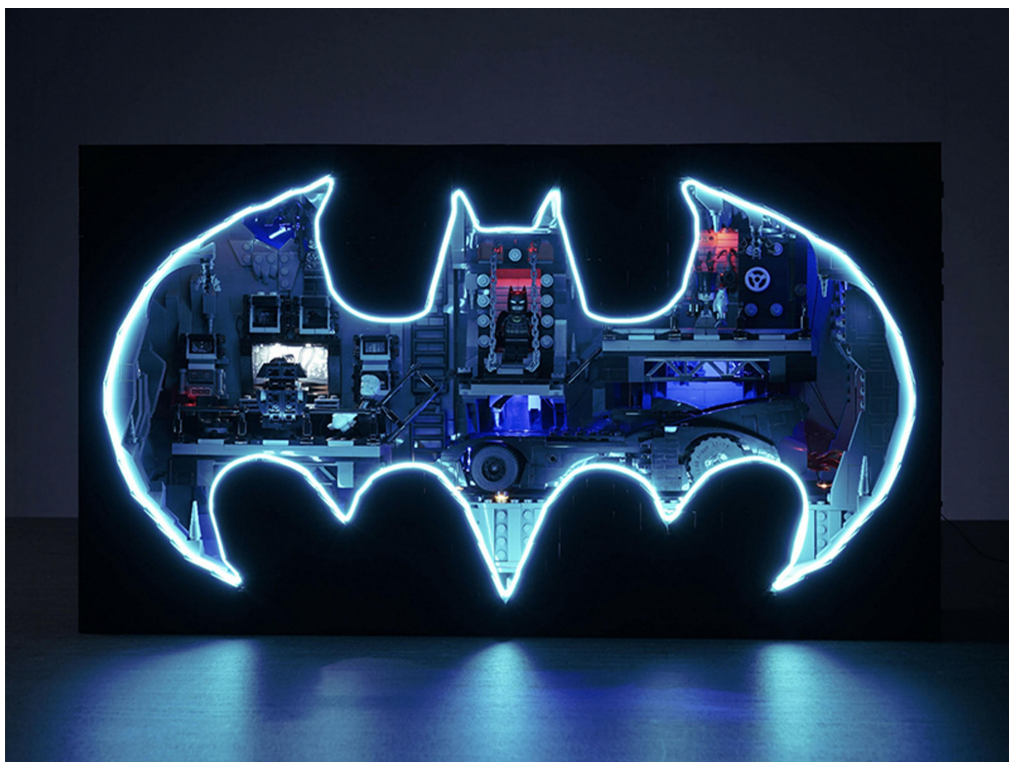# 76252 Batcave – Shadow Box P50402

- **Installation requires a lot of patience and great observation that your LEGO bricks will come alive when you get this finished. The bricks with lighting as below, so make sure you're ready and let's get started.**

Strategies for the Installation

This instruction divides three sections to complete the installation of the lighting set.

Section A：Check the type and quantity of components.

The quantity and type of components of each products are different and it needs to be carefully checked to make sure there do have enough material. The type of components is indicated by the label on the bag.

Section B：Test that each components is working properly.

Each components is made individually so it is necessary to test that each components is working properly to avoid the situation that the lighting does not work .

Section C：laying out components following the instruction.

Our material is very small but not fragile, just be reminded that don't to pull the wires too hard. For different people, there may be some installation steps that you can't understand. Please look at the previous and later installation step.

Section A： Check the type and quantity of components.
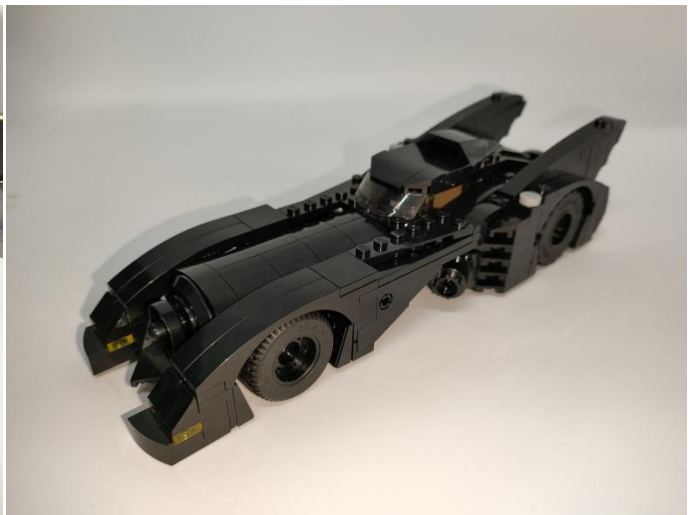
There are 21 bags in this set. The name and quantities of specific components are as shown , please check carefully.

Label	Content	Quantity
A01001 Light-15CM Warm White	Light-15CM Warm White	17
A01011 Light-30CM Warm White	Light-30CM Warm White	8
A01024 High-Brightness light 15CM-Warm White	High-Brightness light 15CM-Warm White	2
A01101 LED Strip Red	LED Strip Red	2
A01103 LED Strip Blue	LED Strip Blue	4
A01104 LED Strip White	LED Strip White	1
A012 Expansion Board	4 Socket Expansion Board	3
	6 Socket Expansion Board	4
	8 Socket Expansion Board	1
	12 Socket Expansion Board	1
	2 Socket Expansion Board	1
	6 Socket Expansion Board-flat	1
A01305 Power Supply	Power Supply	1
A01501 Connecting Cable 5CM	Connecting Cable 5CM	3
A01502 Connecting Cable 15CM	Connecting Cable 15CM	5
A01503 Connecting Cable 30CM	Connecting Cable 30CM	3
A01504 Connecting Cable 50CM	Connecting Cable 50CM	2
A01506 Connecting Cable 20CM	Connecting Cable 20CM	6
A01906 Music Module	Music Module	1
A02103 Flash Light-15CM Red	Flash Light-15CM Red	1
A02517 Light Strip-Blue	Light Strip-Blue	1
A02552 Light Strip-Blue-COB	Light Strip-Blue-COB	1
A02553 Light Strip-Cyan-COB	Light Strip-Cyan-COB	1
A1031 High-Brightness Light 15CM-Red	High-Brightness Light 15CM-Red	1
A1035 High-Brightness Light 15CM-Blue	High-Brightness Light 15CM-Blue	2
Components		

Please contact us immediately if there have any missing components.

Section B: Test that each components is working properly.

   We need a structure to test all lights, so take out the bag with label "USB Power Cord"and "Expansion Boards"as follows.

   It is worth reminding that our products are all customized. They have a unique way of connecting. The white plug on wire and the socket of the expansion board need to be connected together to transmit power.
  Note that on one side of the white plug you can see two very small golden wires that should be connected to the two golden needles in socket of the expansion board.shown as blow.
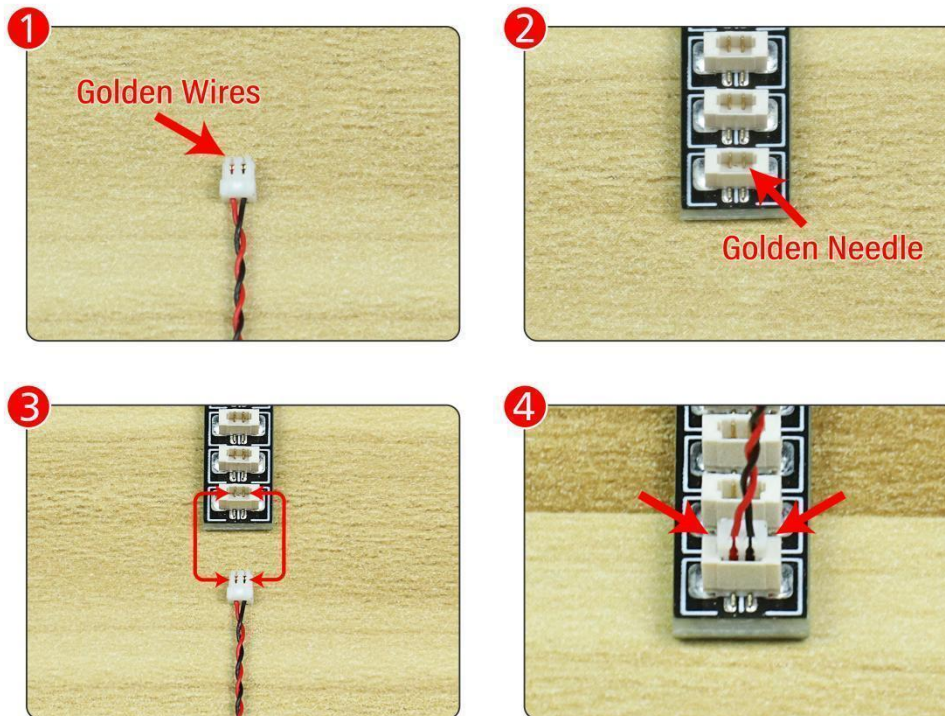
All our connections between plug and socket are all the same as shown above. So for any such structure with plug and socket, please pay attention to the golden wire of the plug and the golden needle of the socket, they must be touched together.

The connection method between the USB Power Cord and Expansion Boards is as follows:
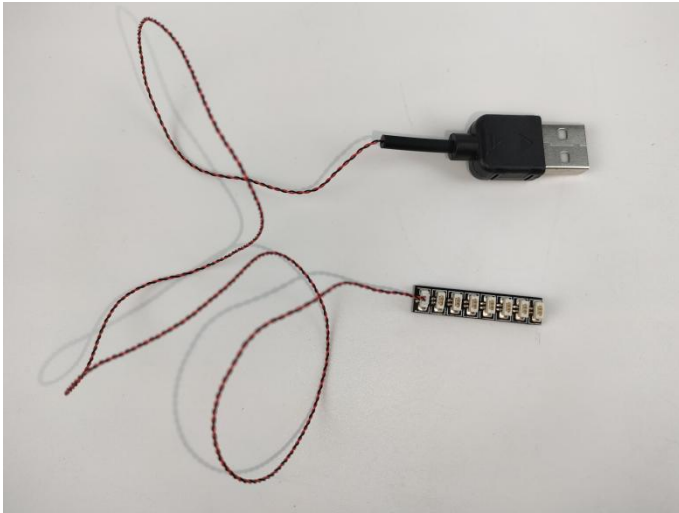
The USB Power Cord can be powered by phone chargers, power banks,etc.

USB connectors to connect devices

Power Bank

Phone Charger

USB Socket

USB Power Cable

With USB to interface
AA battery box

With USB to interface
AAA battery box
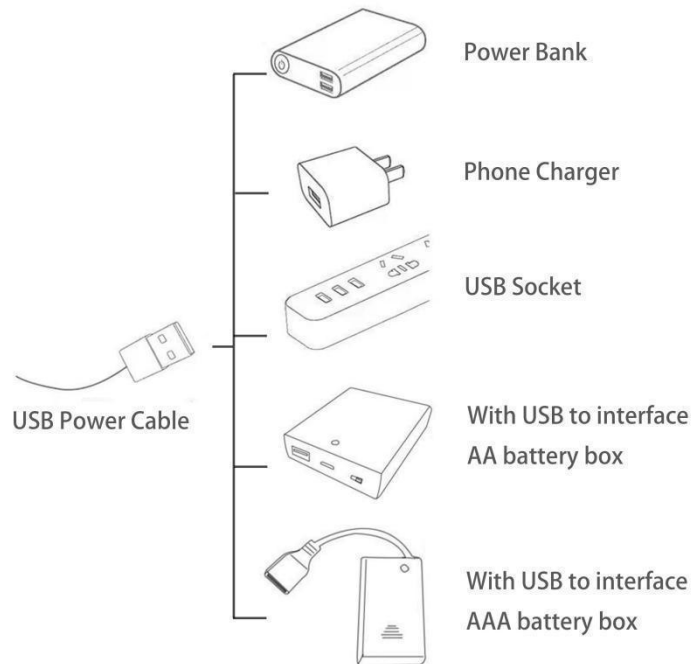
This instruction will use the power bank as power supply . The test structure is shown as follow. All lamp in this set will be tested by this structure.

When we test "A02517 Light Strip-Blue" particles,Take out the bag labelled "A02517 Light Strip-Blue".Take out one of the light and connect it to the socket. Turn on the power bank, the light will turn on normally as shown below.
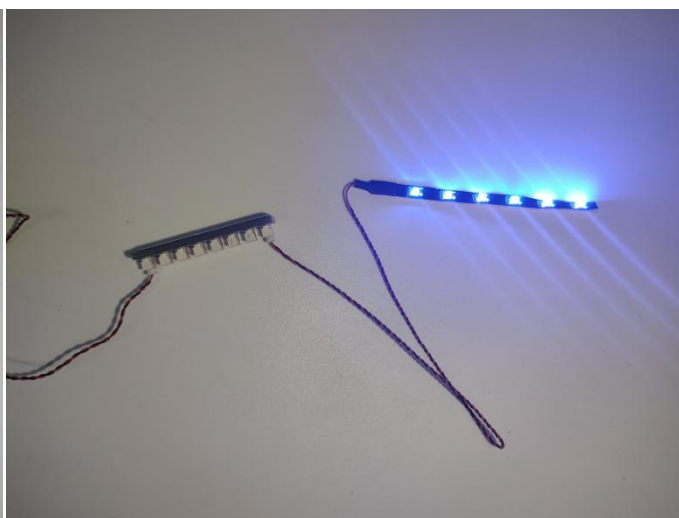
Test each lamp according to this method. It should be noted that after the test, the lamp must be returned to the corresponding bag to avoid confusion of types.

LED strip test:

Take out the bag labeled "A01104 LED Strip White". Take out the LED light bar, connect the USB power cable, turn on the mobile power supply, the light will be on normally, as shown in the figure below.

The components needs to be tested in this set is 16* Light-15CM Warm White,8* Light-30CM Warm White,2*High-Brightness light 15CM-Warm White,2* LED Strip Red,4* LED Strip Blue,1* Flash Light-15CM Red,1* Light Strip-Blue-COB,1* Light Strip-Cyan-COB,1* High-Brightness Light 15CM-Red,2* High-Brightness Light 15CM-Blue.

Please contact us immediately if any components don't work.

Section C： laying out components following the instruction.

