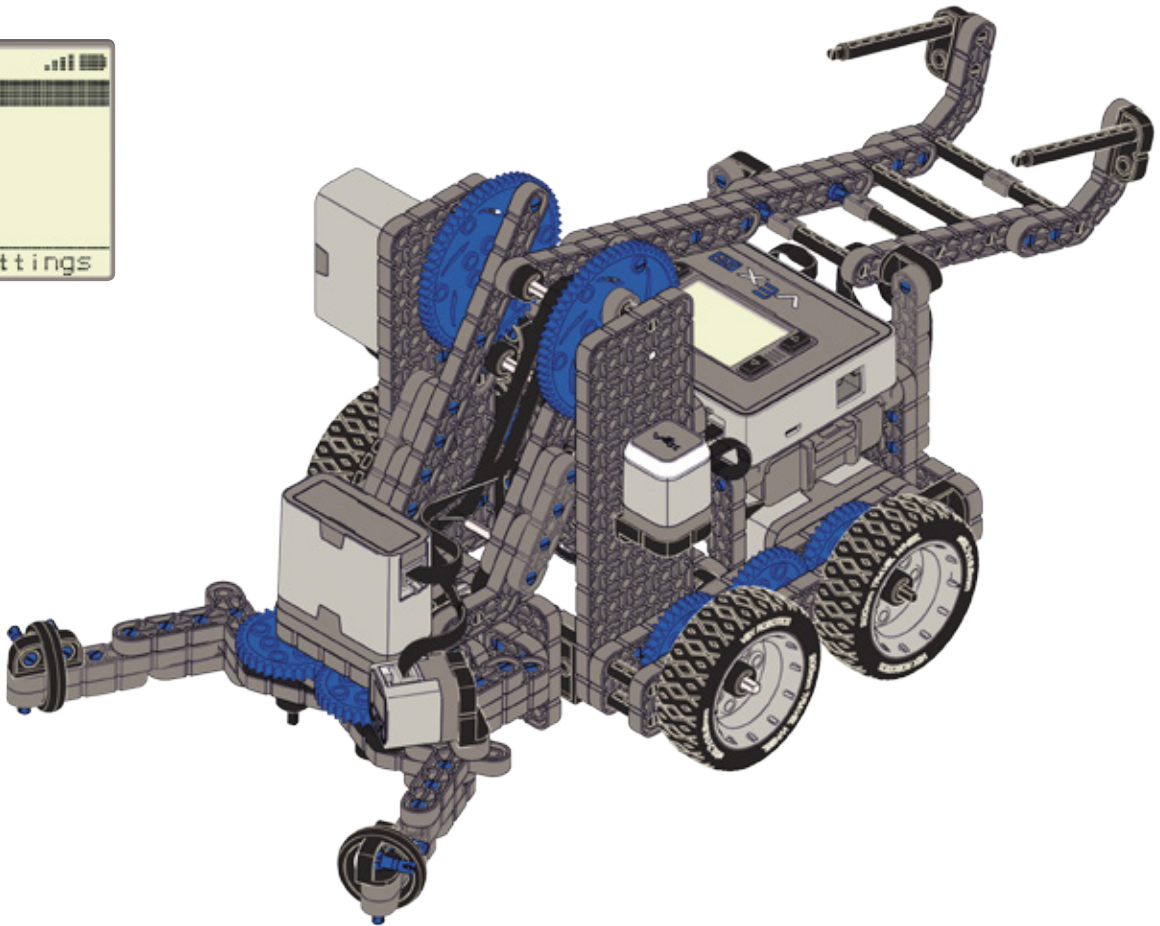
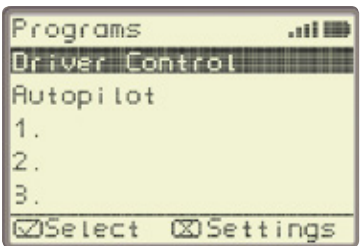