1

2

3

4

5

6

7

8

A02517
Light Strip-Blue

9

10

11

A01024
High-Brightness light
15CM-Warm White

Components

12

13

14

15

16

17

18

19

20

A1035
High-Brightness Light
15CM-Blue

21

22

23

24

25

A012
Expansion Board

A01503
Connecting Cable 30CM

26

27

28

29

30

A01001
Light-15CM
Warm White

31

32
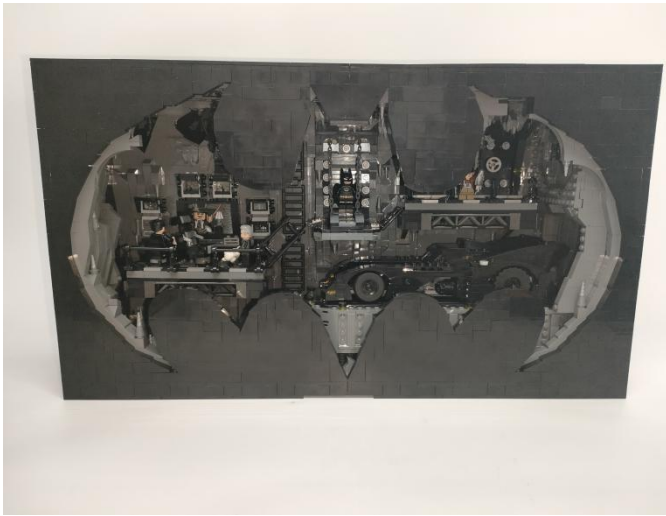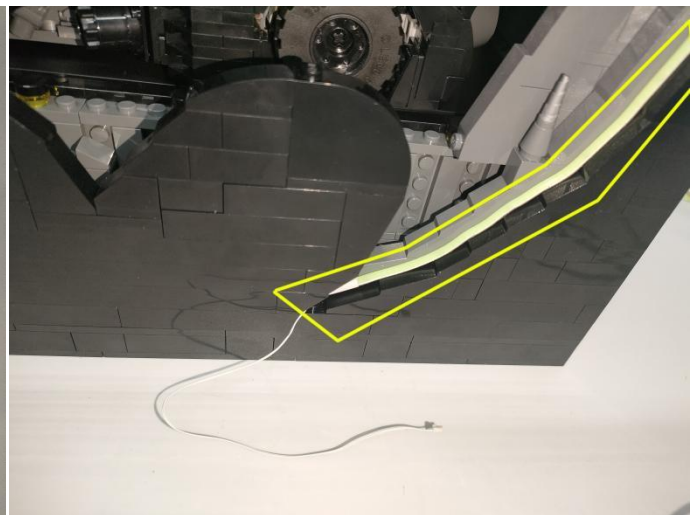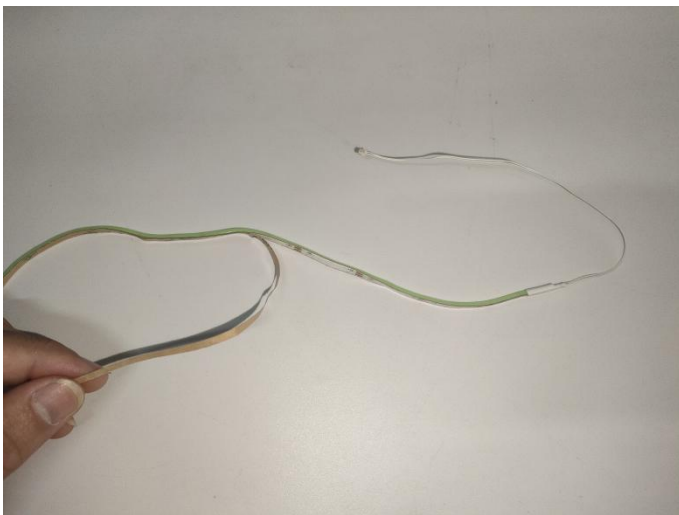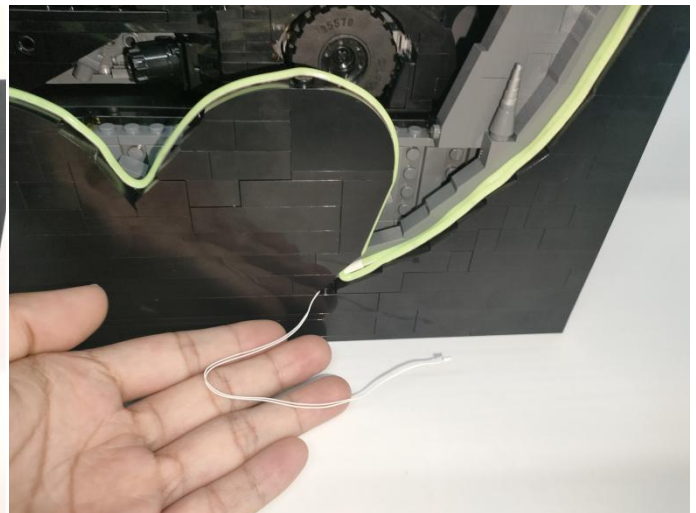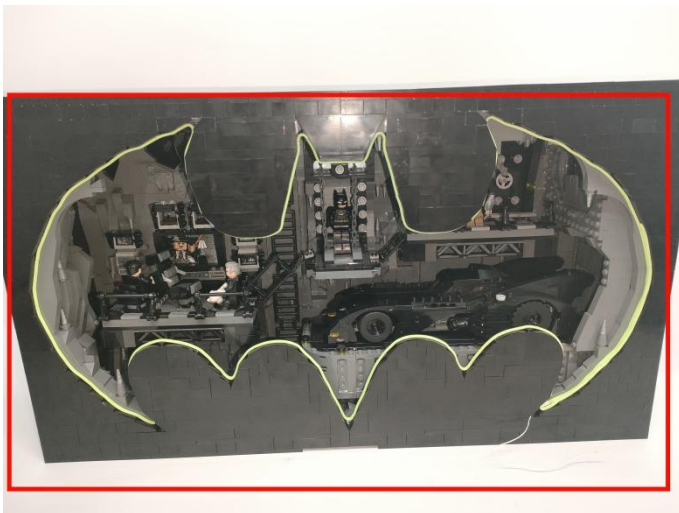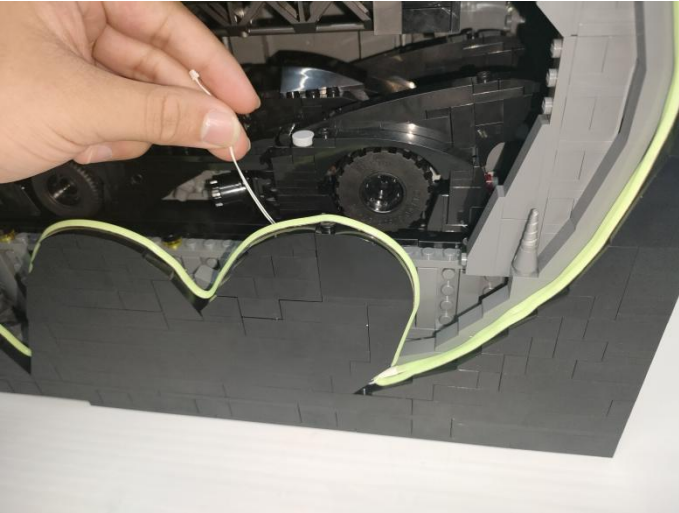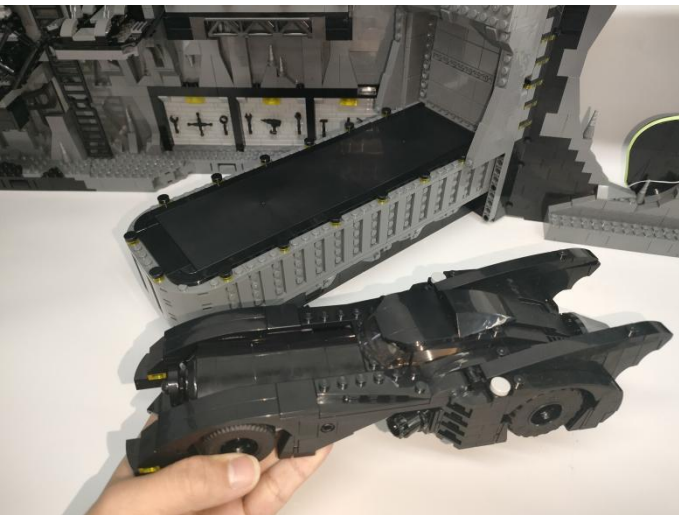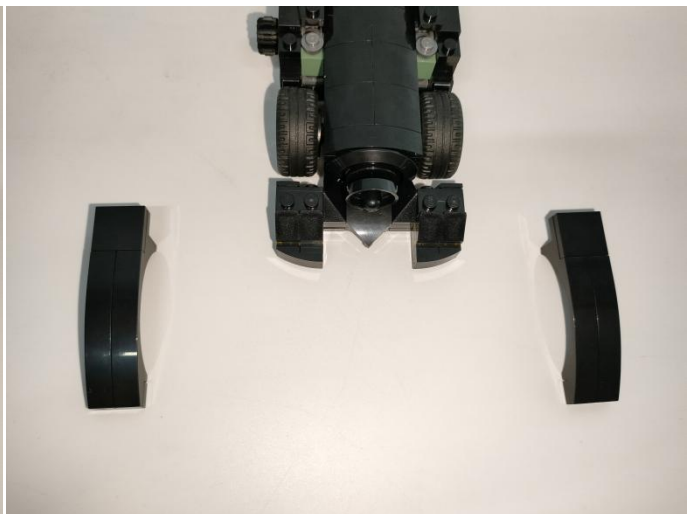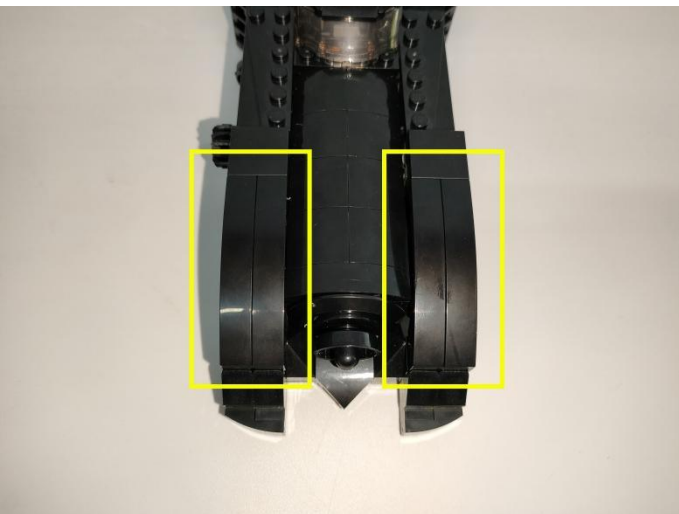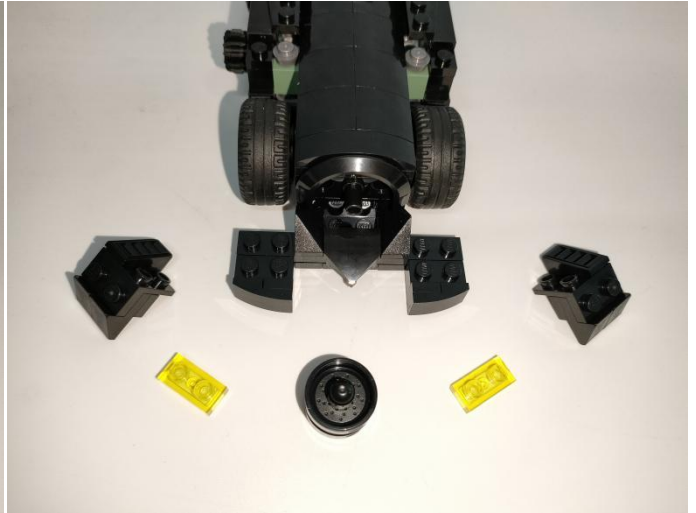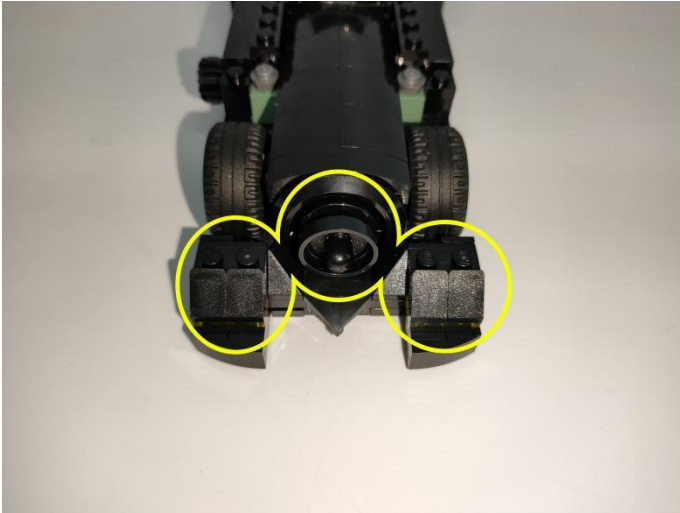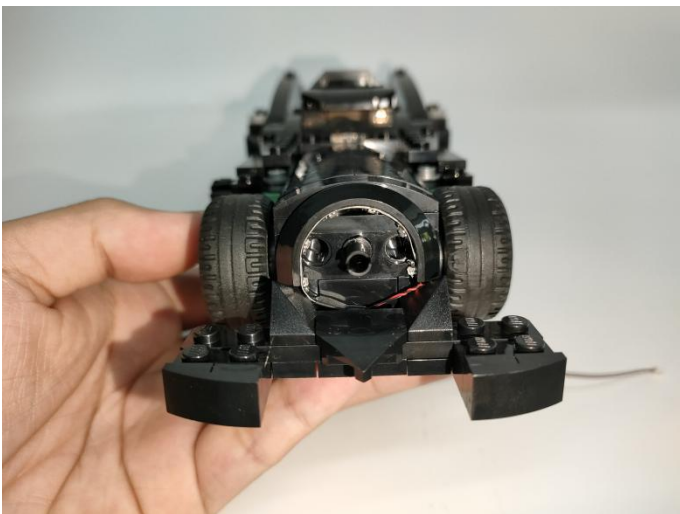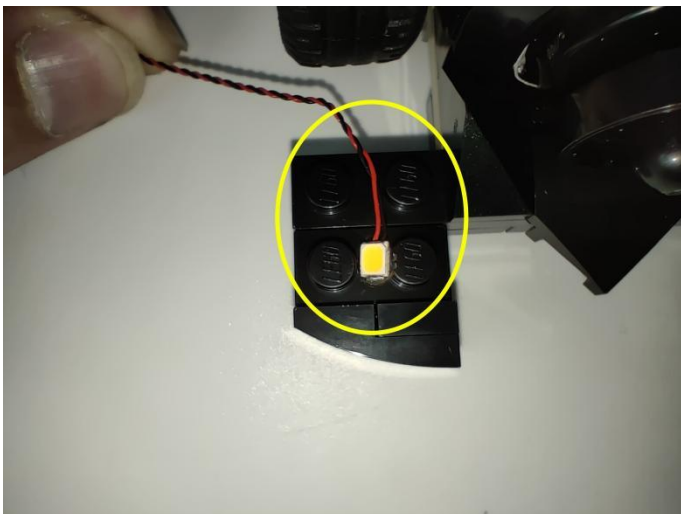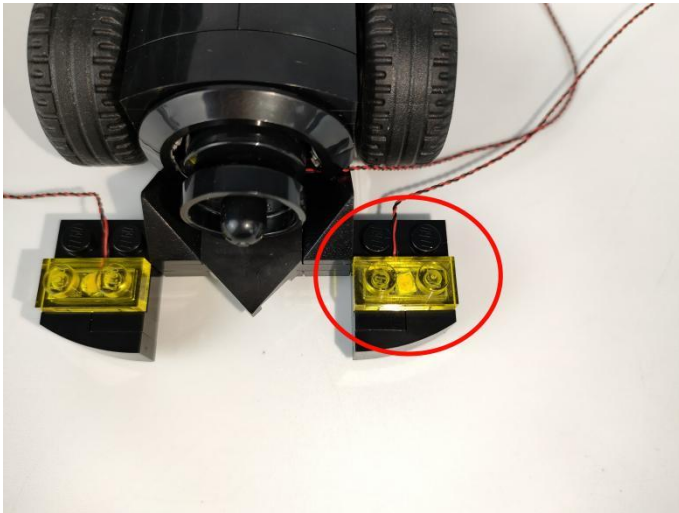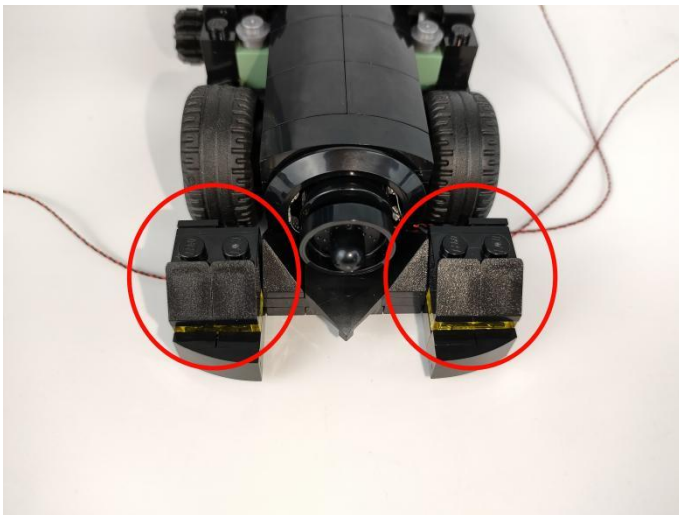