vexiq.com/clawbotiq/100

101



vexiq.com/clawbotiq/101

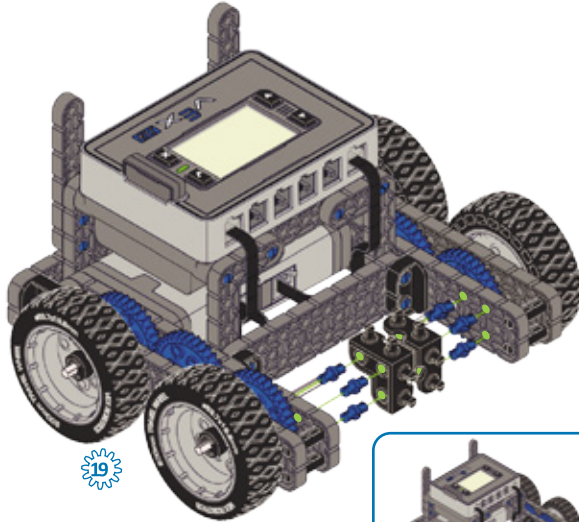


# 4. Автопилот

102

6x  
228-2500-060

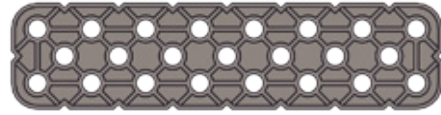
2x  
228-2500-126



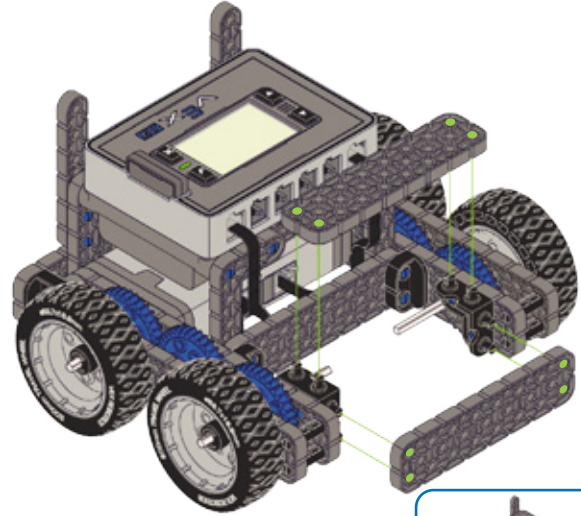
vexiq.com/clawbotiq/102

103

2x



228-2500-023

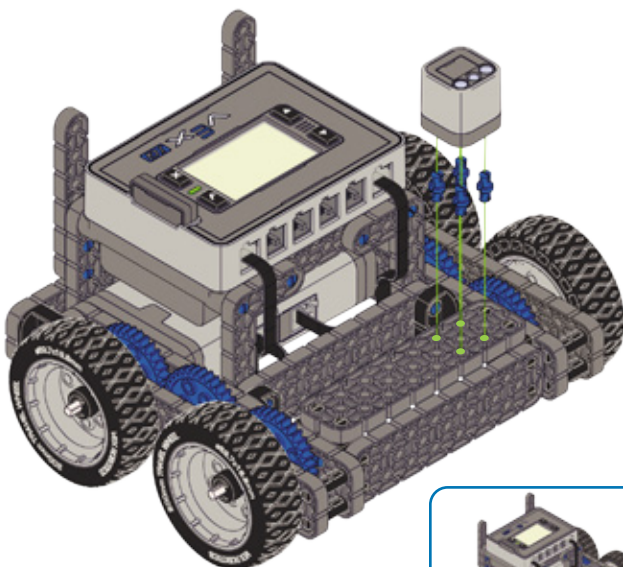


vexiq.com/clawbotiq/103

104