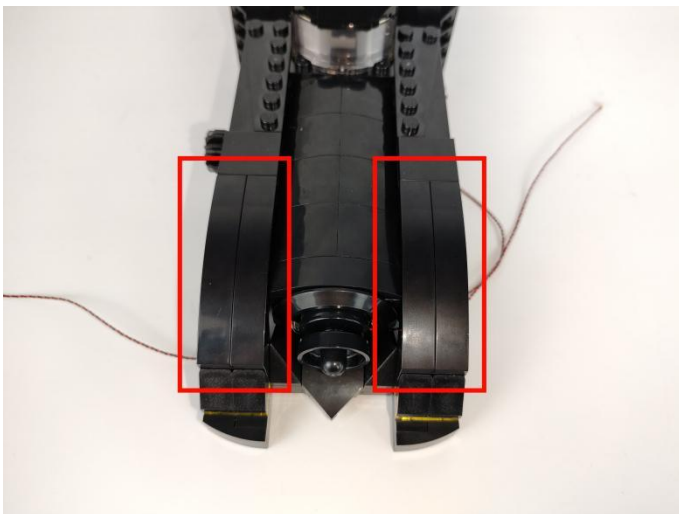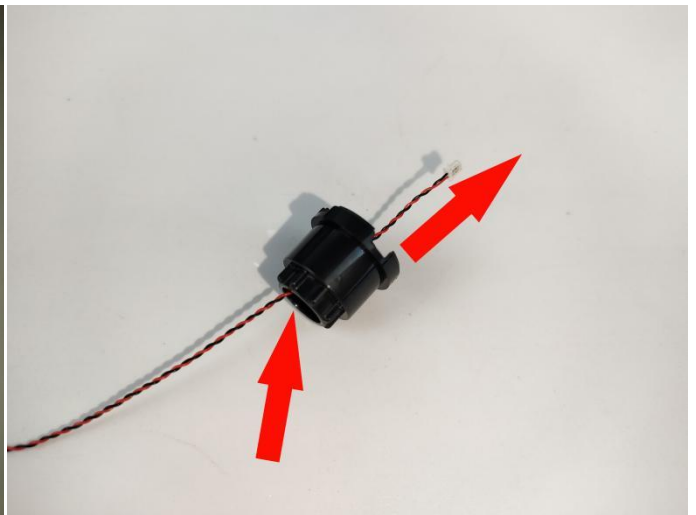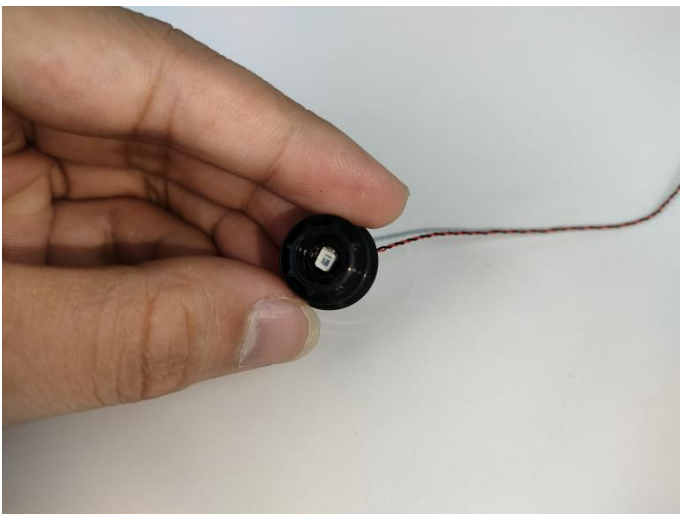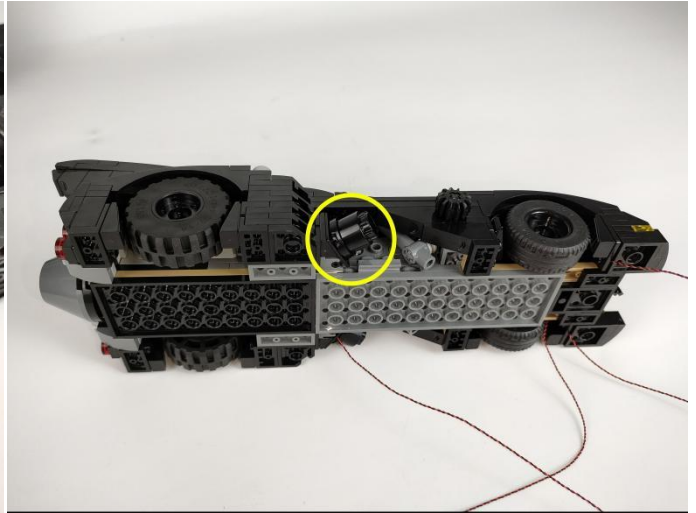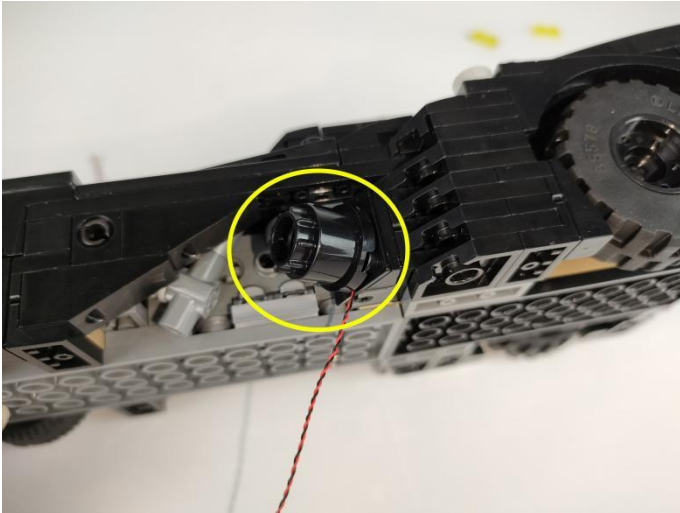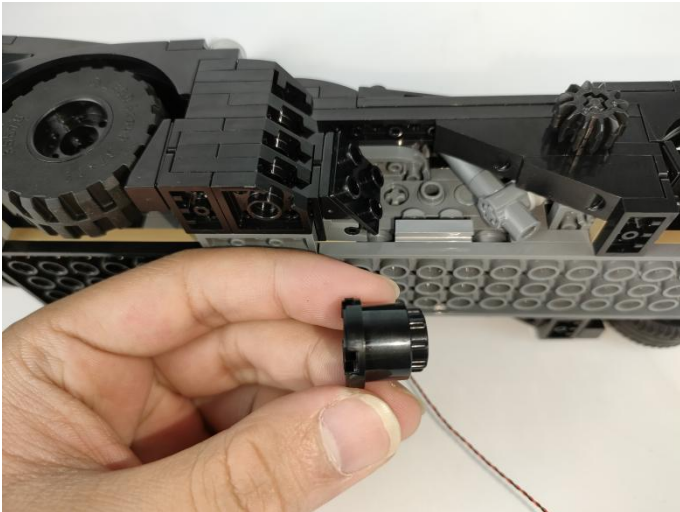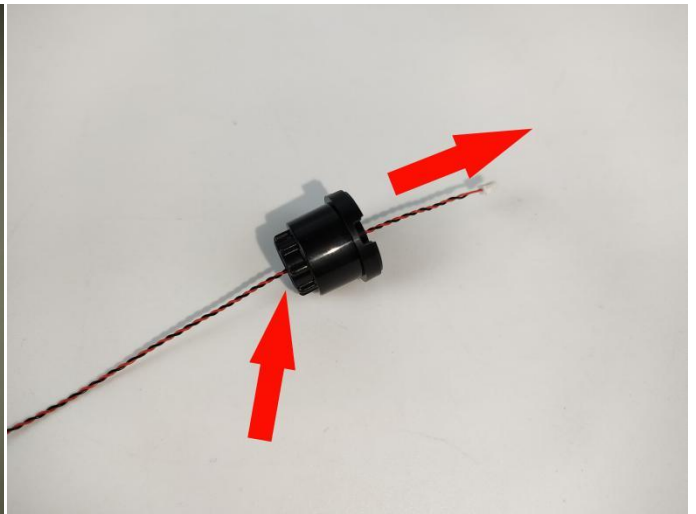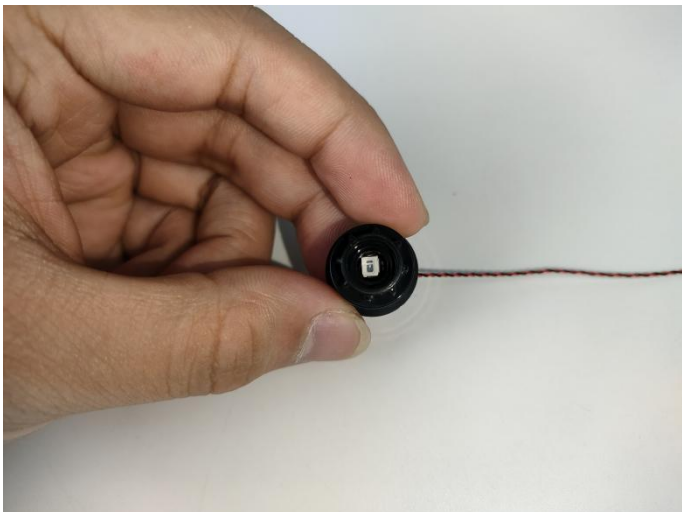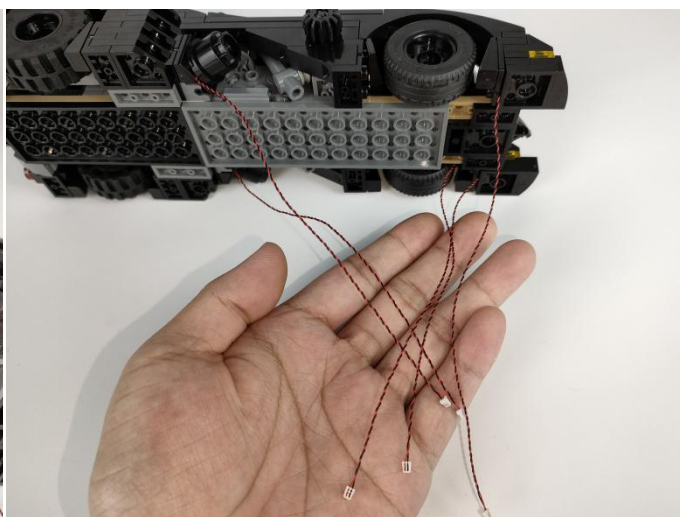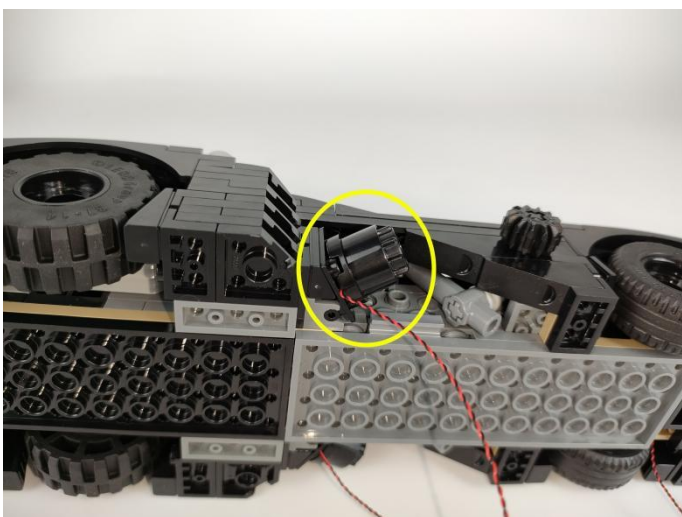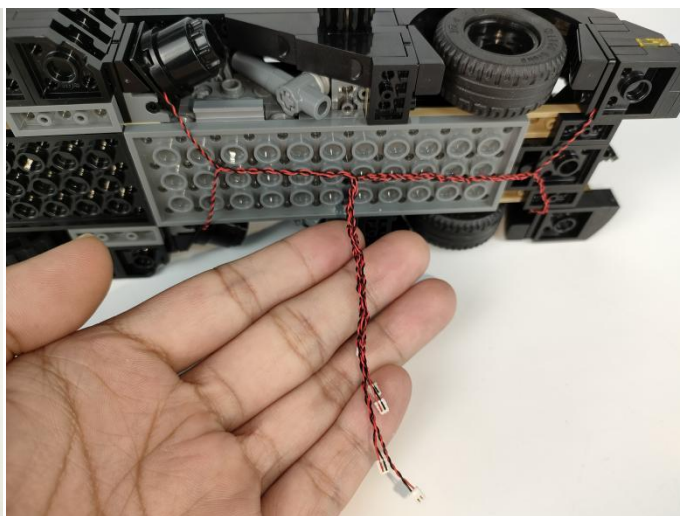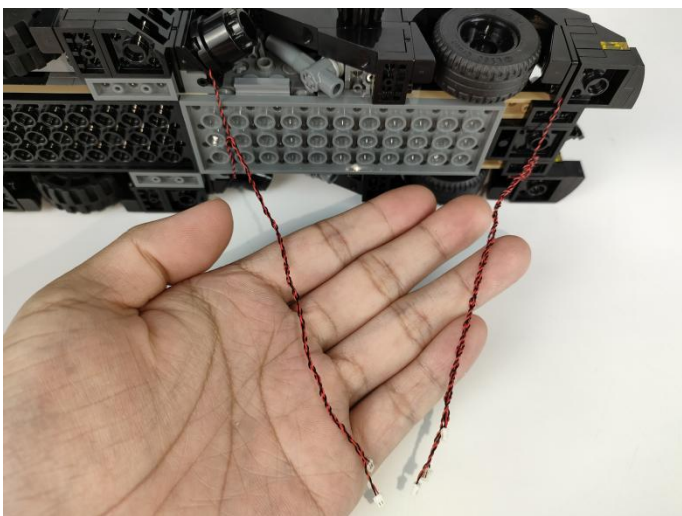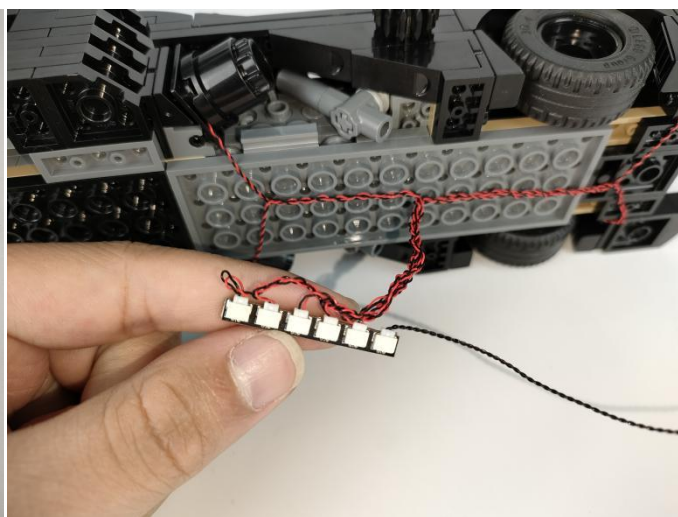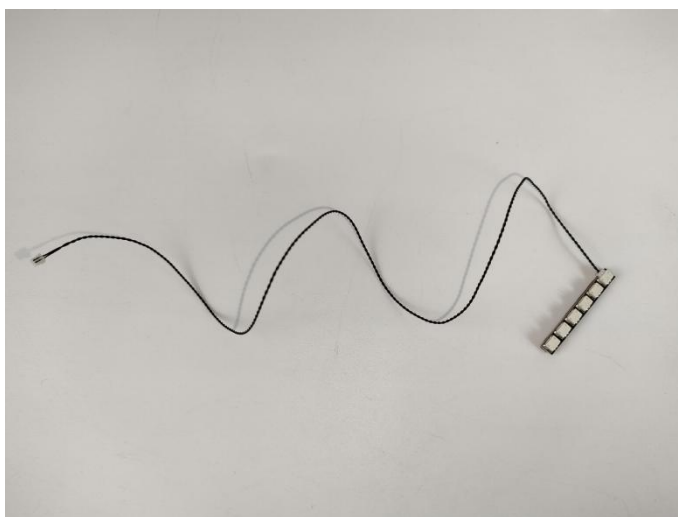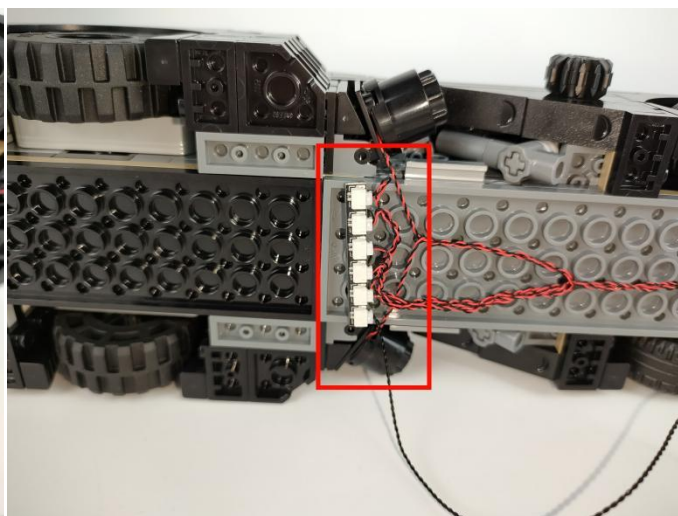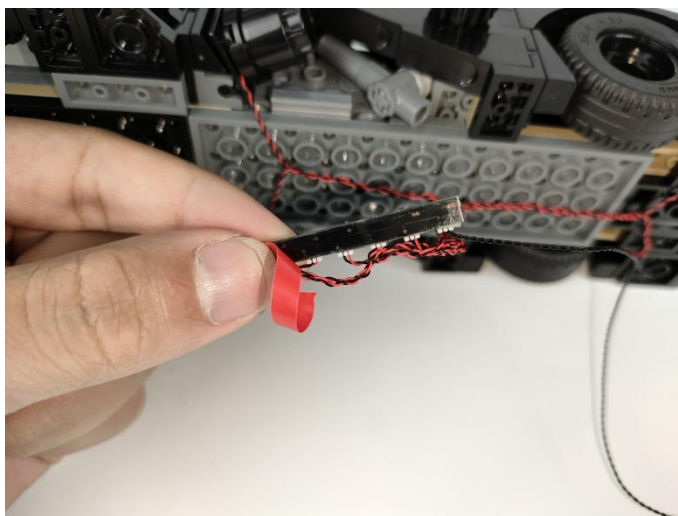
A01011
Light-30CM
Warm White
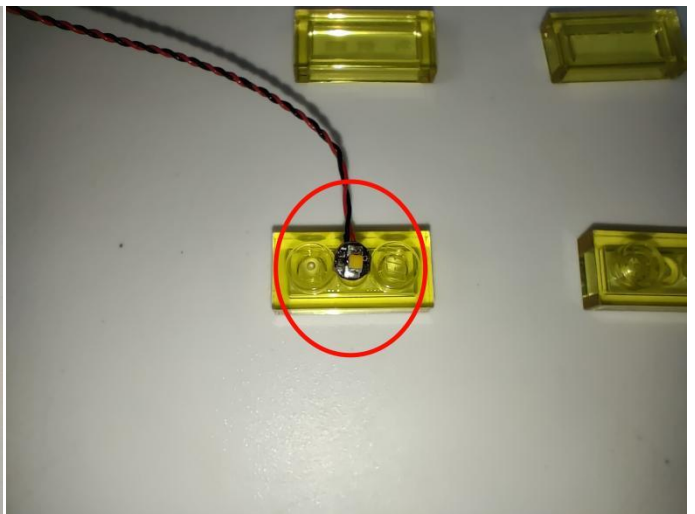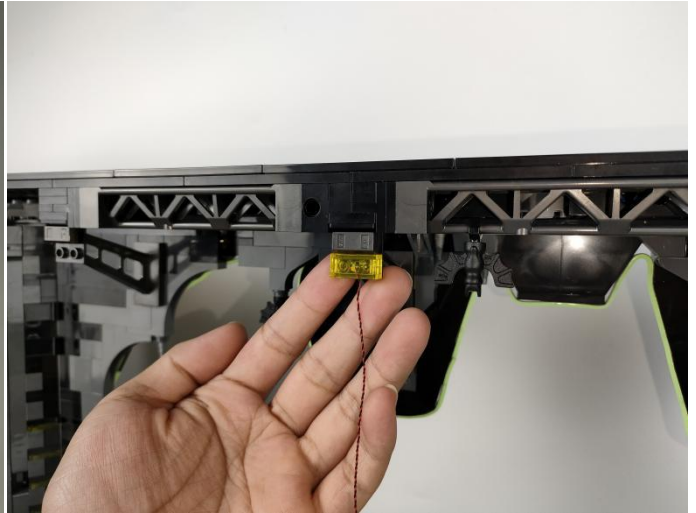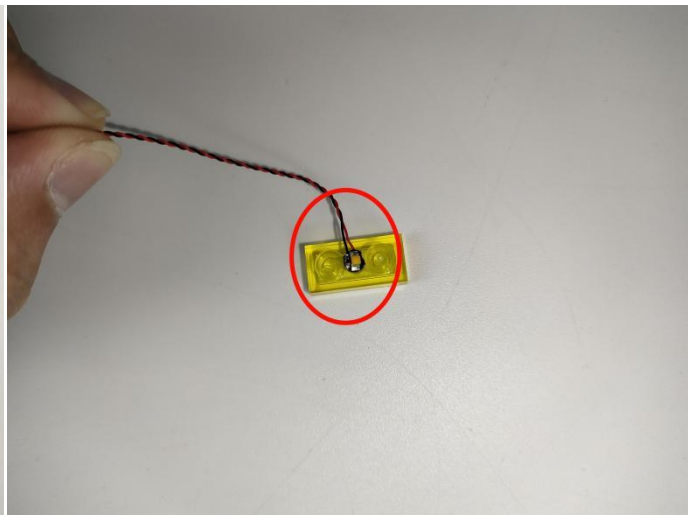
33
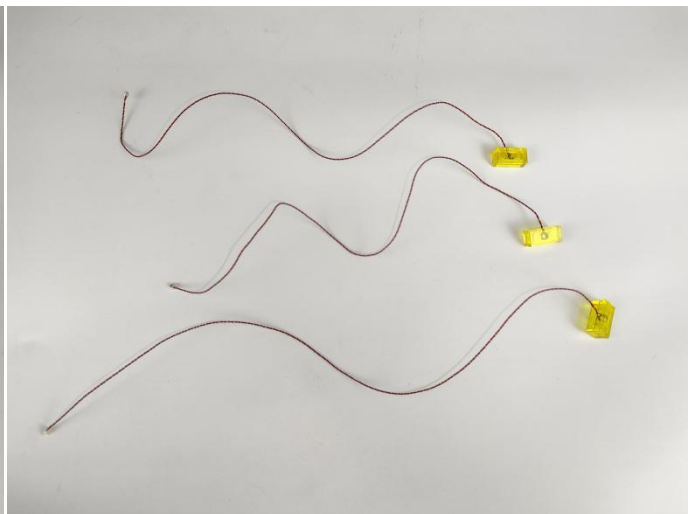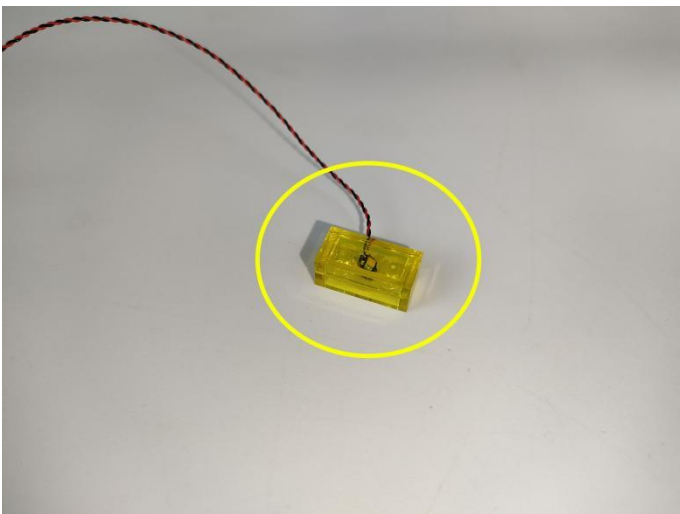
34
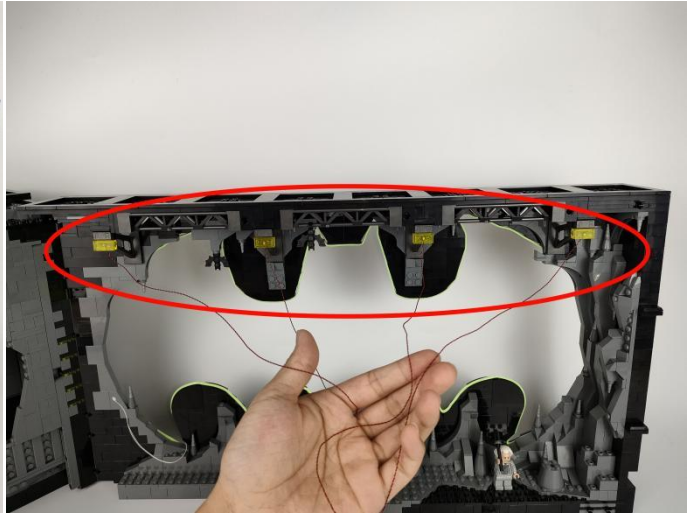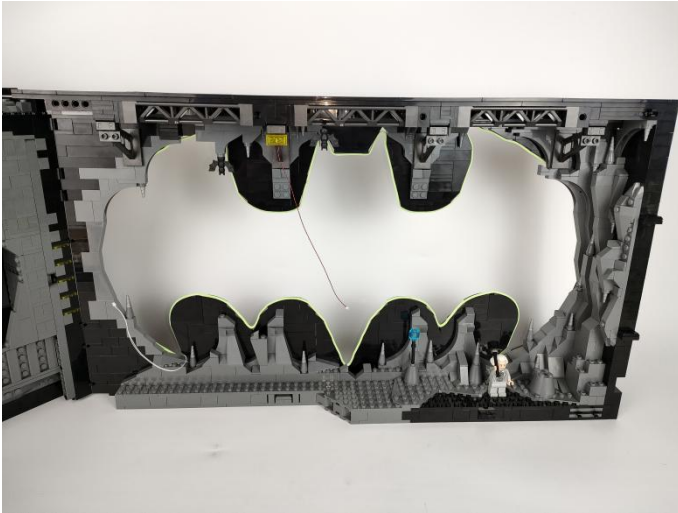
35

36

37

38

39

40

41

42

A012
Expansion Board
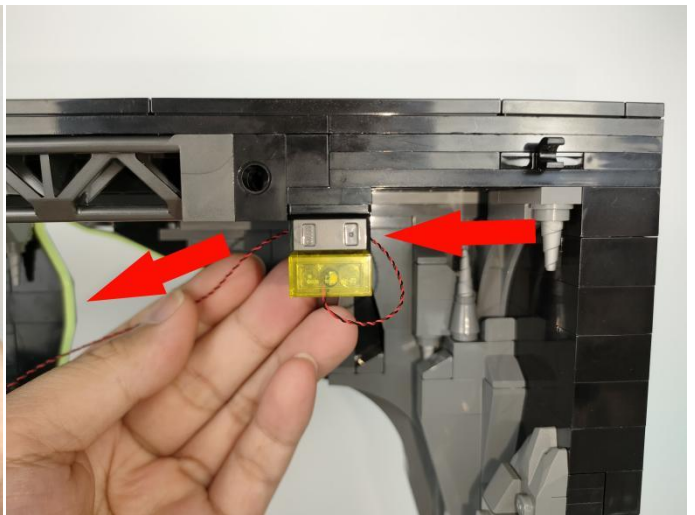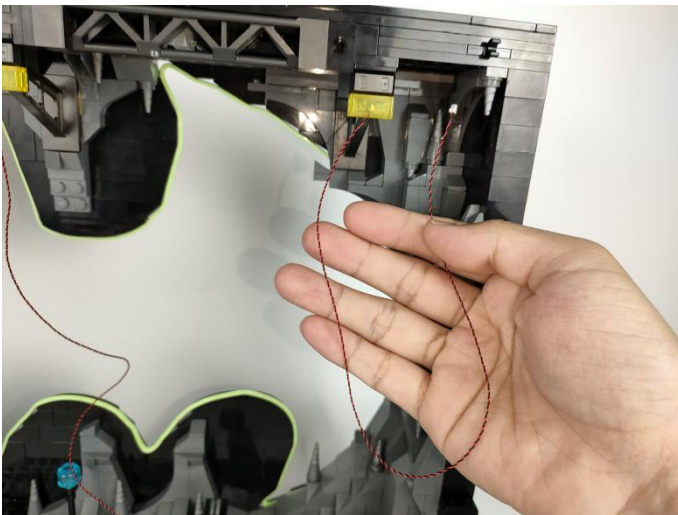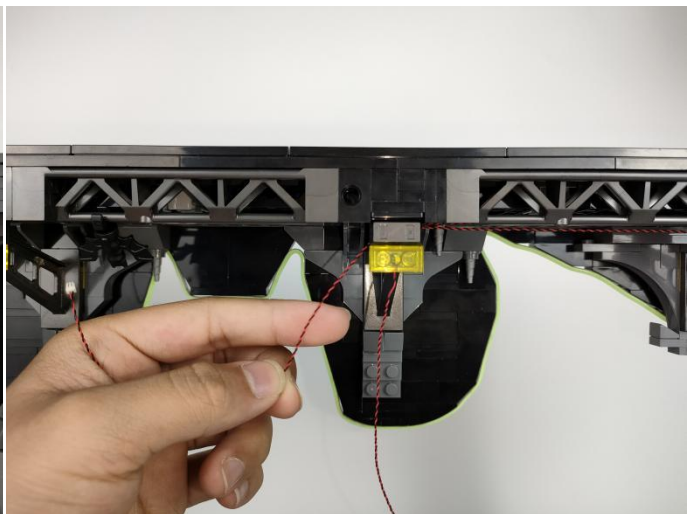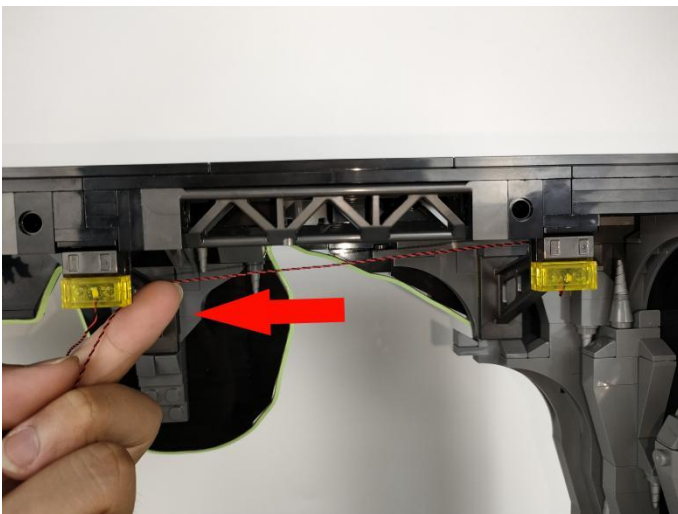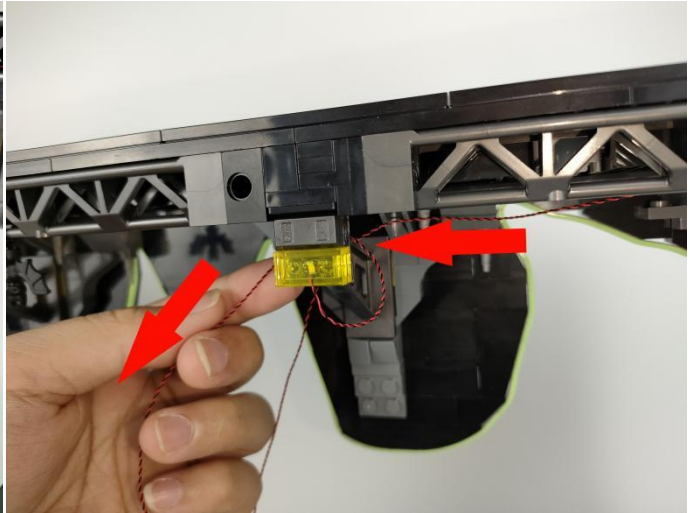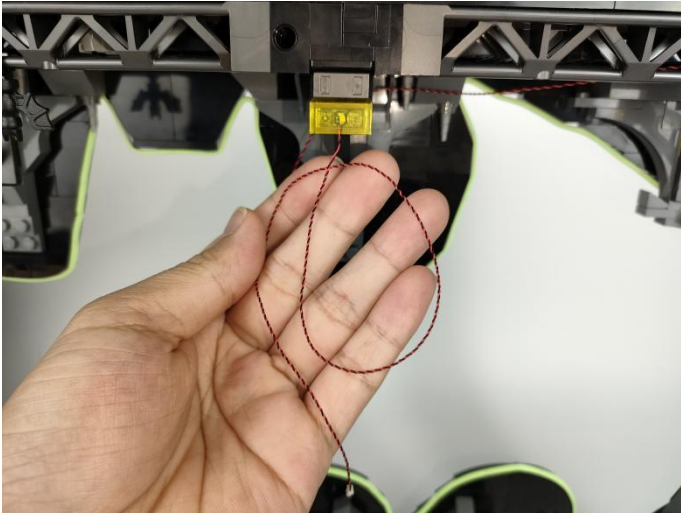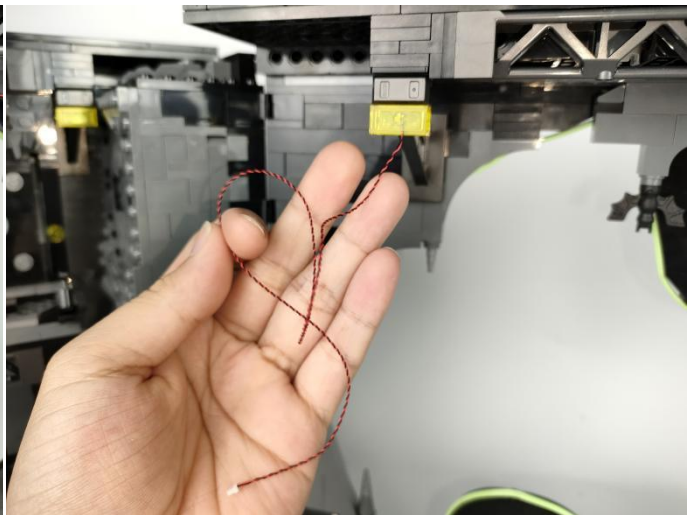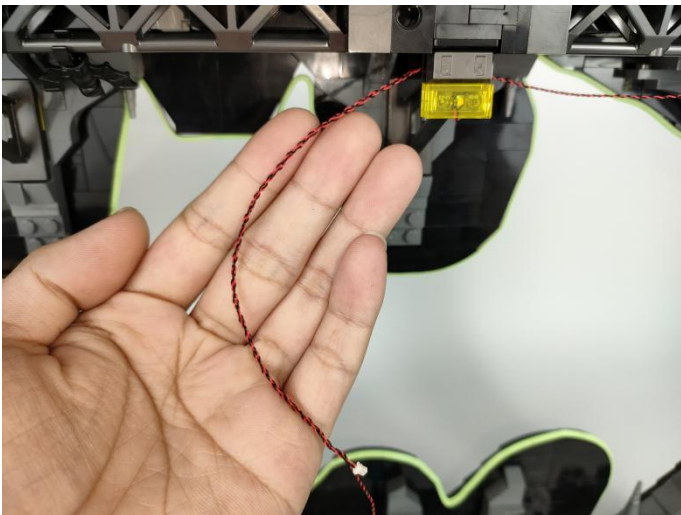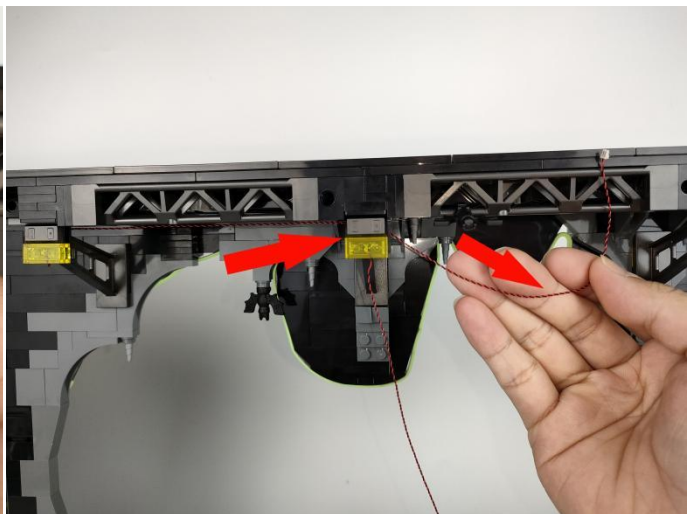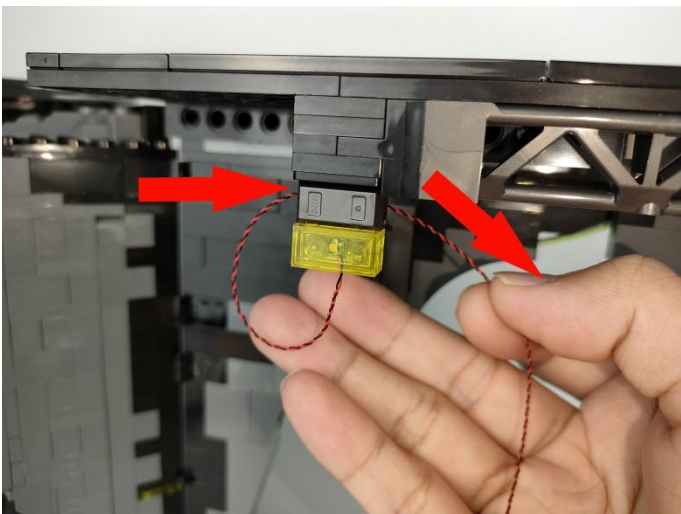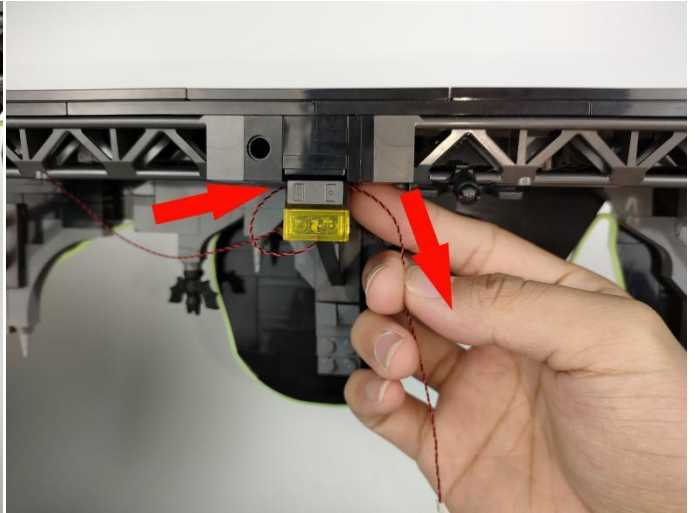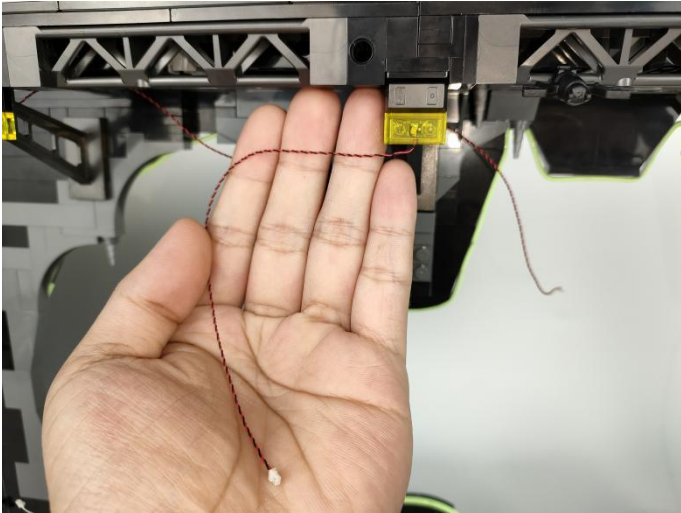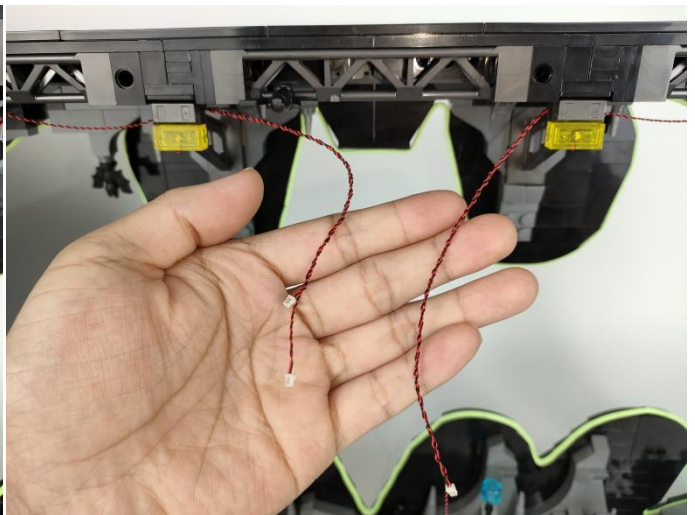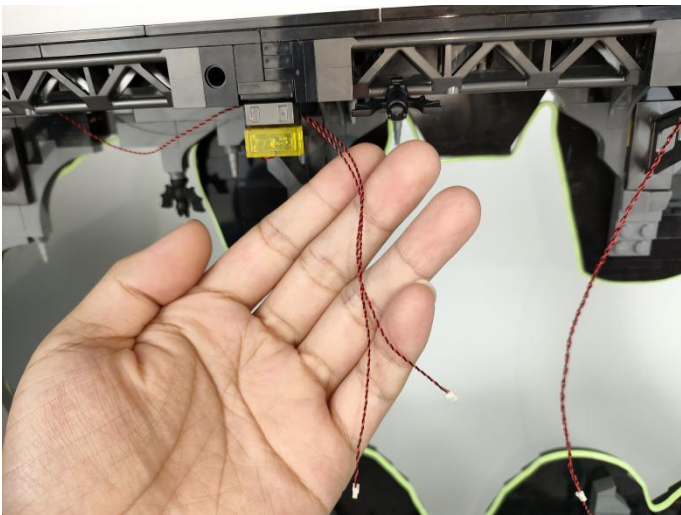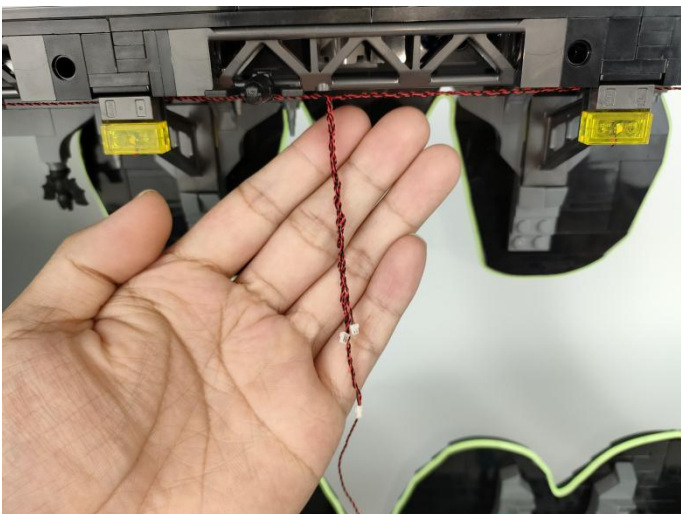
43
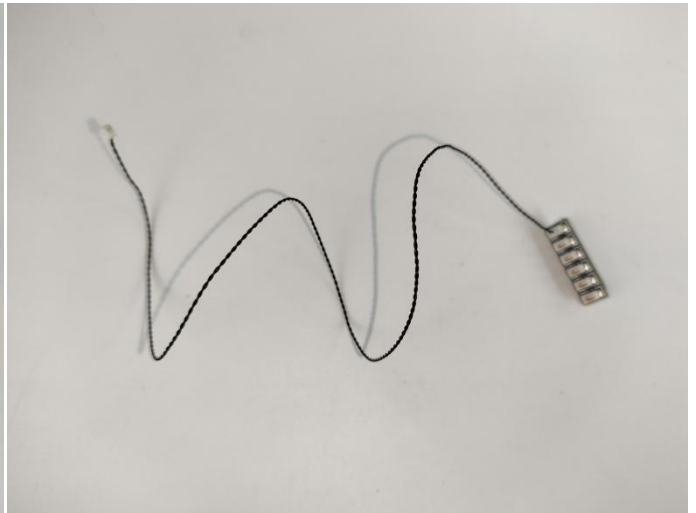
44
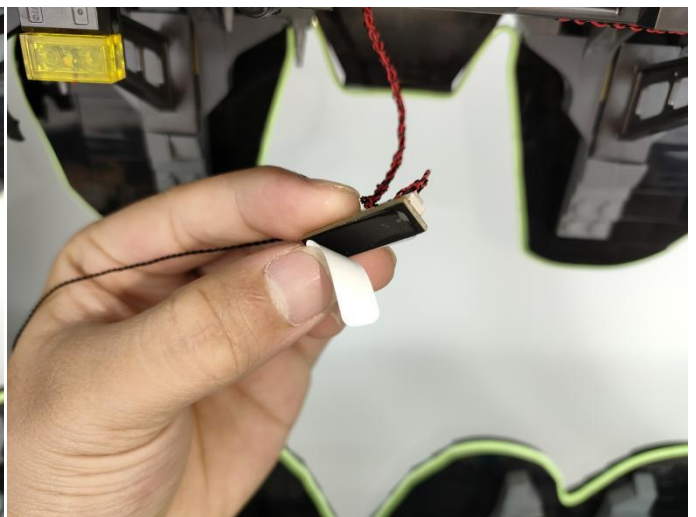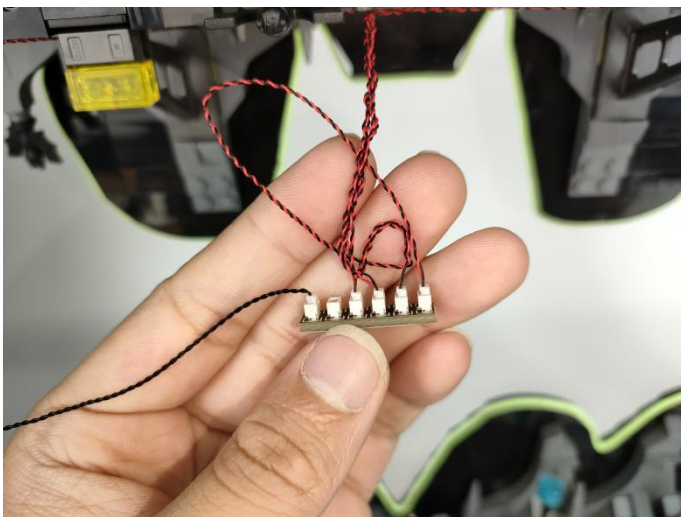
45
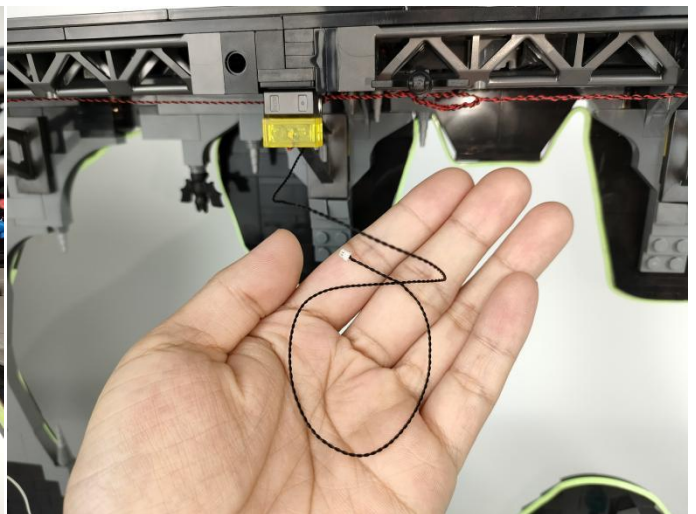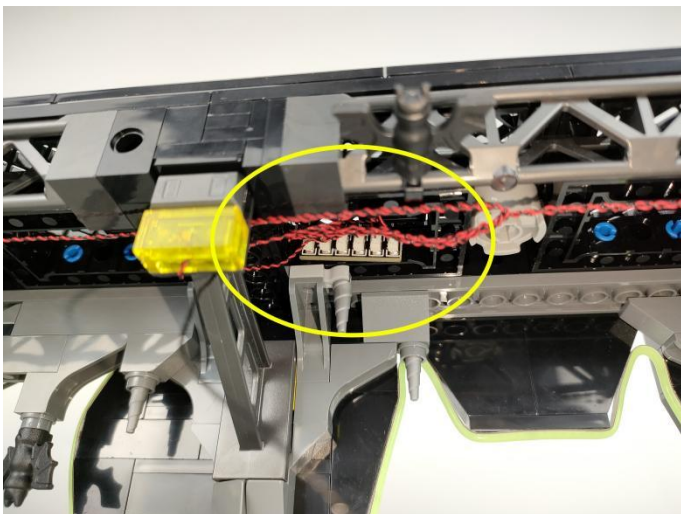
46
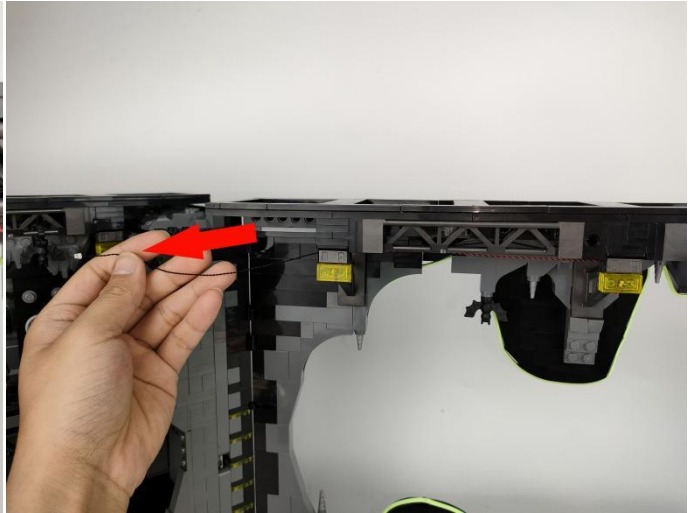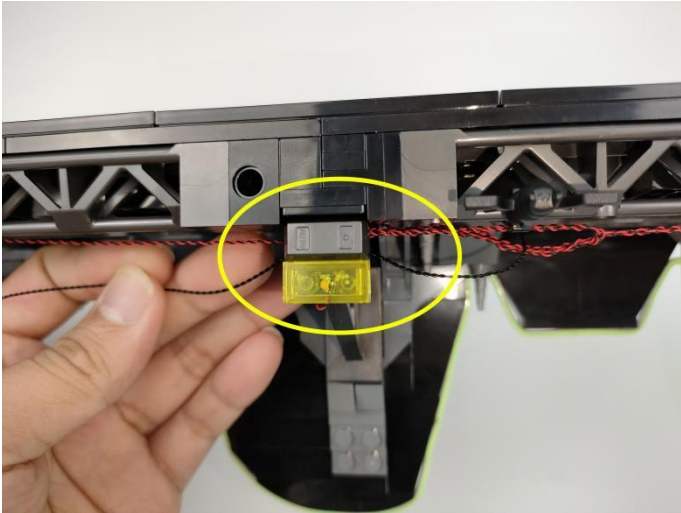
47
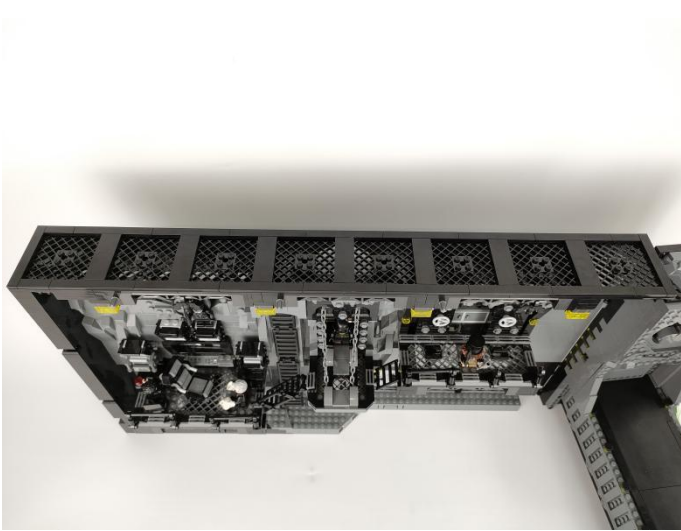
48

49
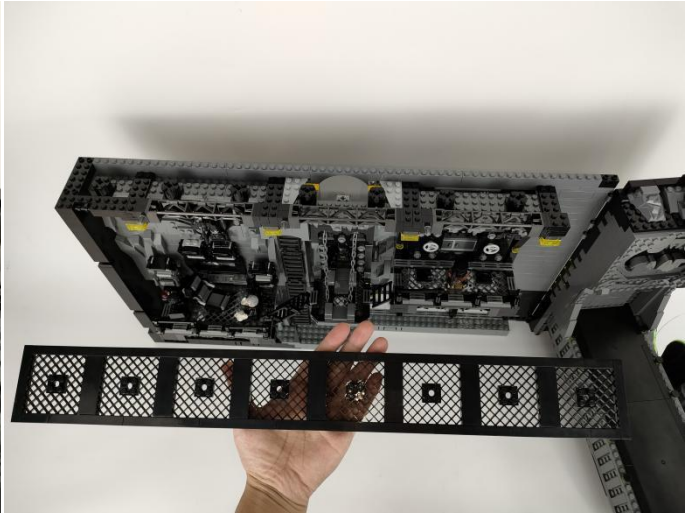
50
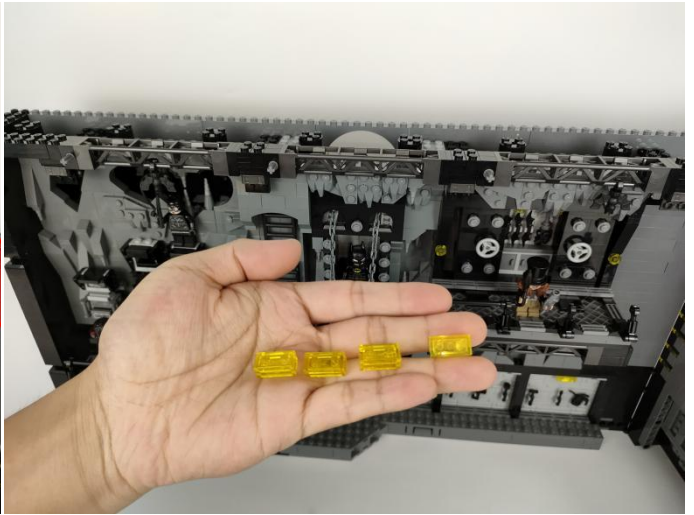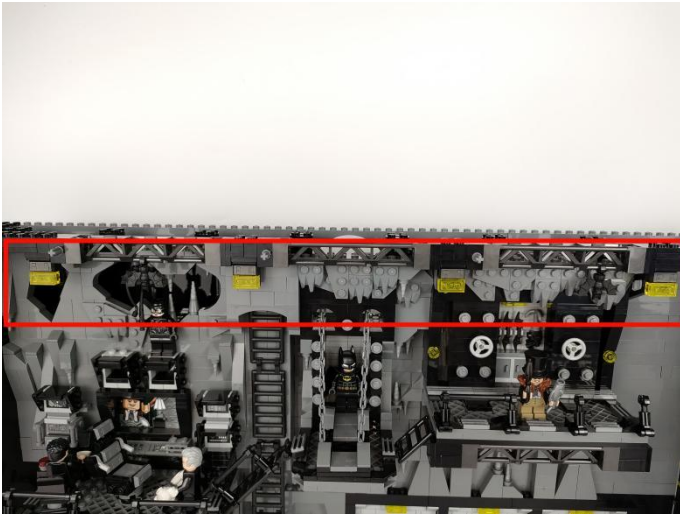
51