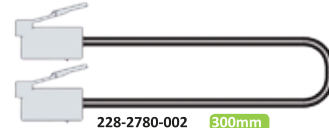
4x  
228-2500-060

1x  
228-3012

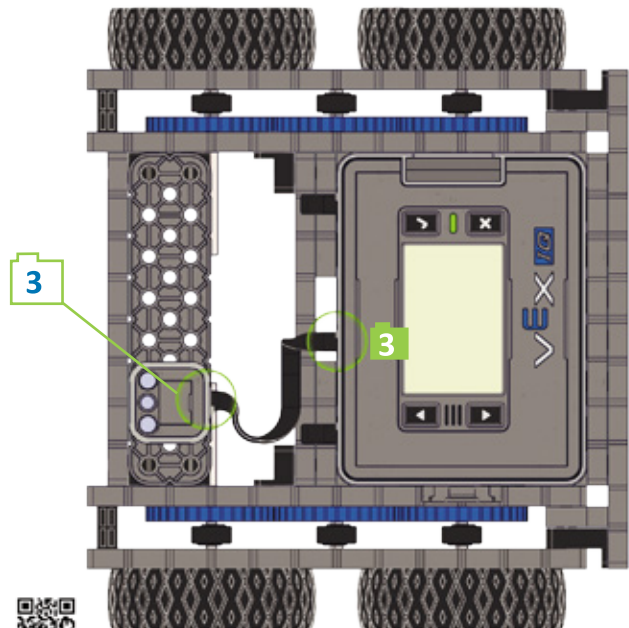


vexiq.com/clawbotiq/104

105



228-2780-002 300mm




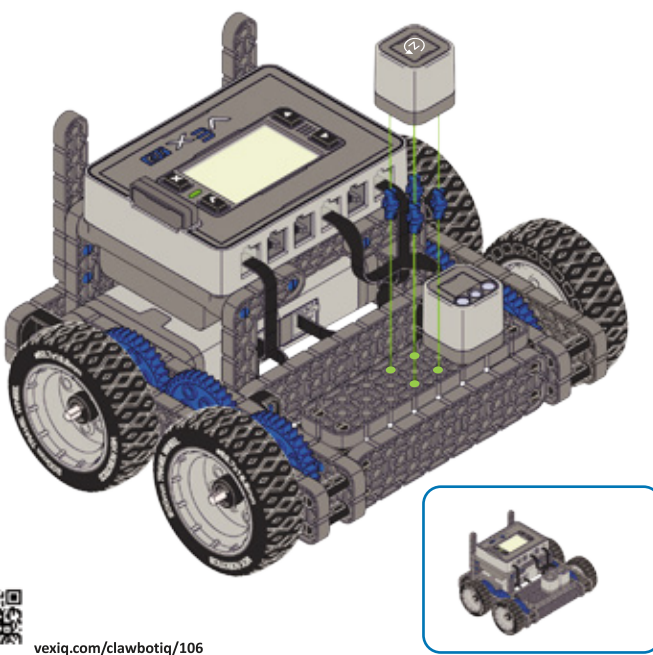
vexiq.com/clawbotiq/105



106

4x  
228-2500-060

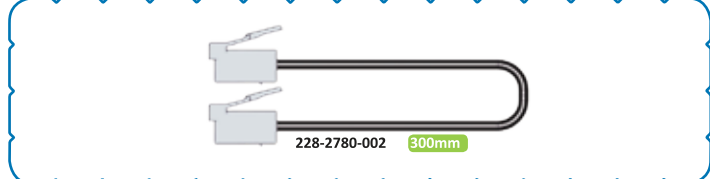
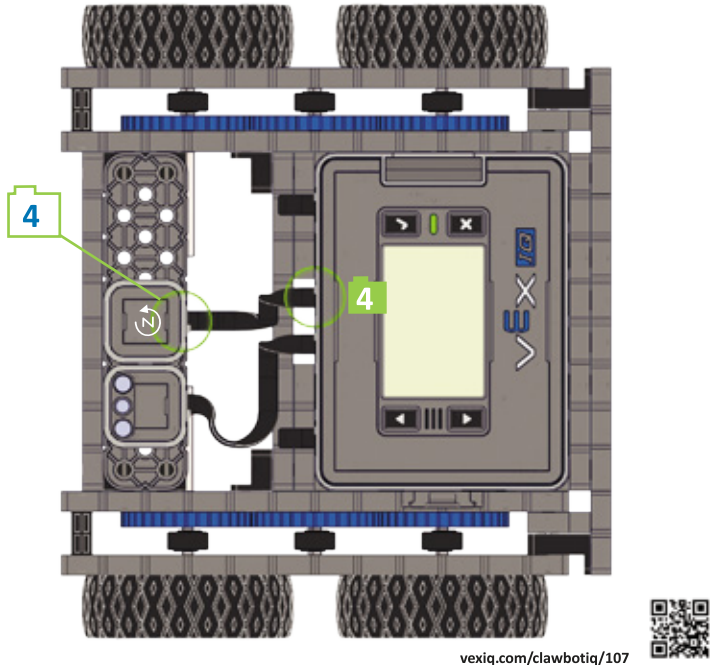
1x  
228-3014