52
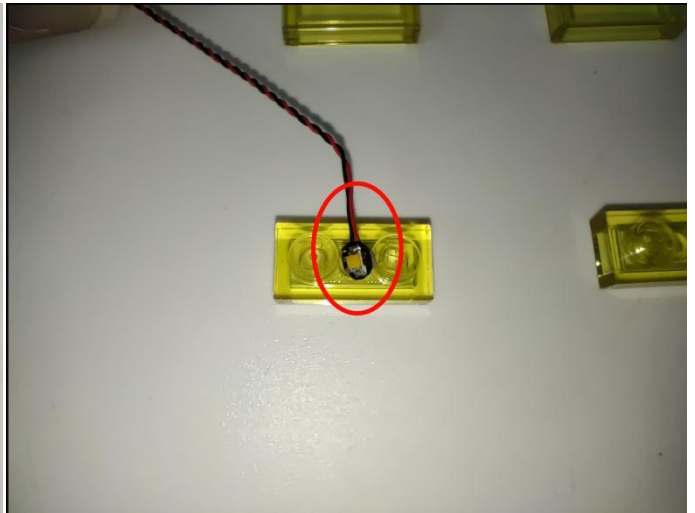
53

54

55

56

57

58

59

60

61

62

63

A012
Expansion Board

A01504
Connecting
Cable 50CM
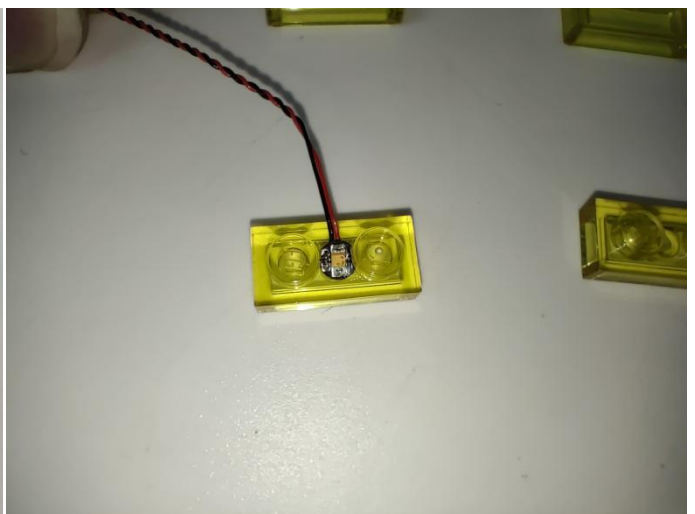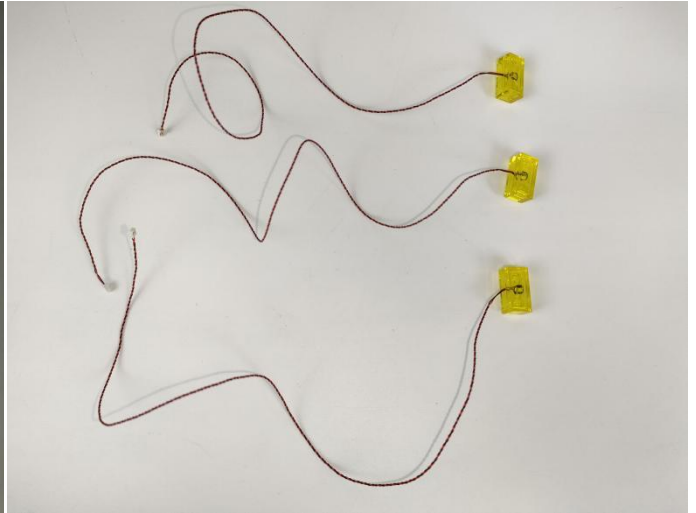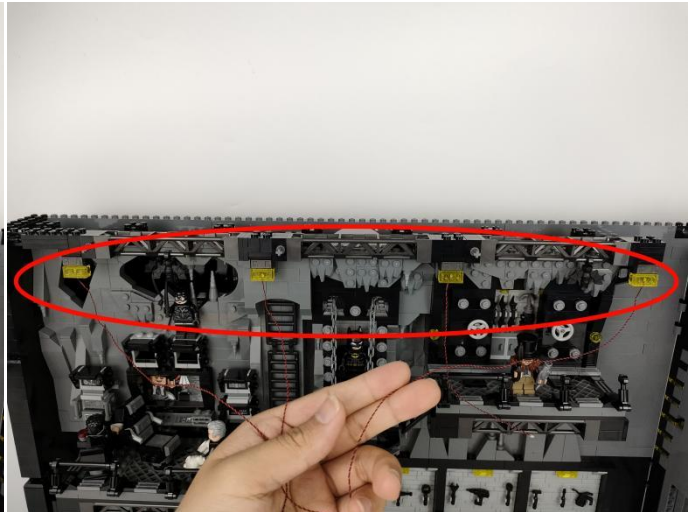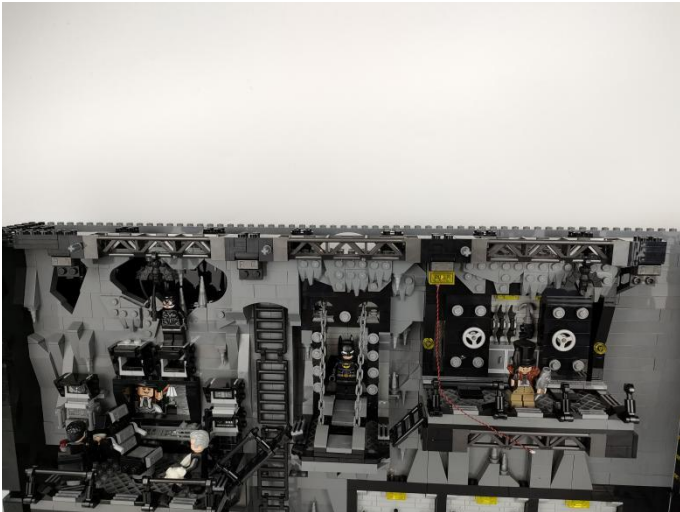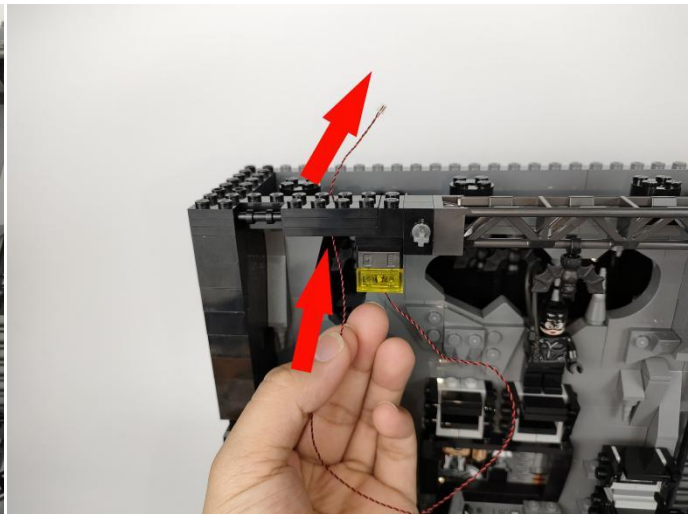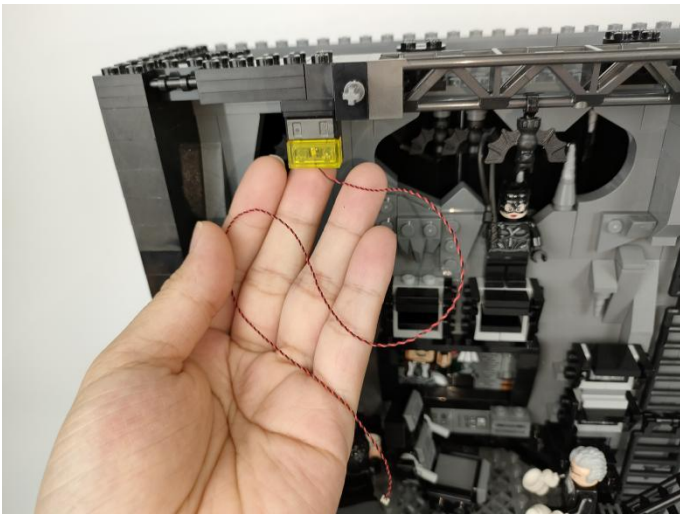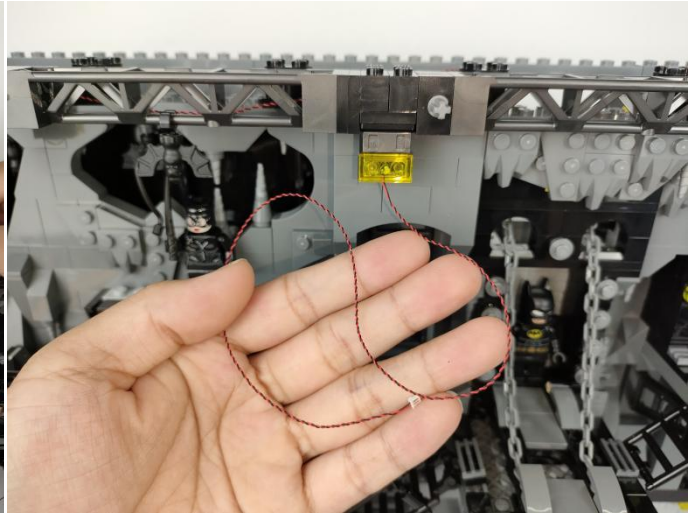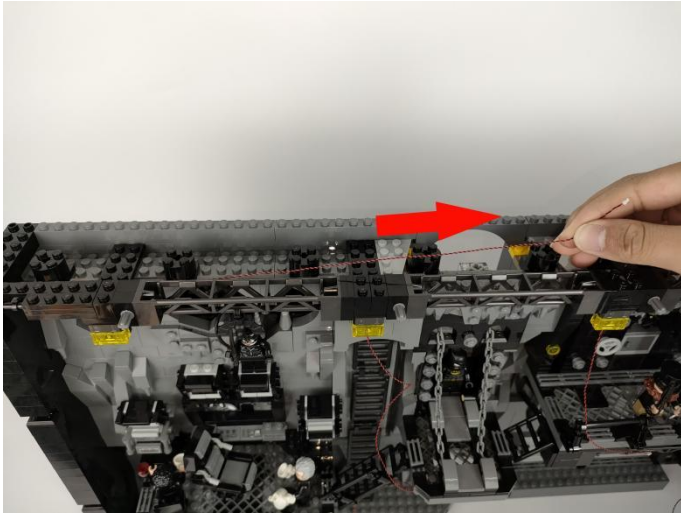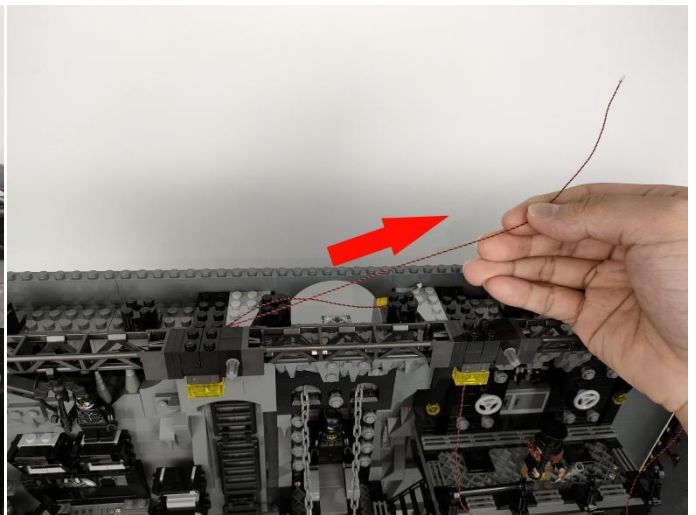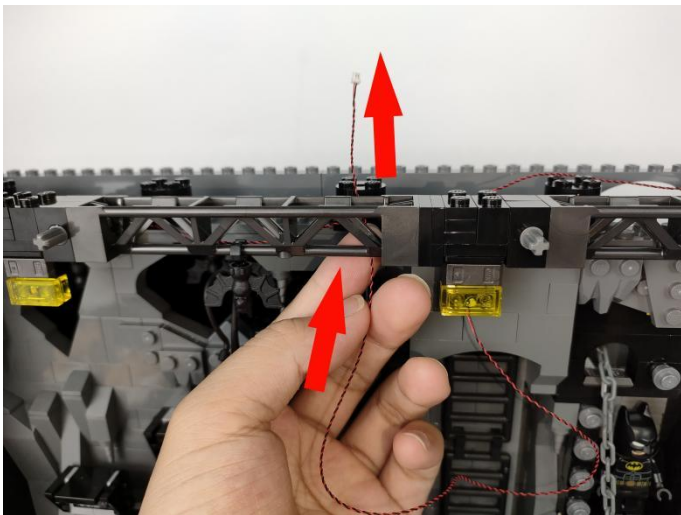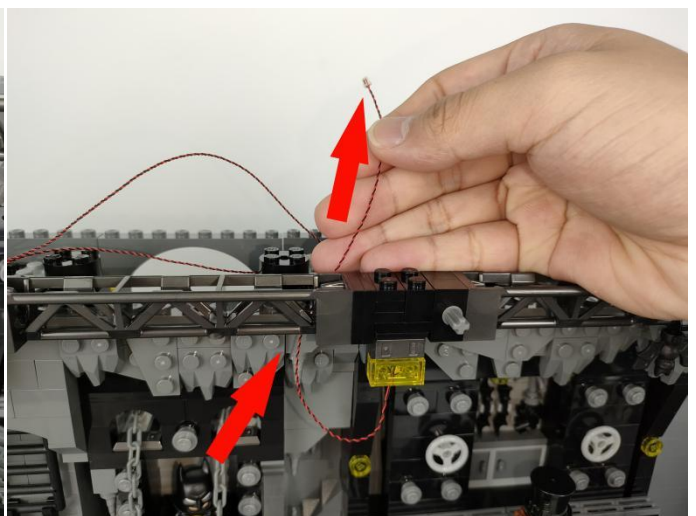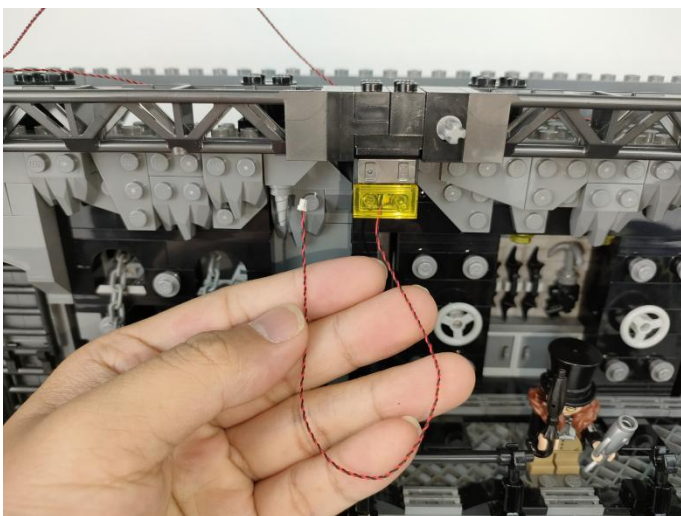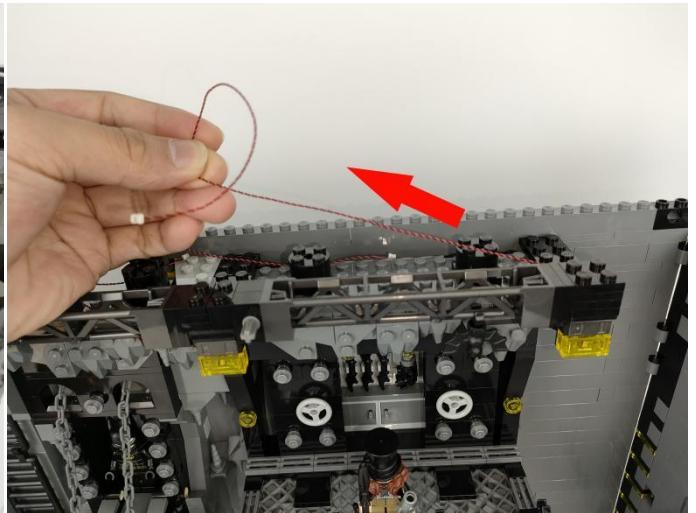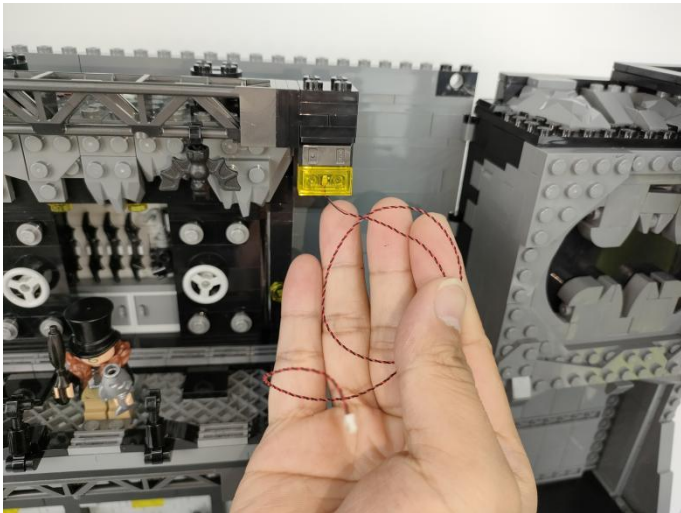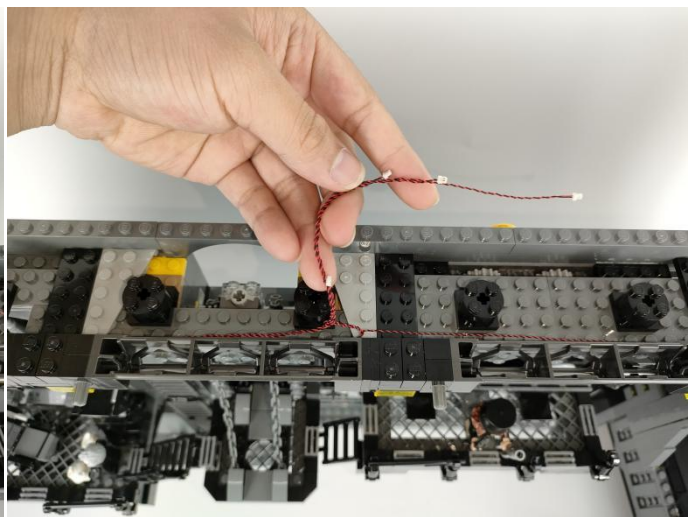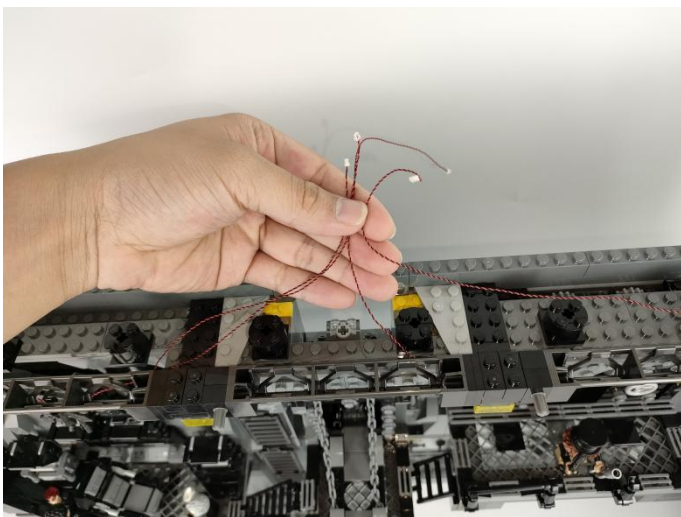
64
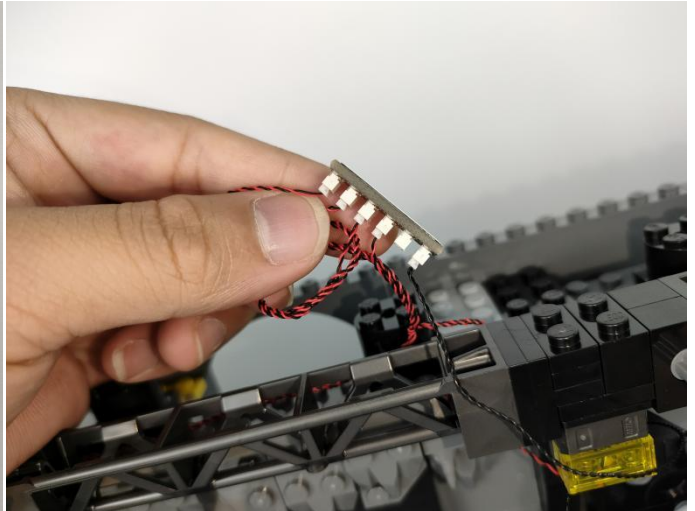
65
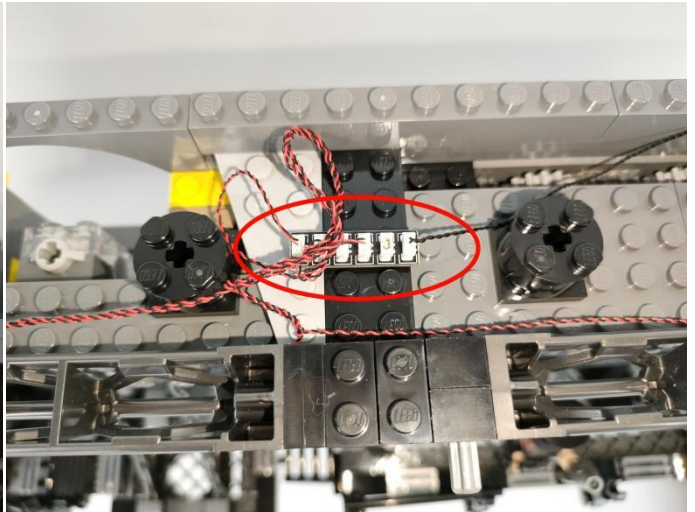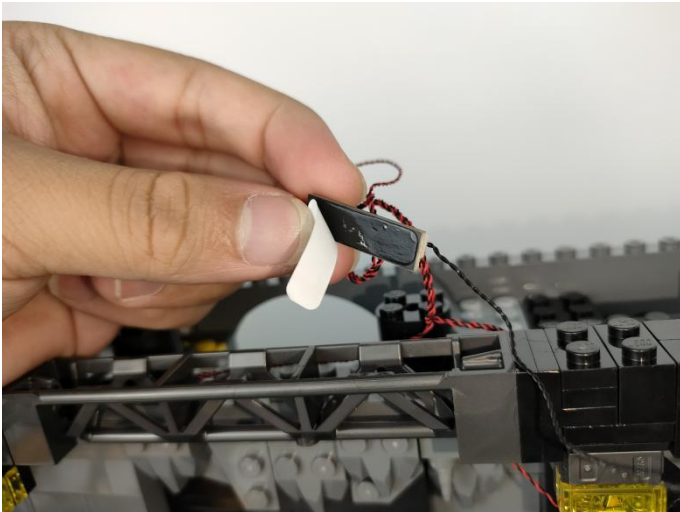
66

67

68

69

70

71

72

73

74
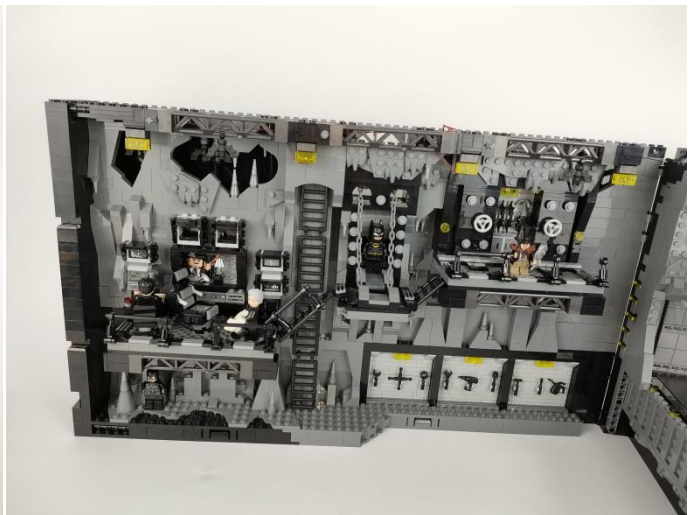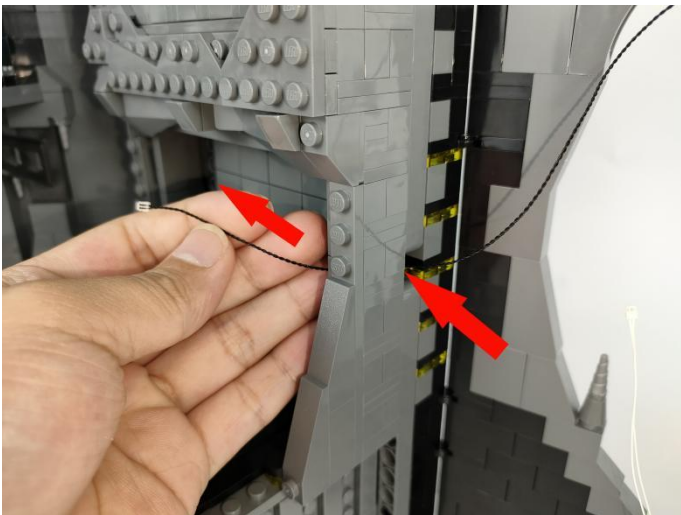
75
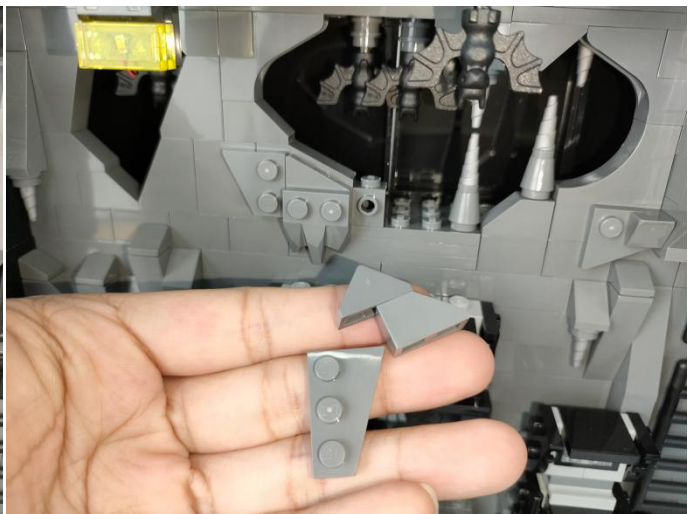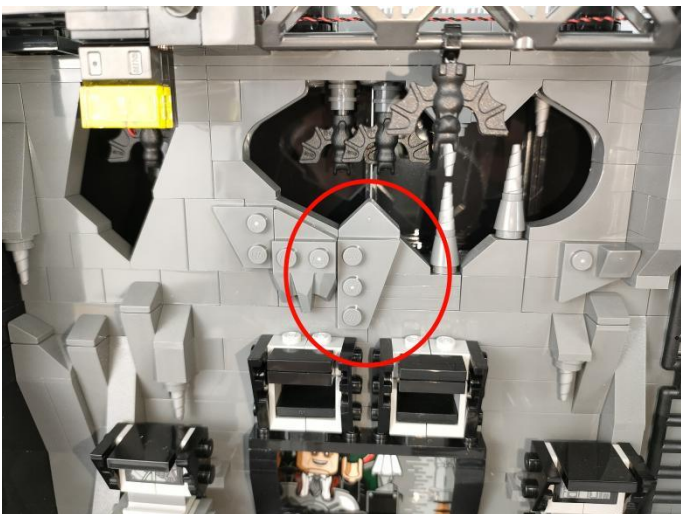
76
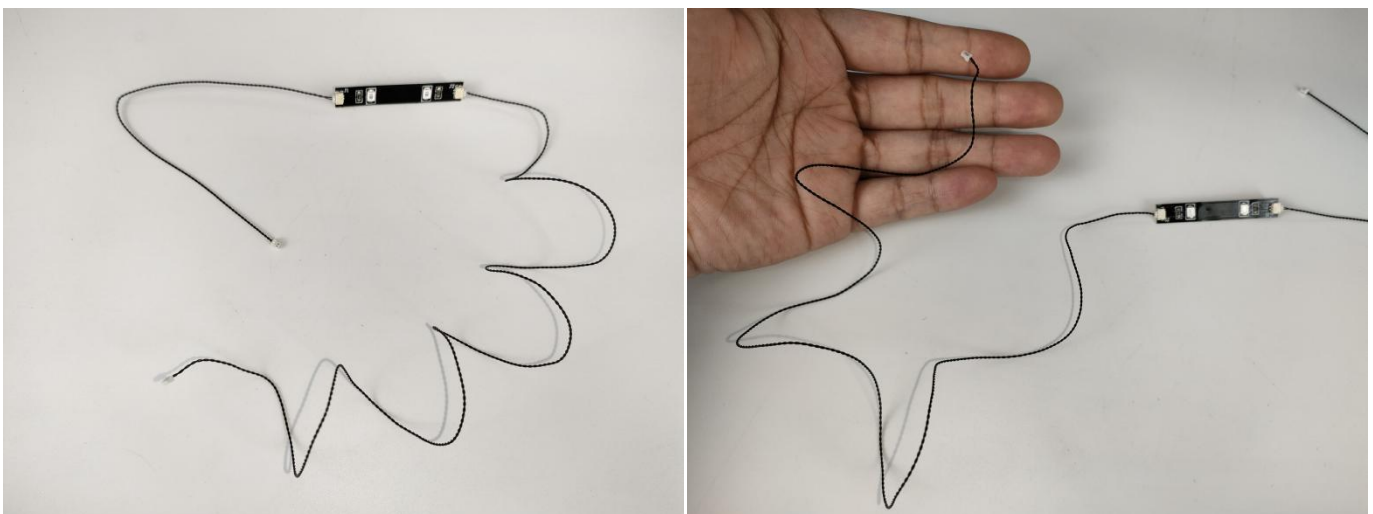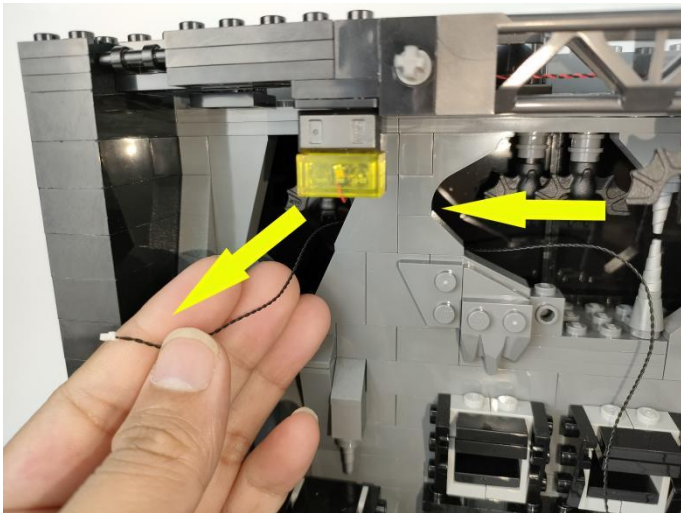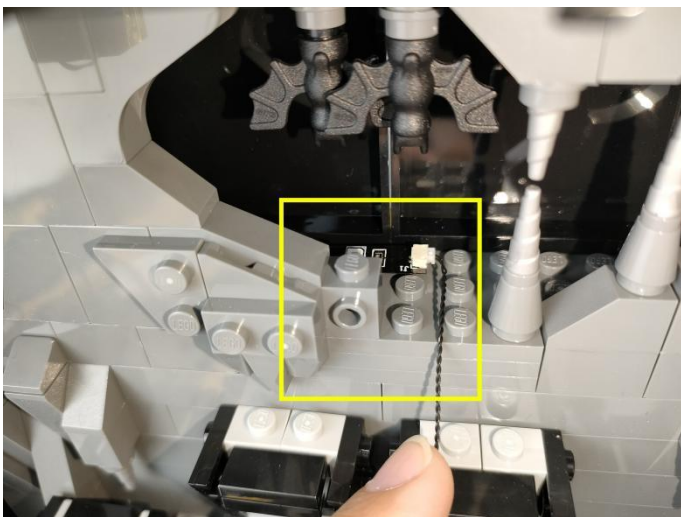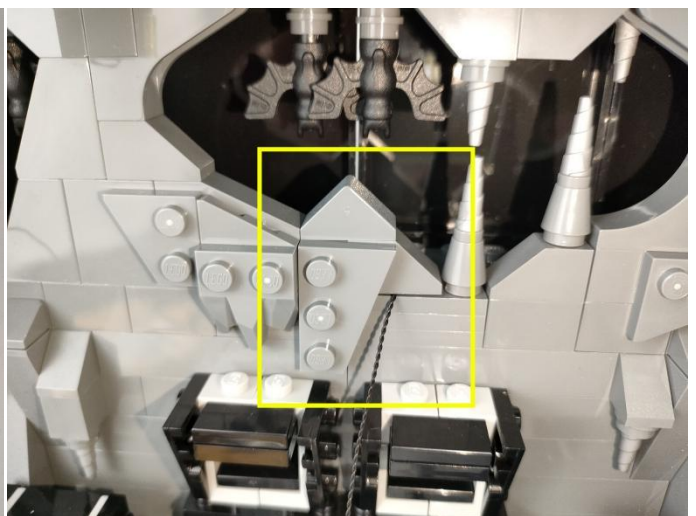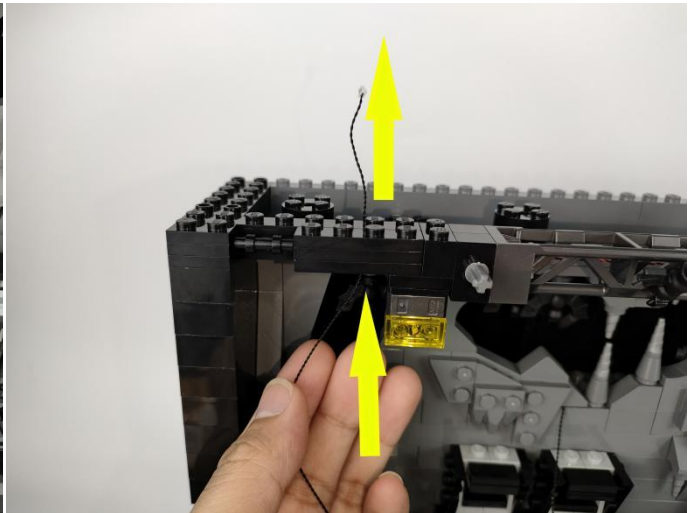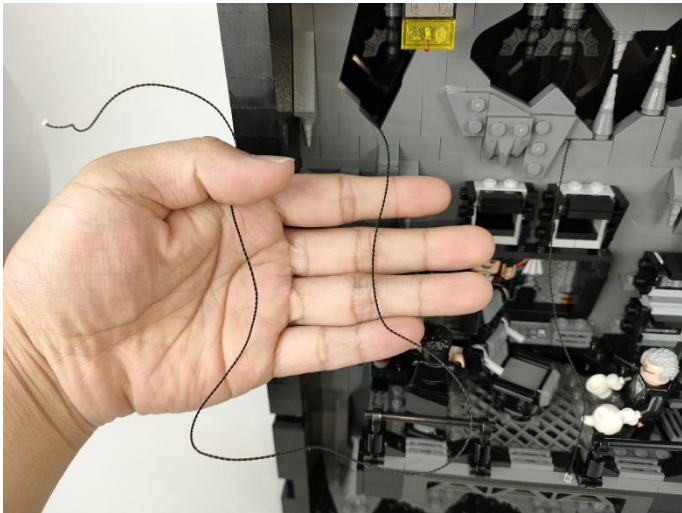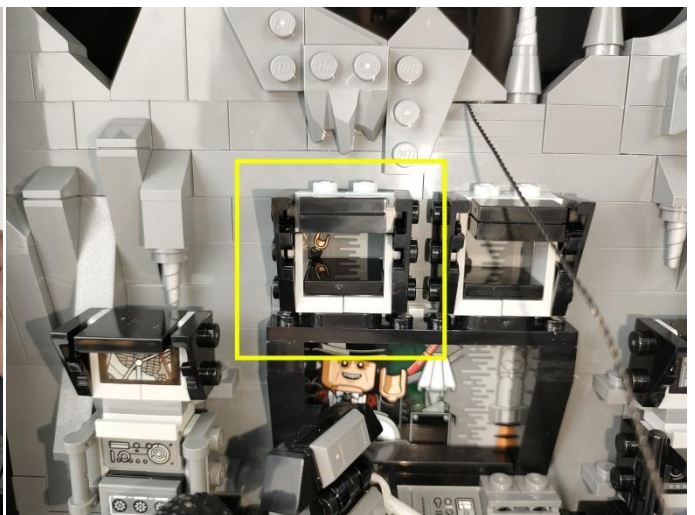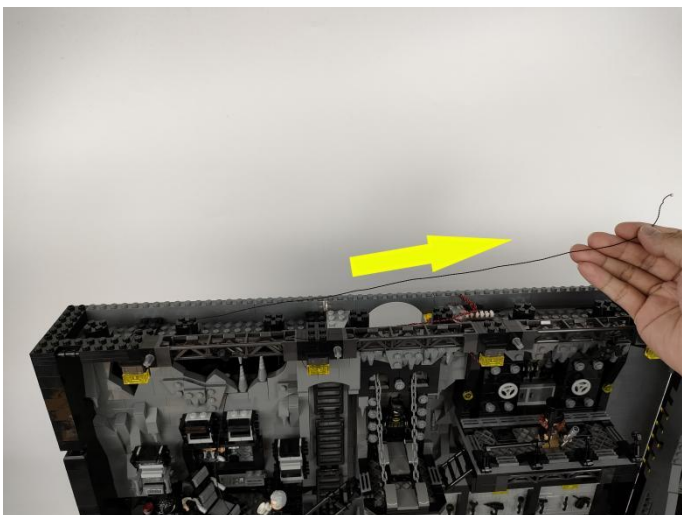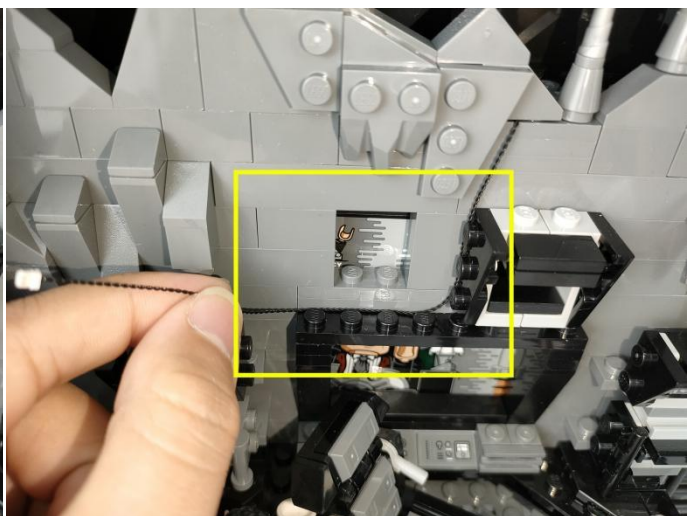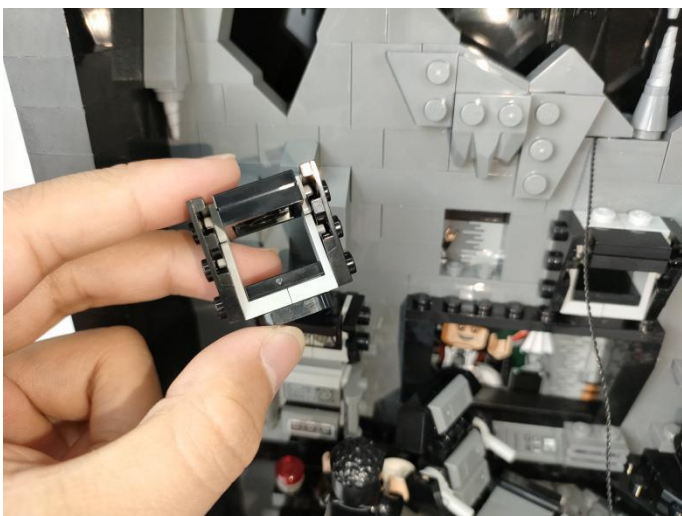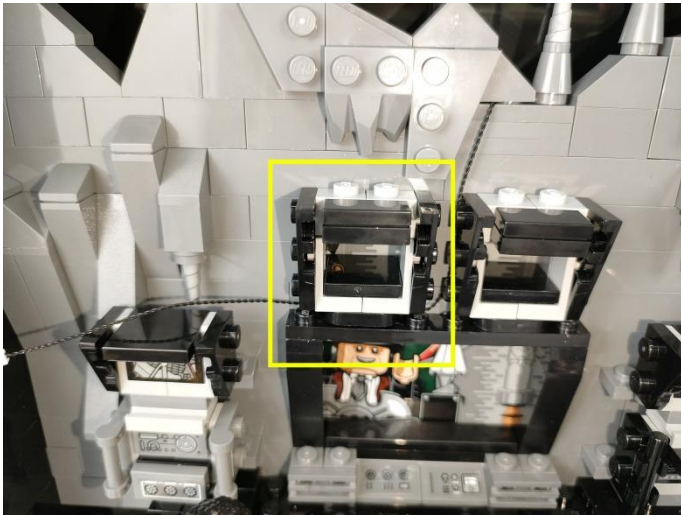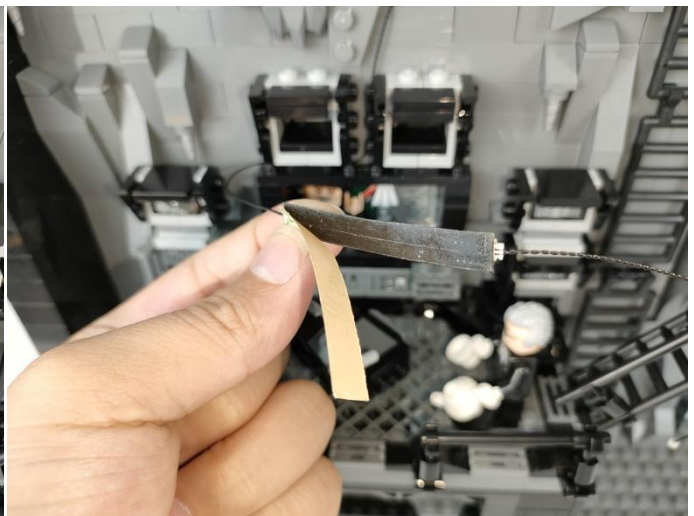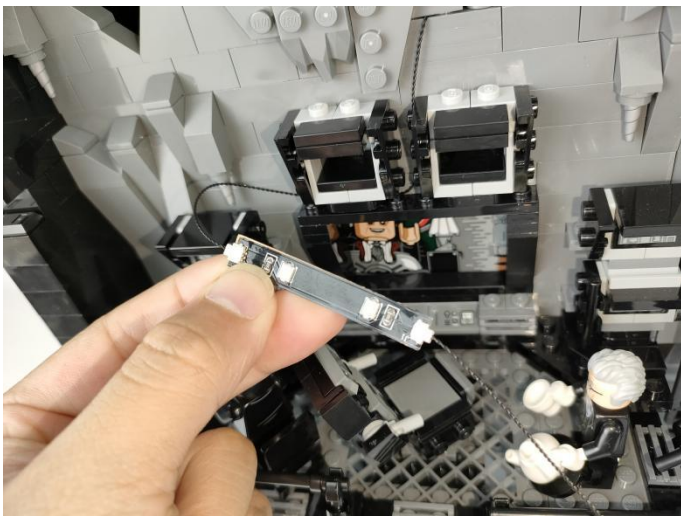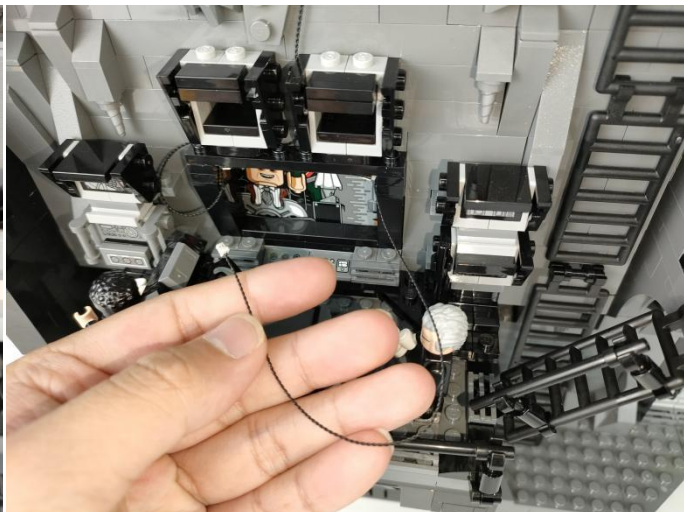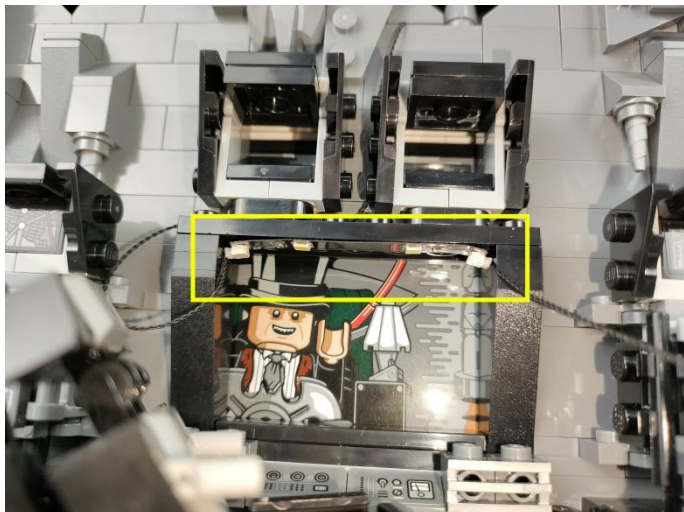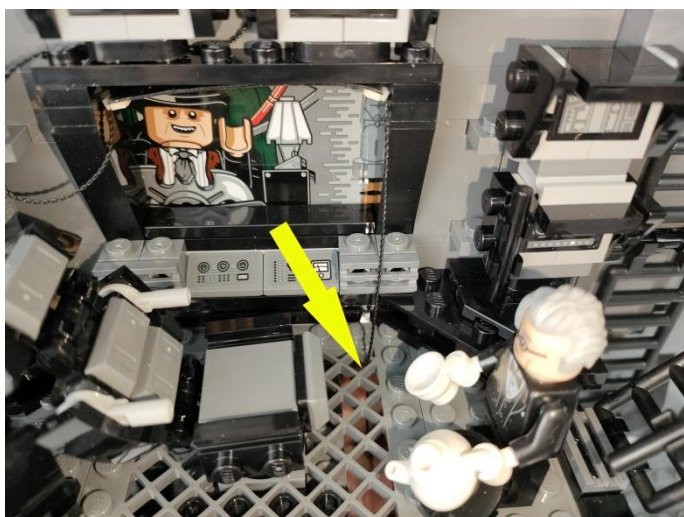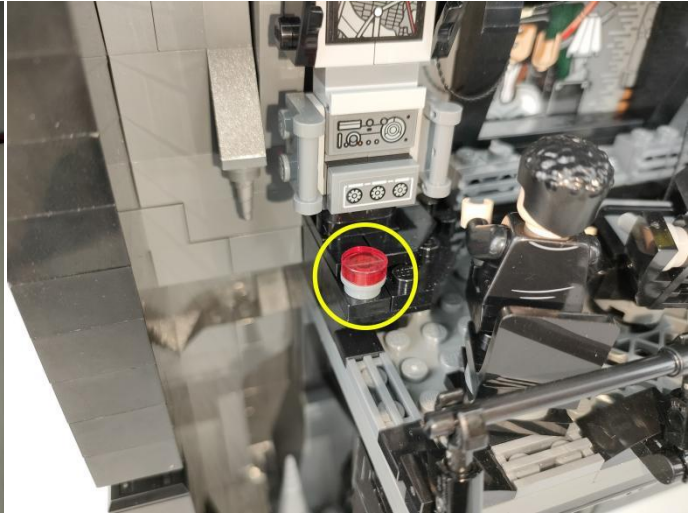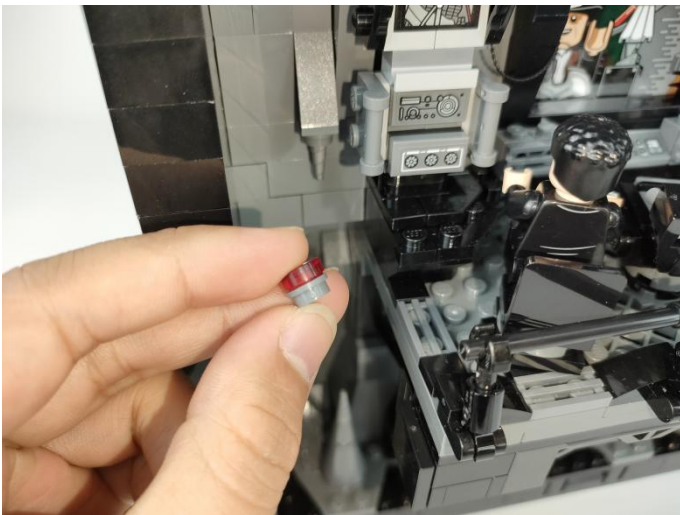
A01103
LED Strip Blue