vexiq.com/clawbotiq/106

107

228-2780-002 300mm

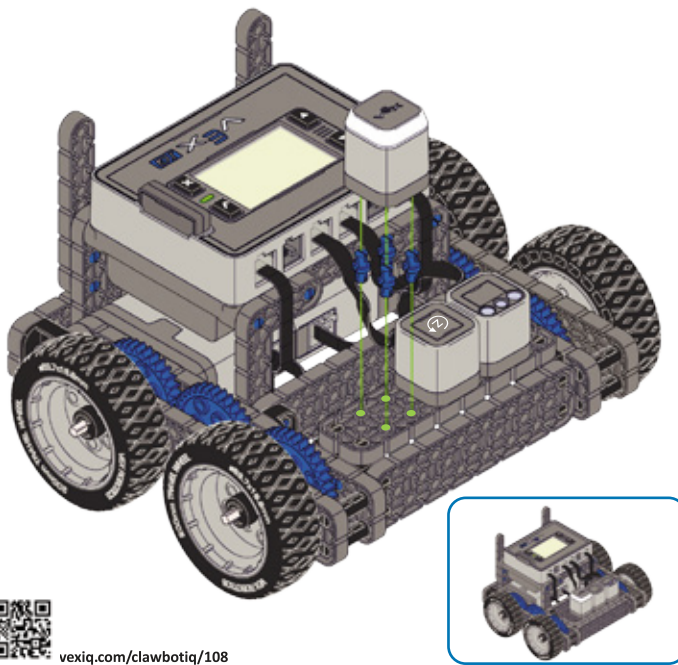



vexiq.com/clawbotiq/107

108

4x  
228-2500-060

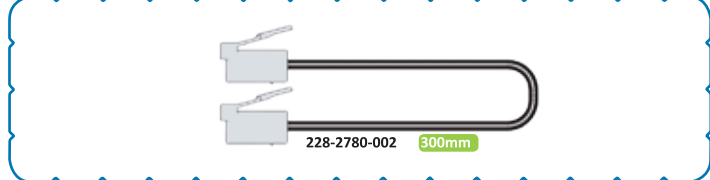
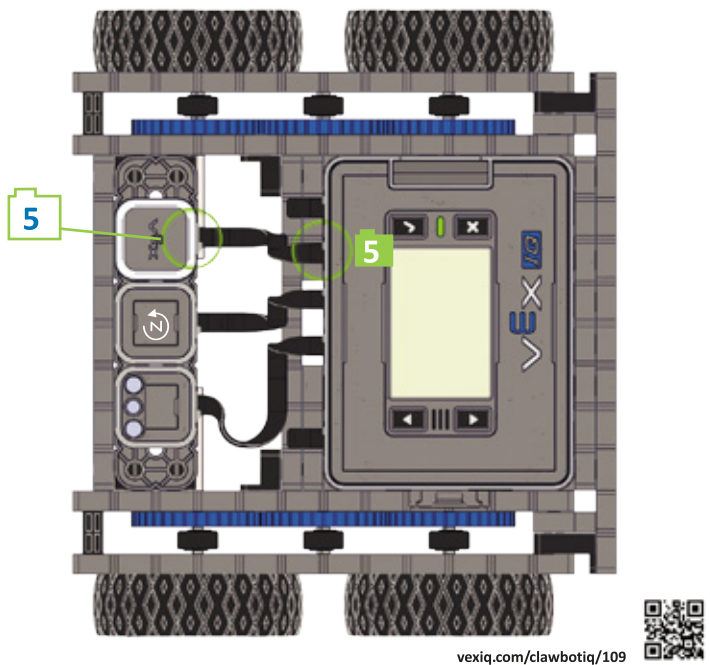
1x  
228-3010