A01502
Connecting
Cable 15CM

77

A01504
Connecting
Cable 50CM

78

79

80

81

82

83

84

85

A01104
LED Strip White

86

A01502
Connecting
Cable 15CM

87

88

89

A02103
Flash Light-15CM Red

90

Components

91

92

93

94

95

A01103
LED Strip Blue

96

97

98

A1031
High-Brightness Light
15CM-Red

99

100

101

102

103

104

105

A012
Expansion Board

A01506
Connecting Cable 20CM

106

107

108

109

110

A01103
LED Strip Blue

111

A01506
Connecting Cable 20CM

112

113

114

115

LED LIGHT
GHTING KIT

A012
Expansion Board

LED LIGHT
GHTING KIT

A01506
Connecting Cable 20CM
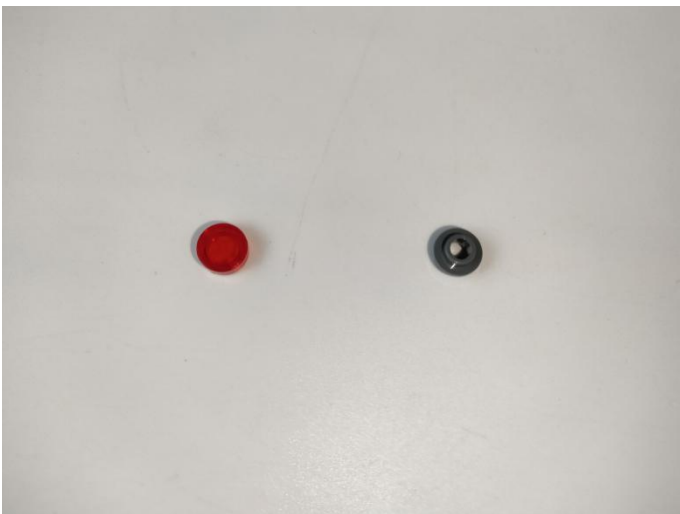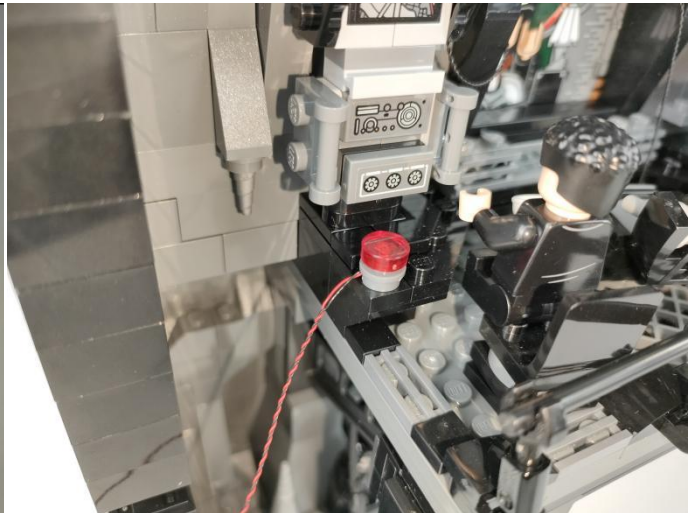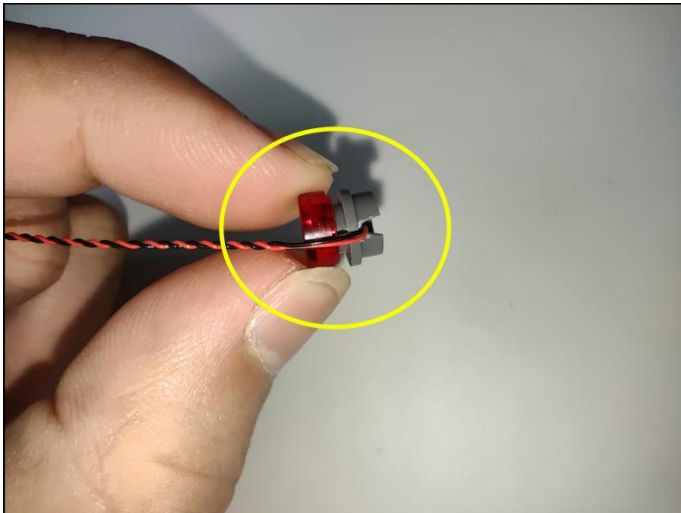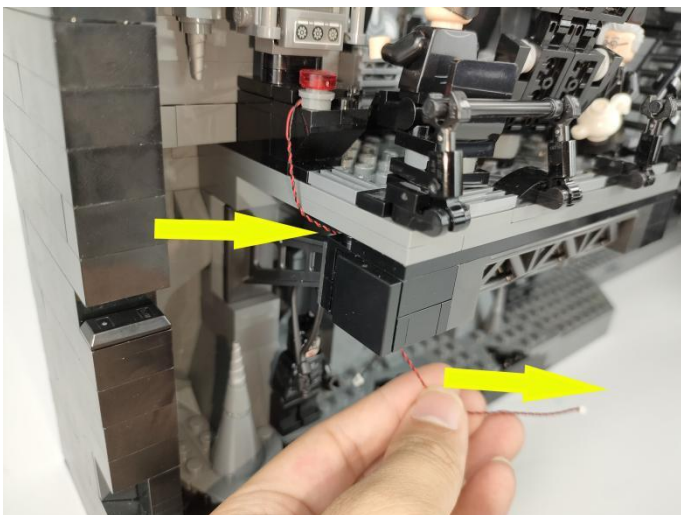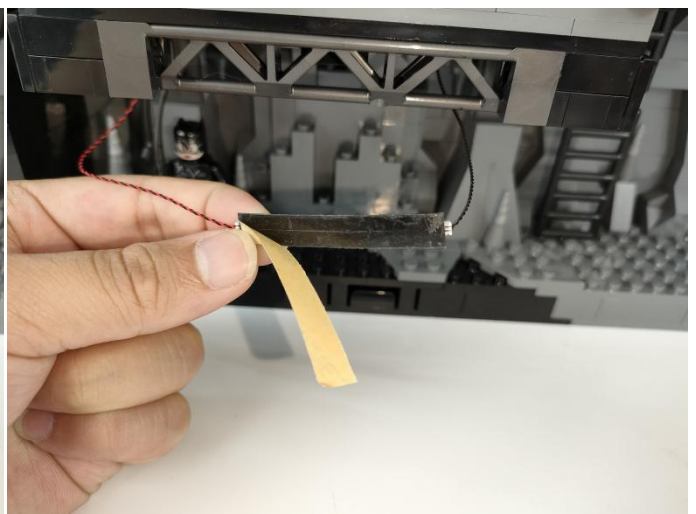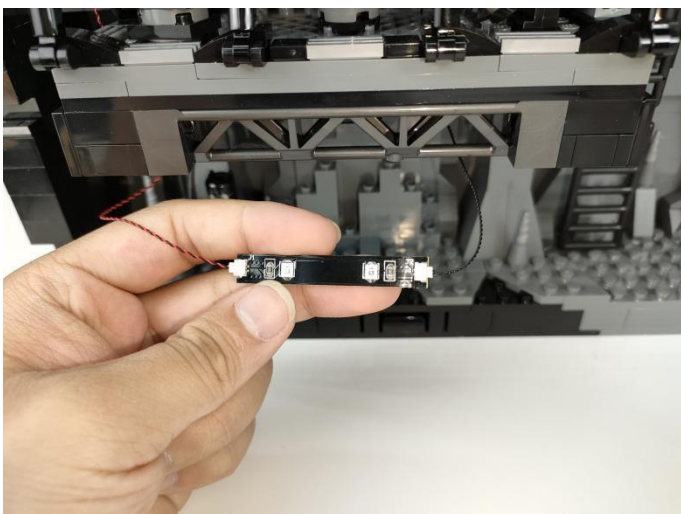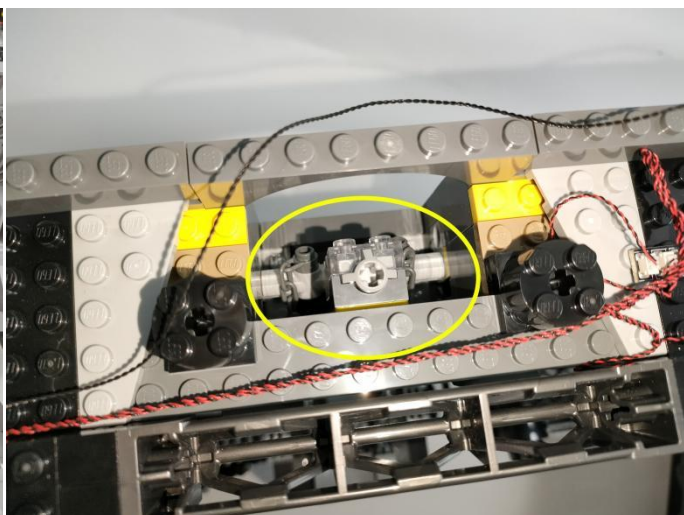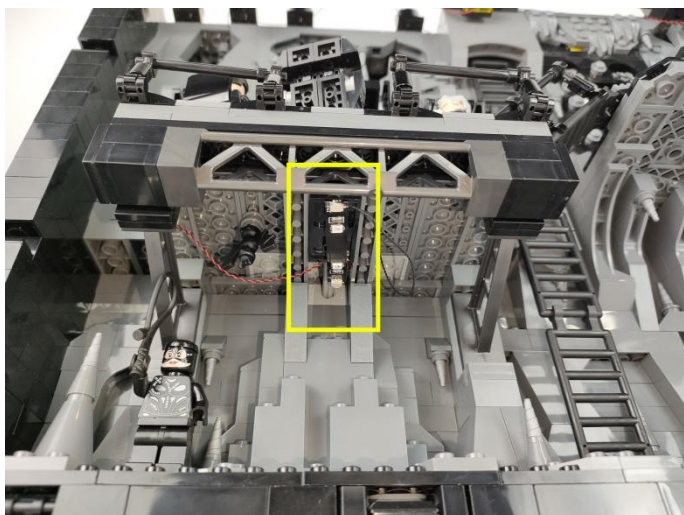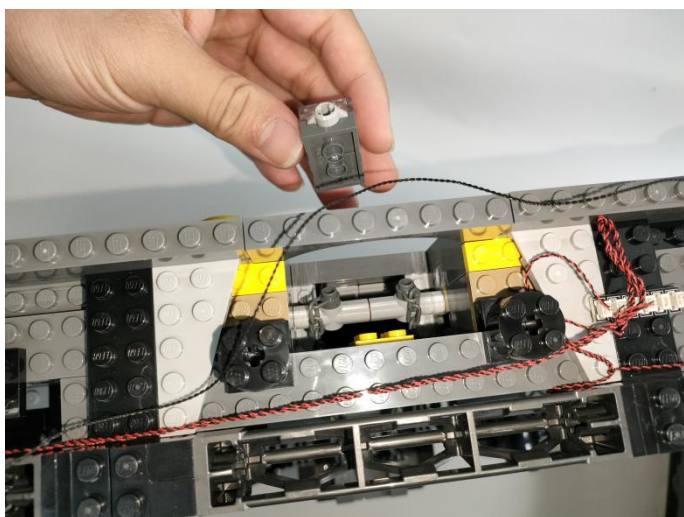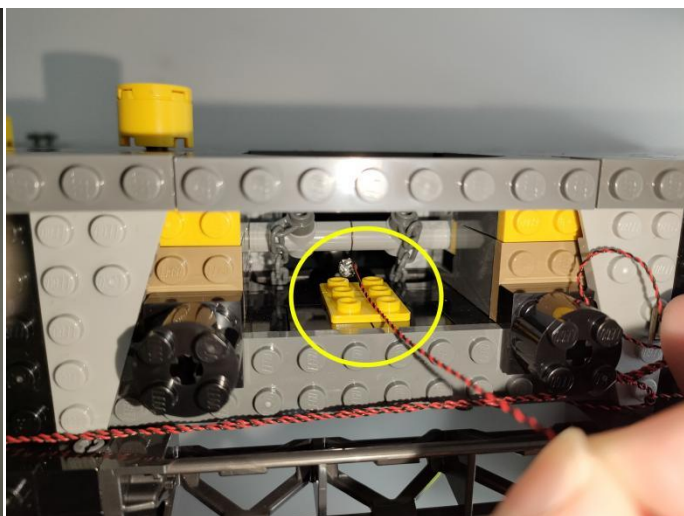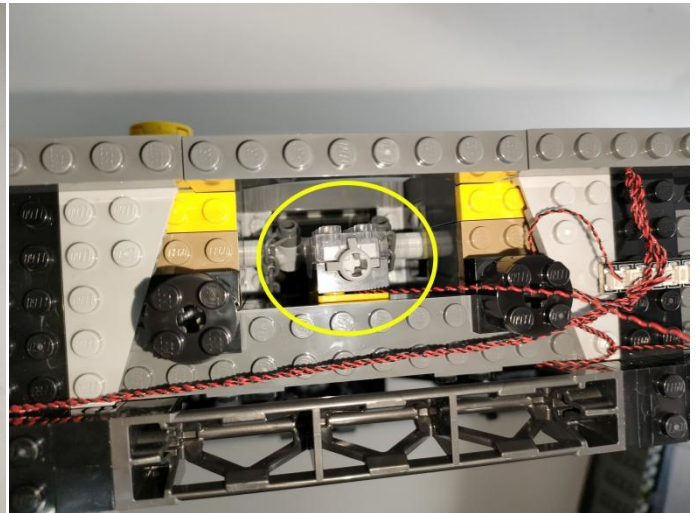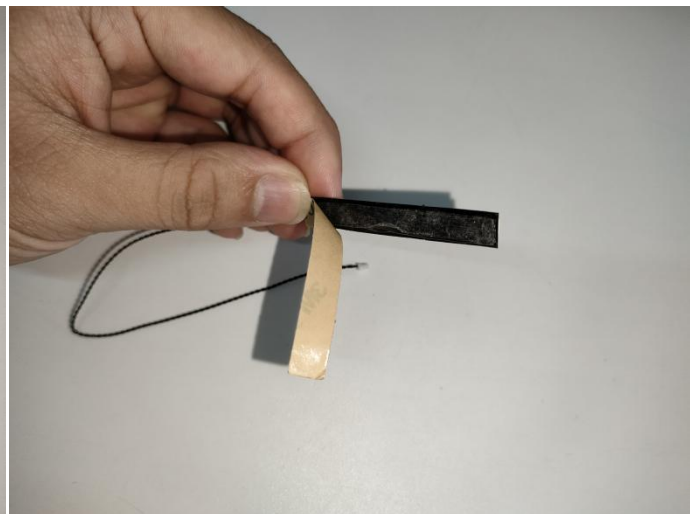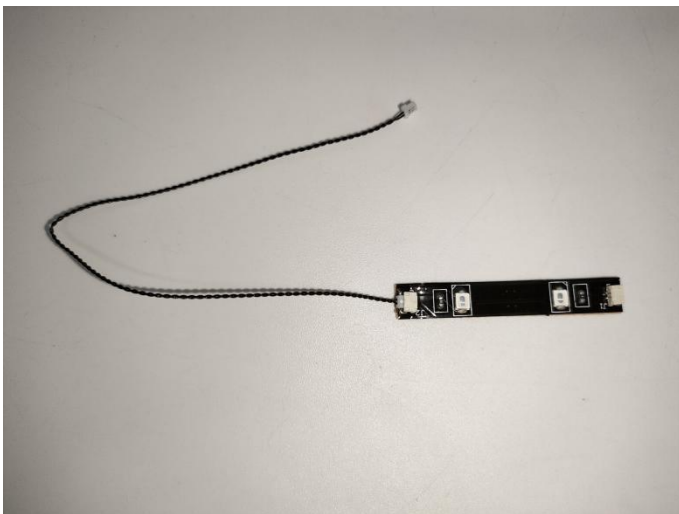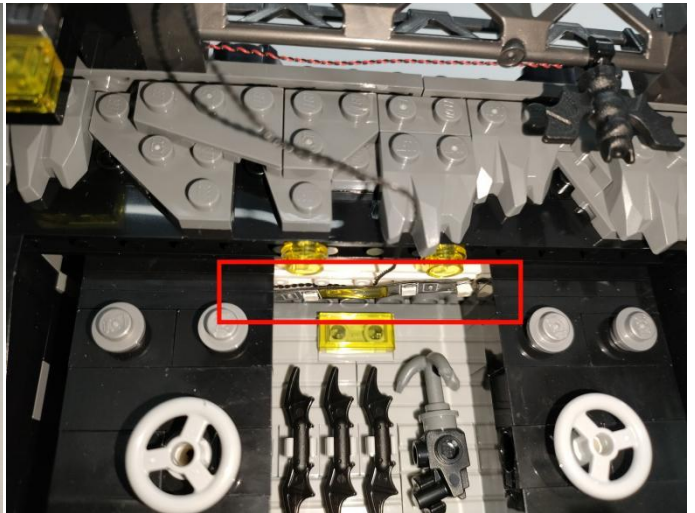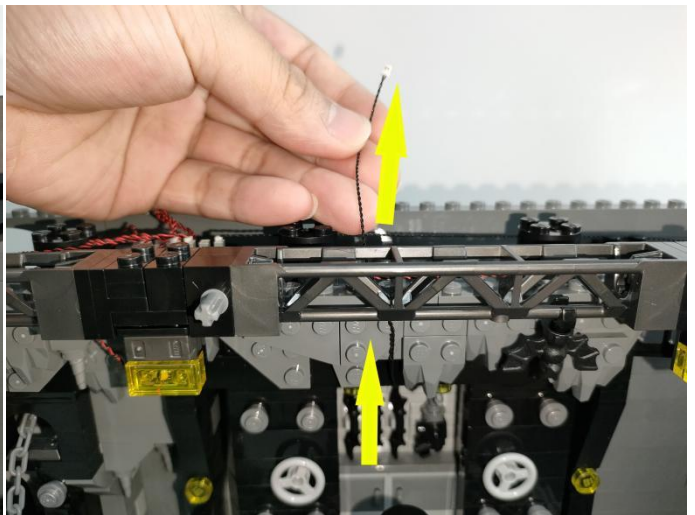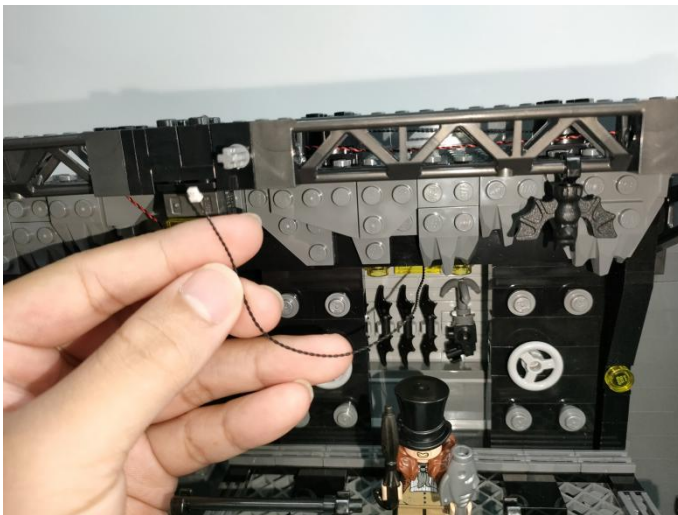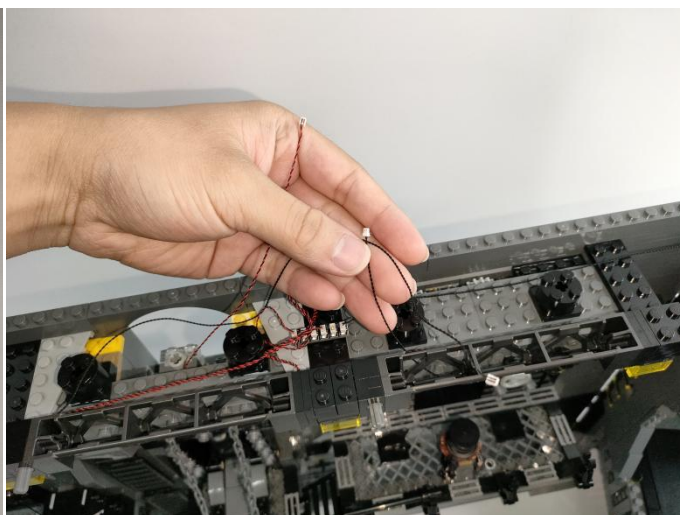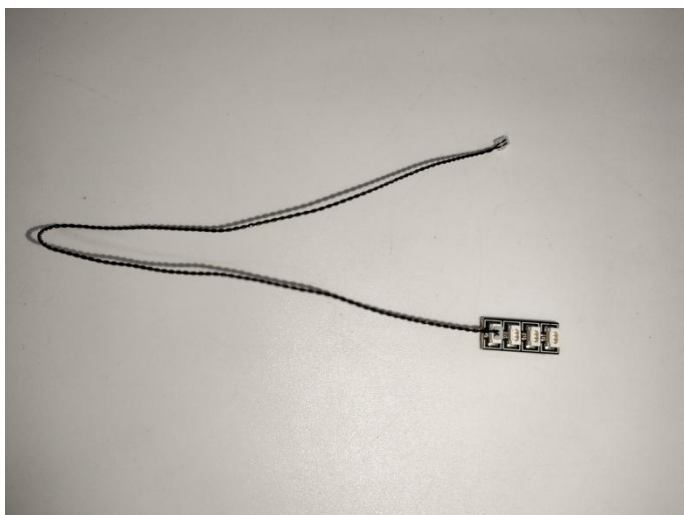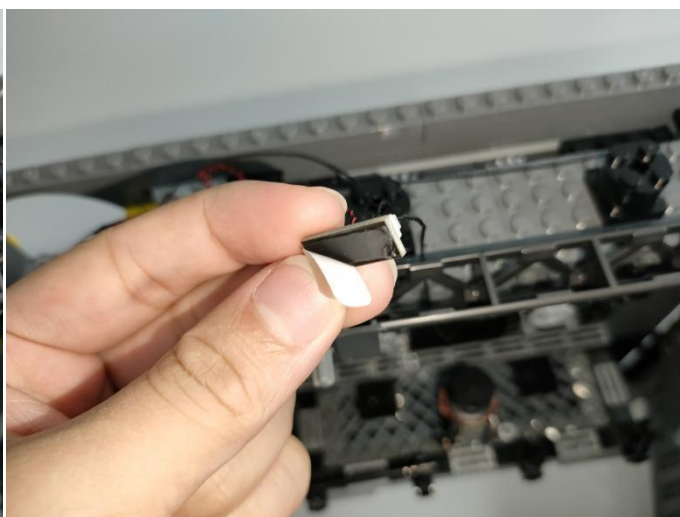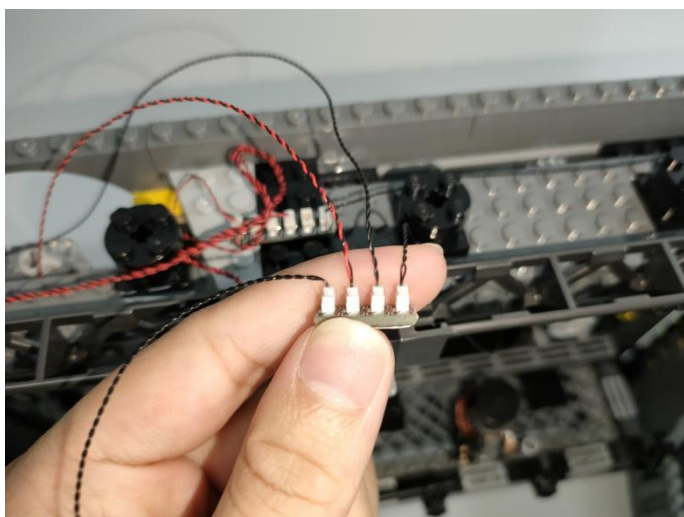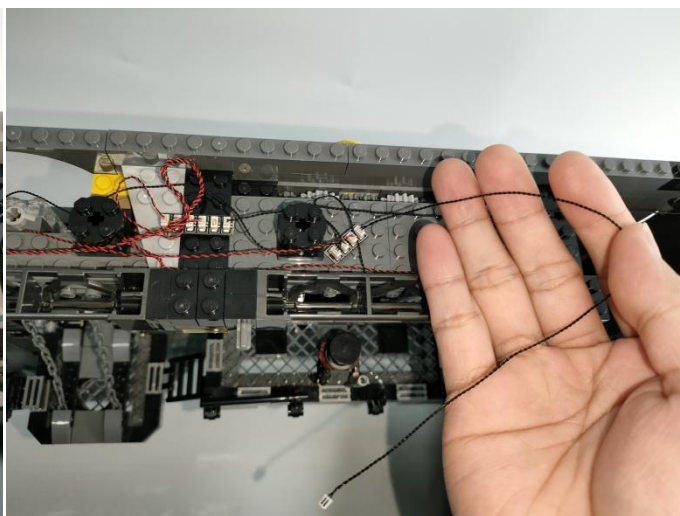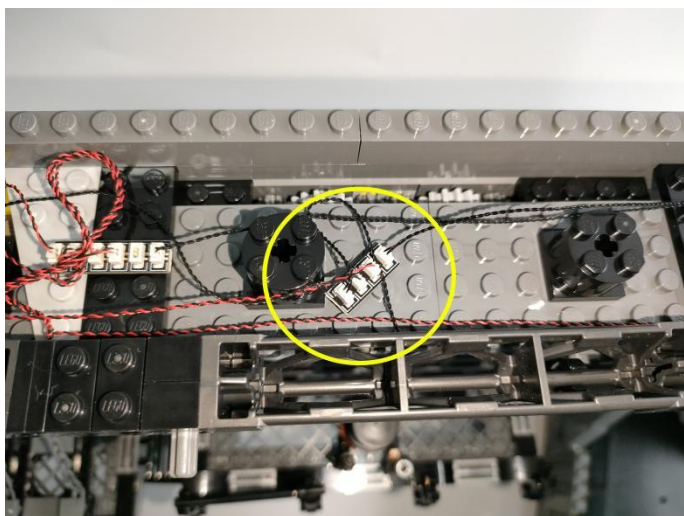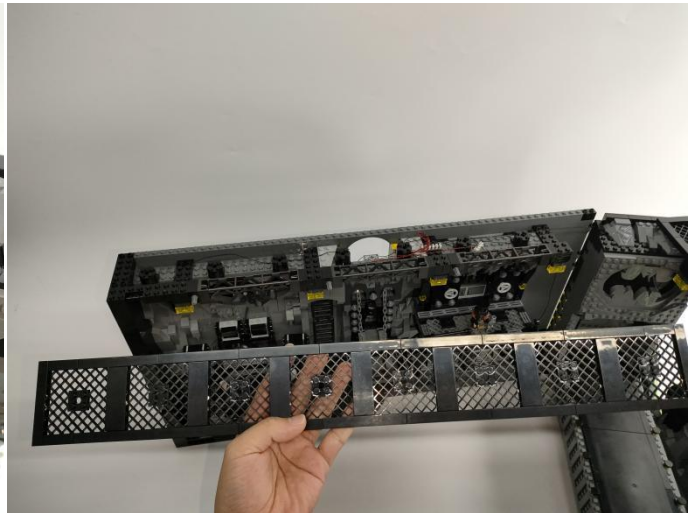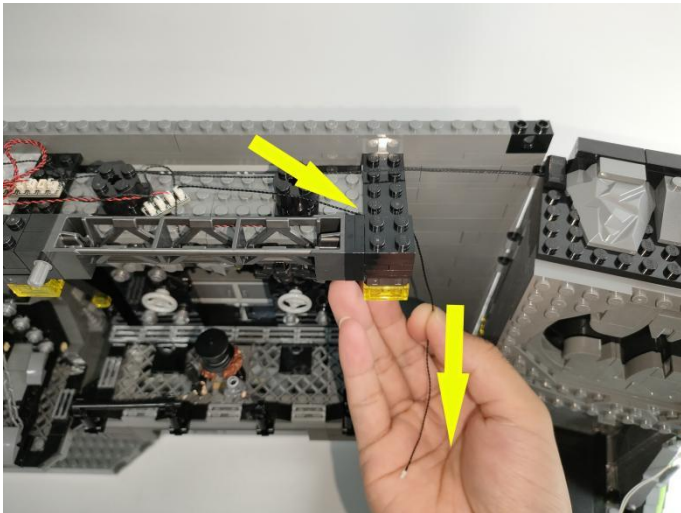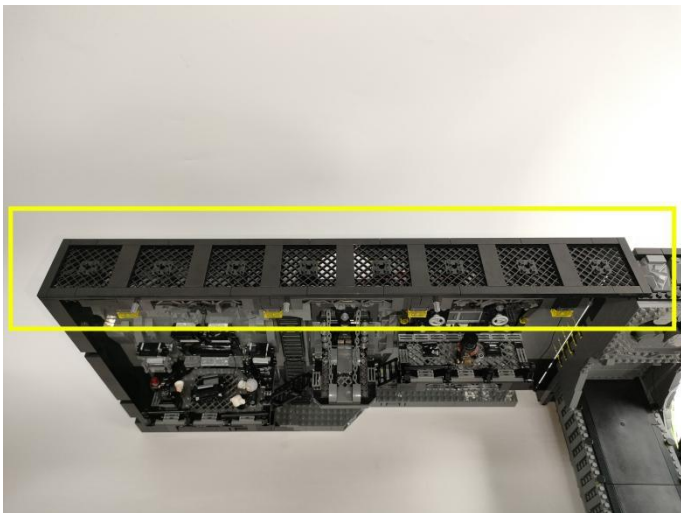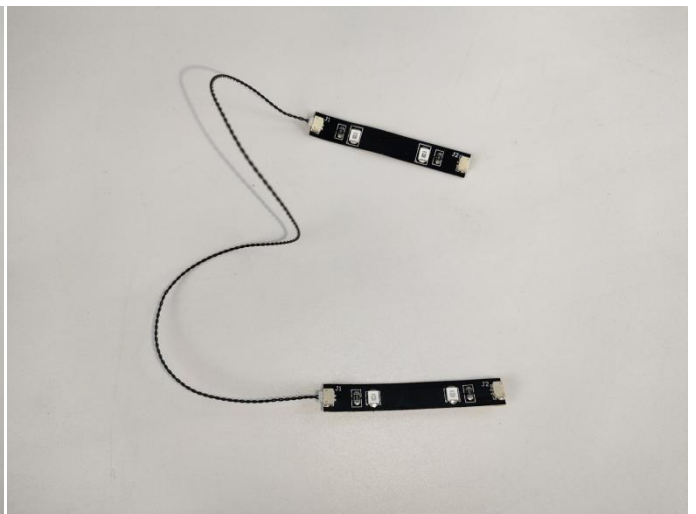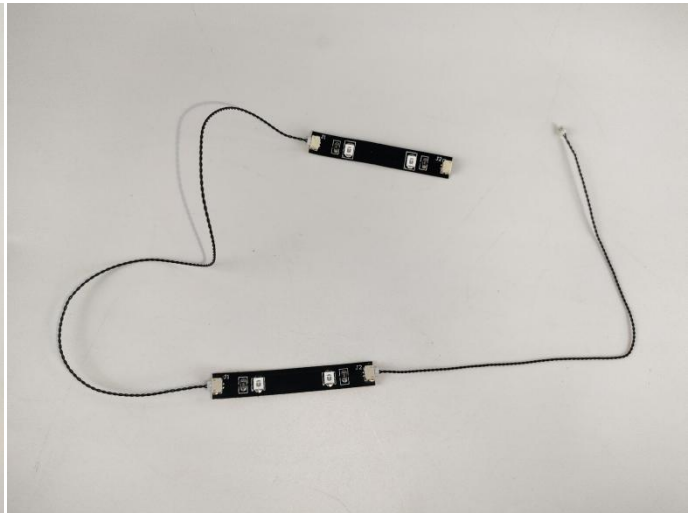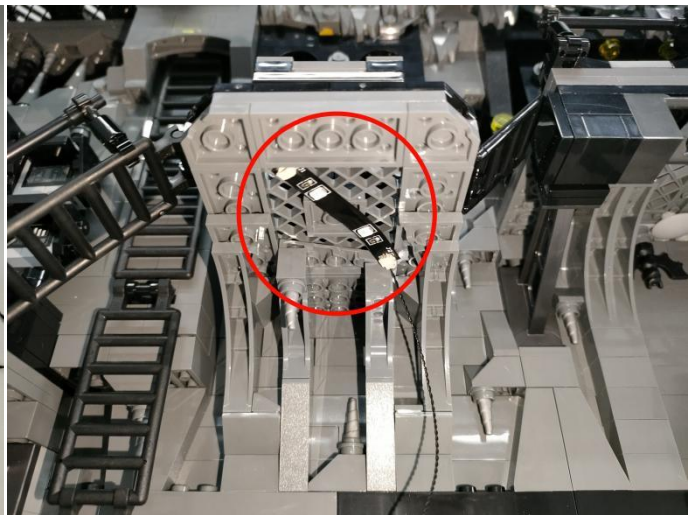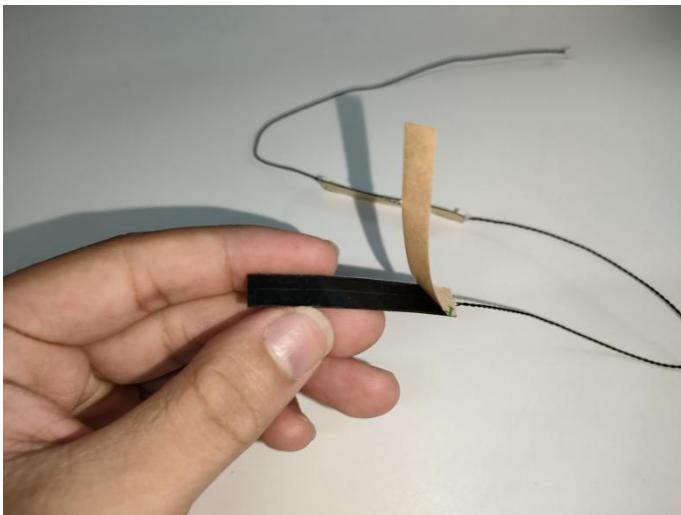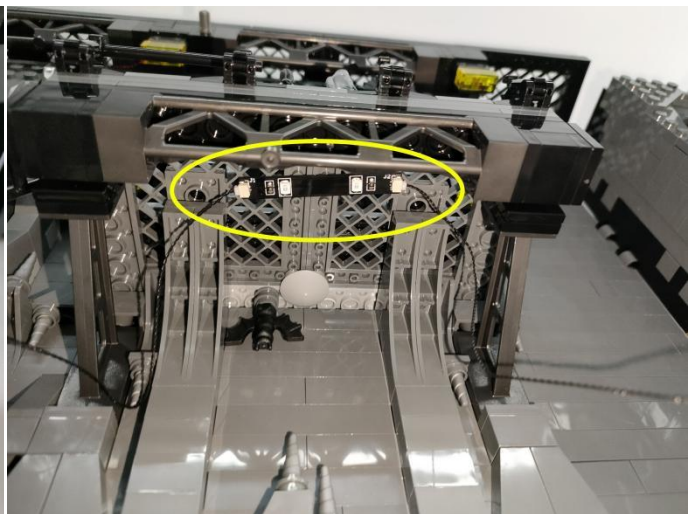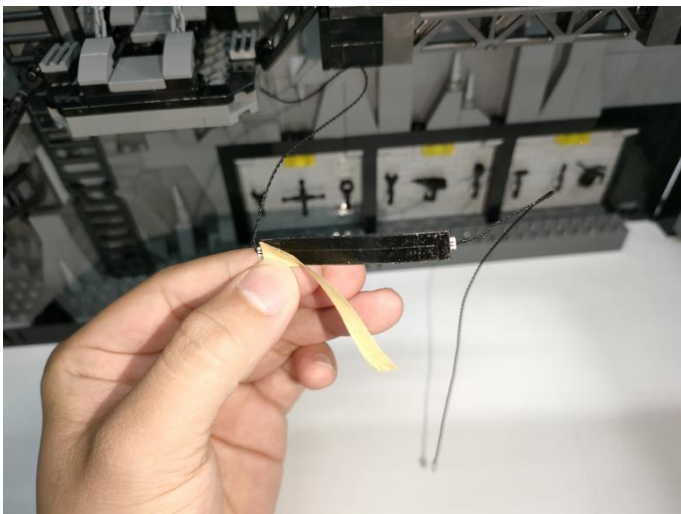
116