vexiq.com/clawbotiq/108

109

228-2780-002 300mm

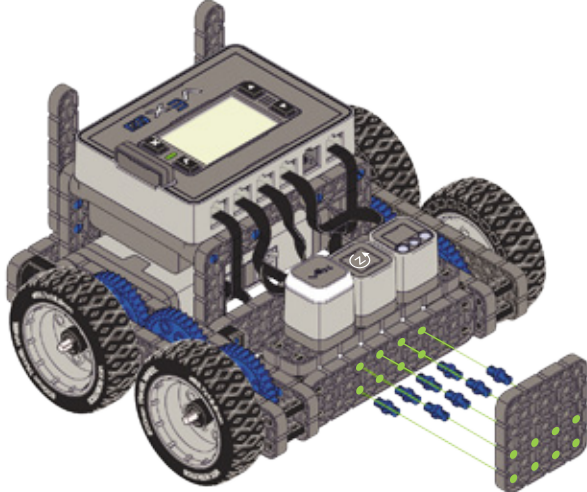



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110

8x  
228-2500-060

1x  
228-2500-040

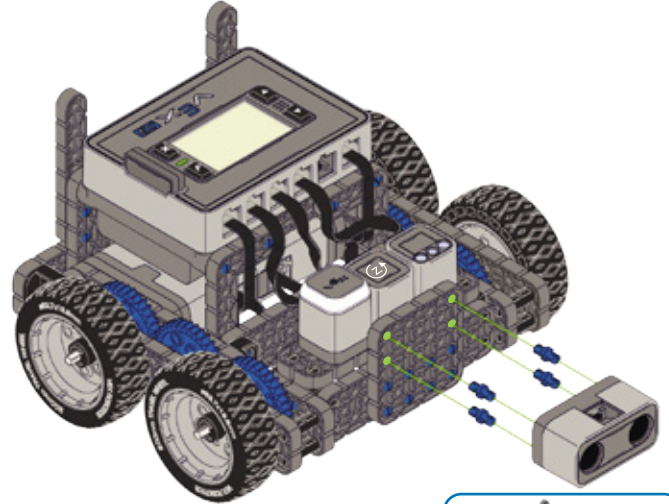


vexiq.com/clawbotiq/110

111

4x  
228-2500-060

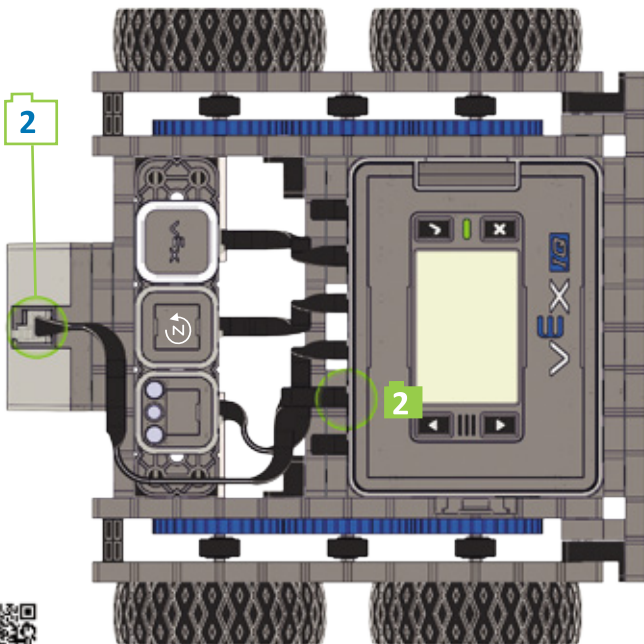
1x  
228-3011



vexiq.com/clawbotiq/111

112

228-2780-002 300mm

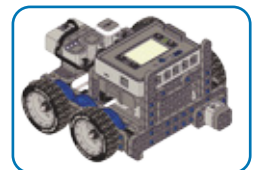
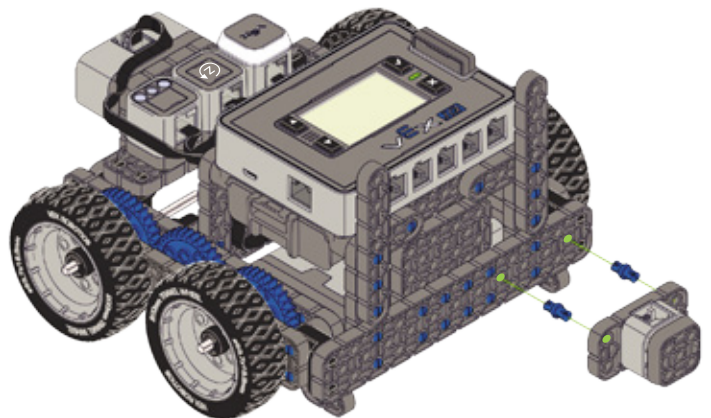


vexiq.com/clawbotiq/112

113

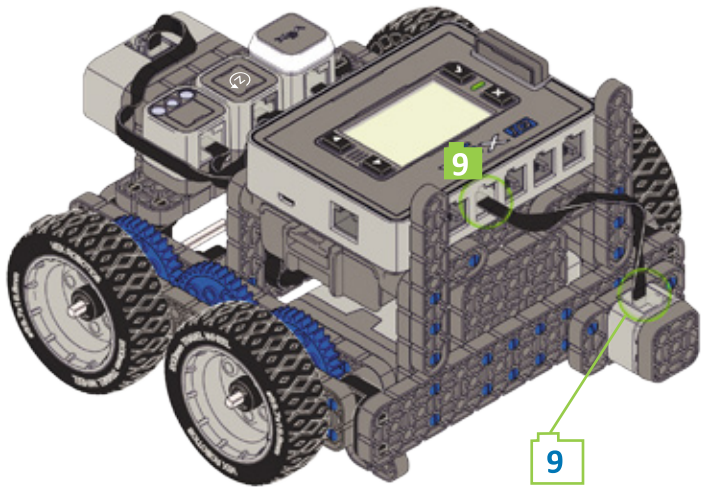
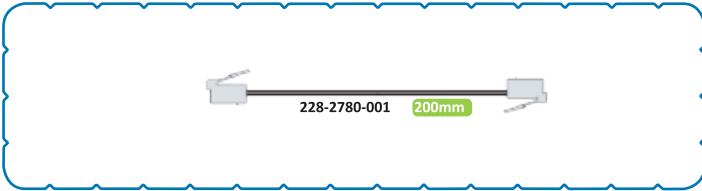
2x  
228-2500-060

1x  
228-2677



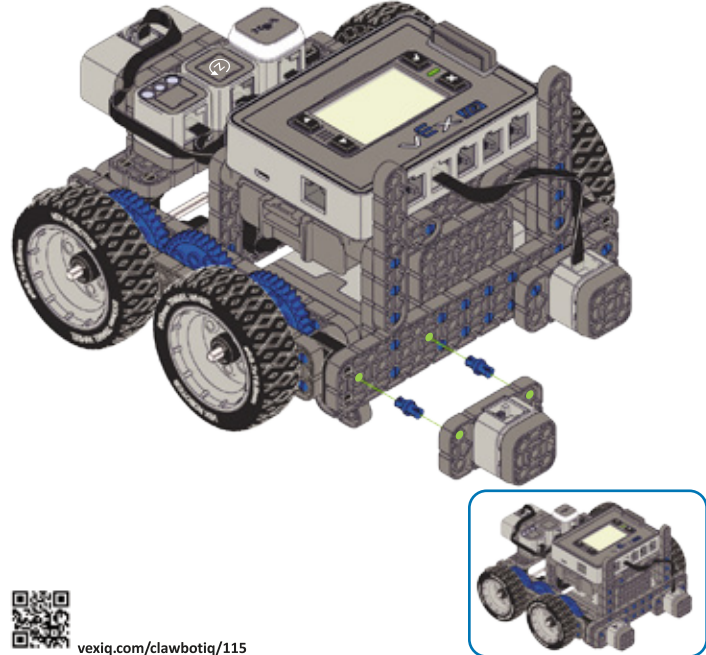
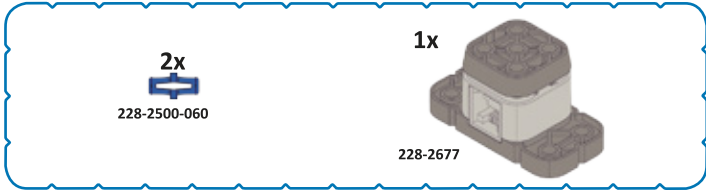
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114



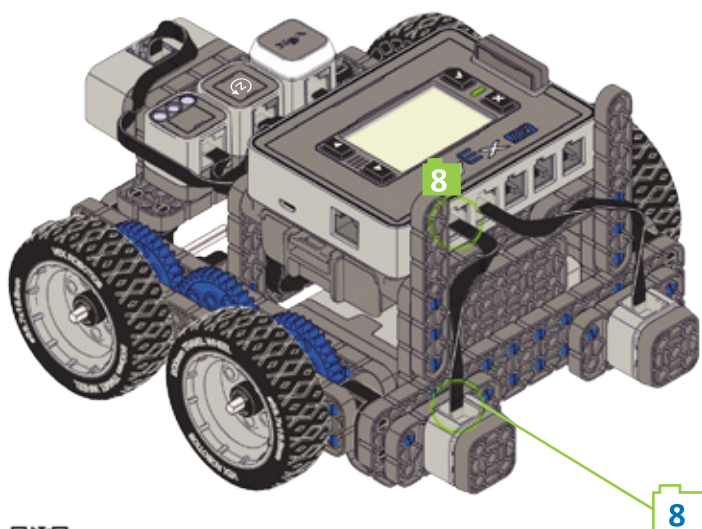
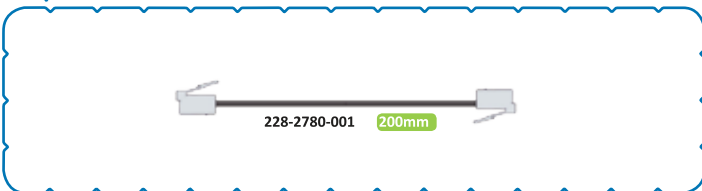
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115

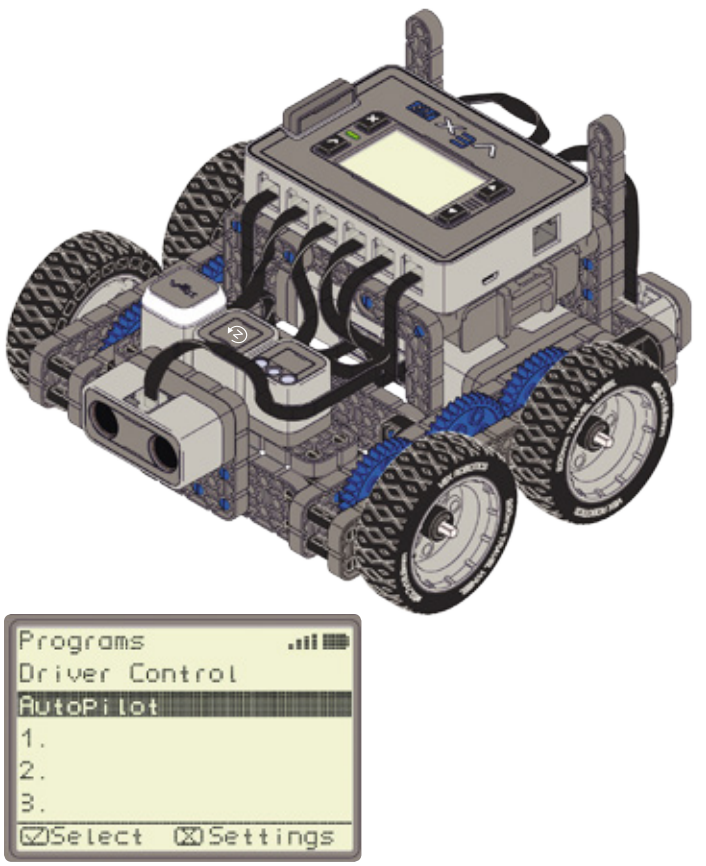


vexiq.com/clawbotiq/115

116



vexiq.com/clawbotiq/116





# Инструкция по сборке Clawbot IQ