117

118

119

120

121

122

A01011
Light-30CM
Warm White

123

124

125

126

A012
Expansion Board

A01506
Connecting Cable 20CM

127

128

129

130

A02552
Light Strip-Blue
-COB

131

132

133

A01101
LED Strip Red

134

A01506
Connecting Cable 20CM
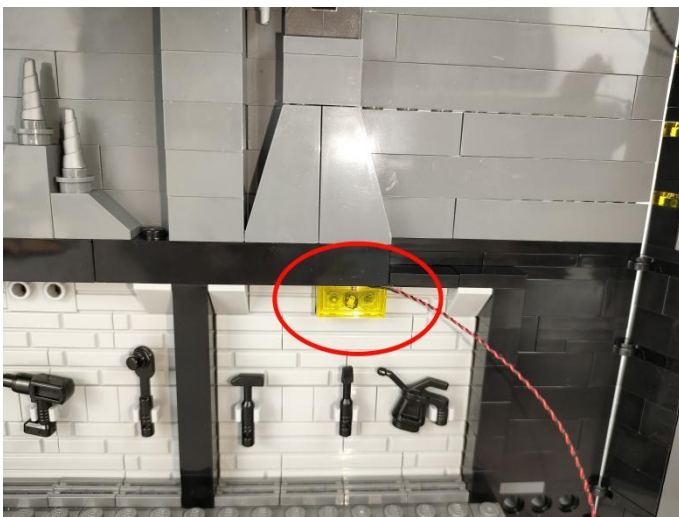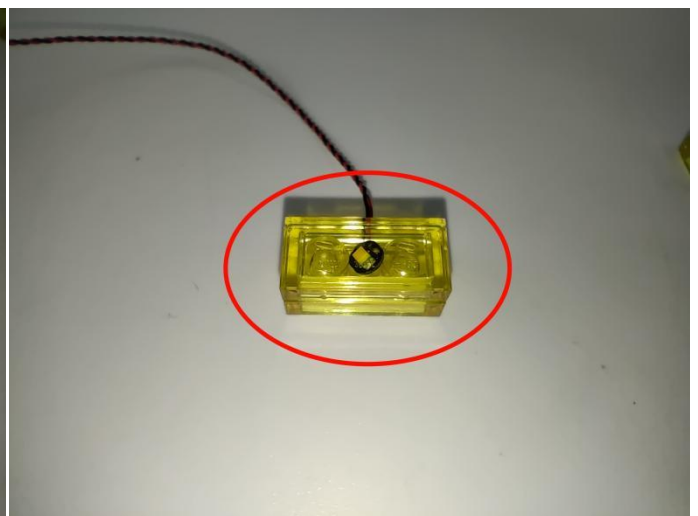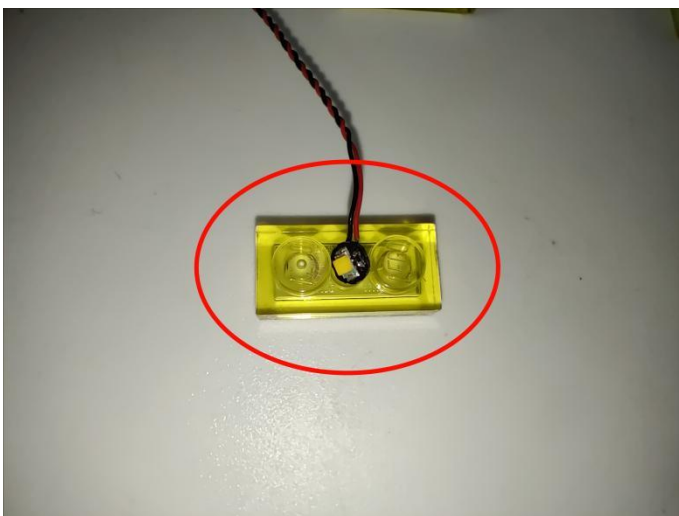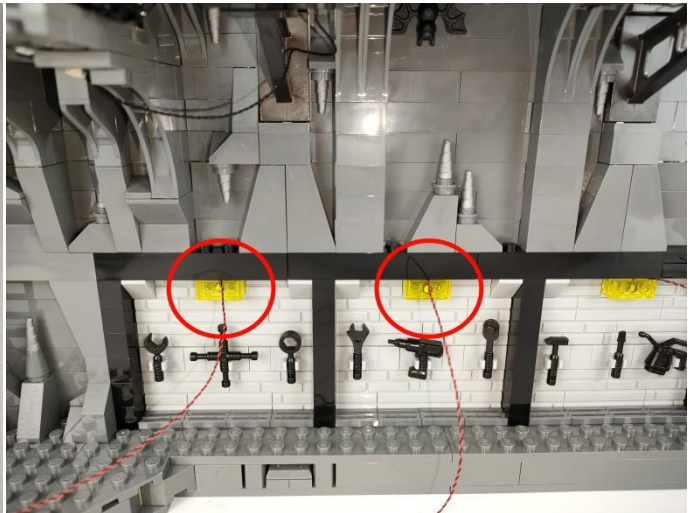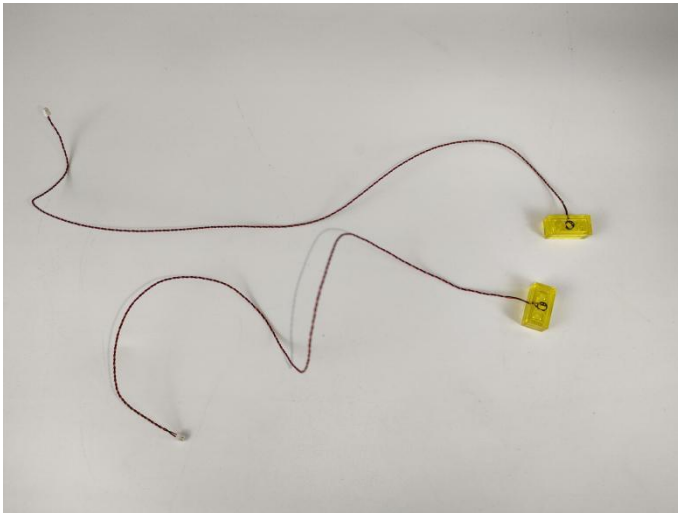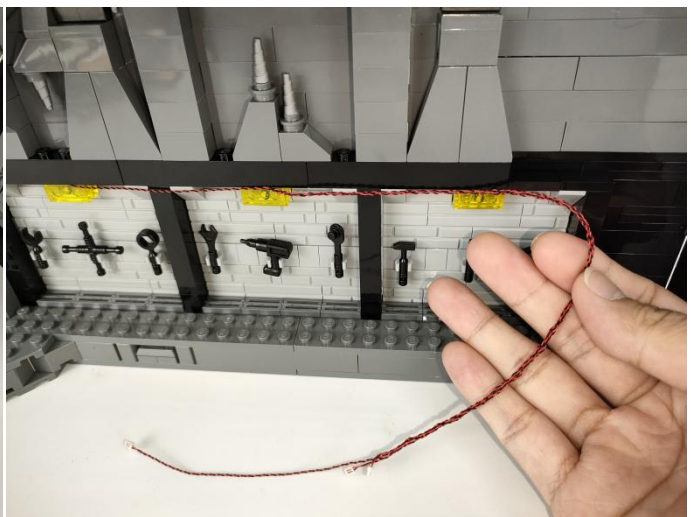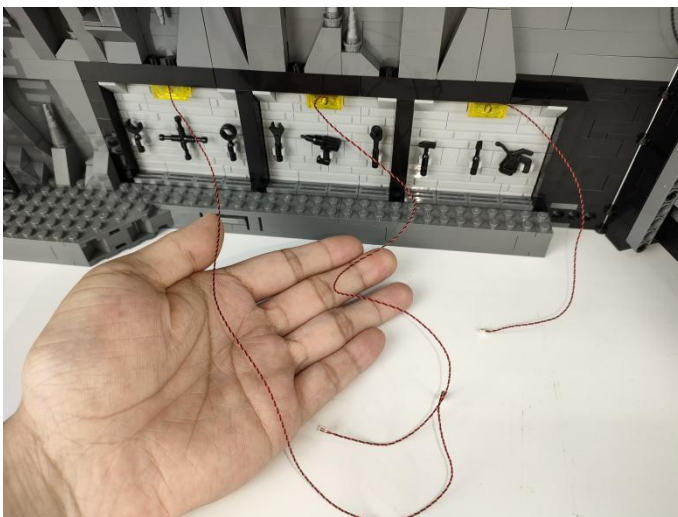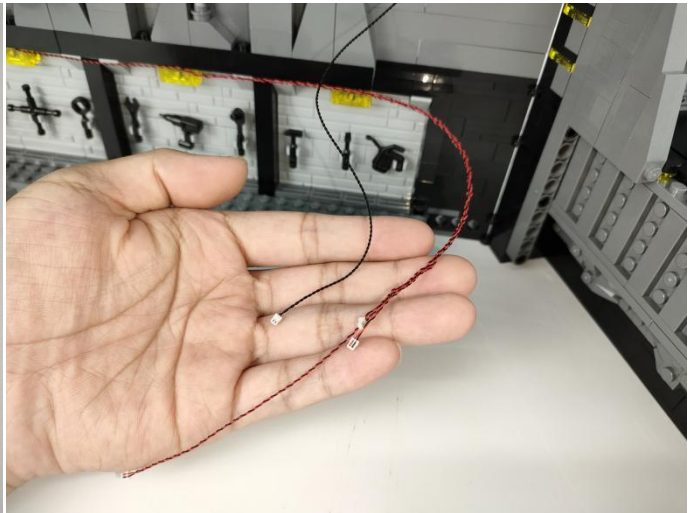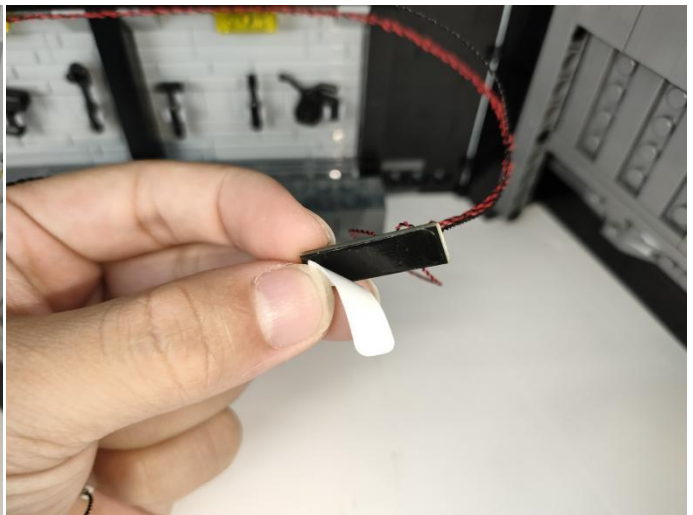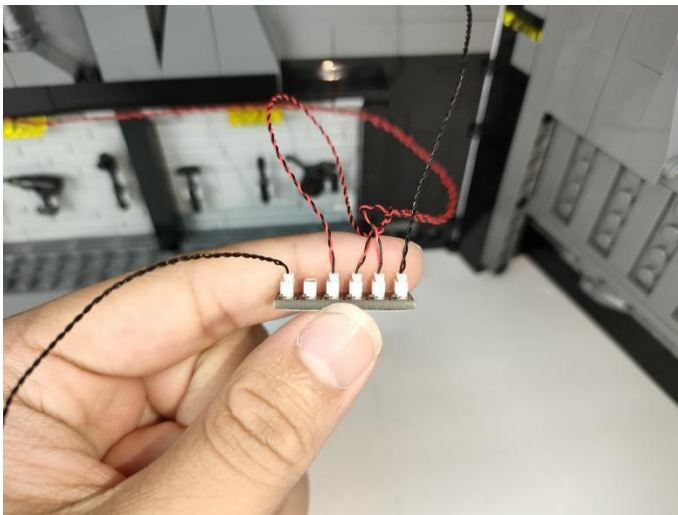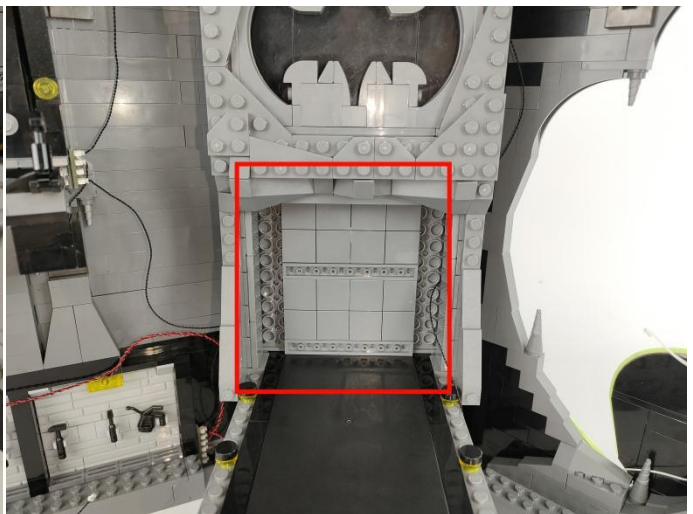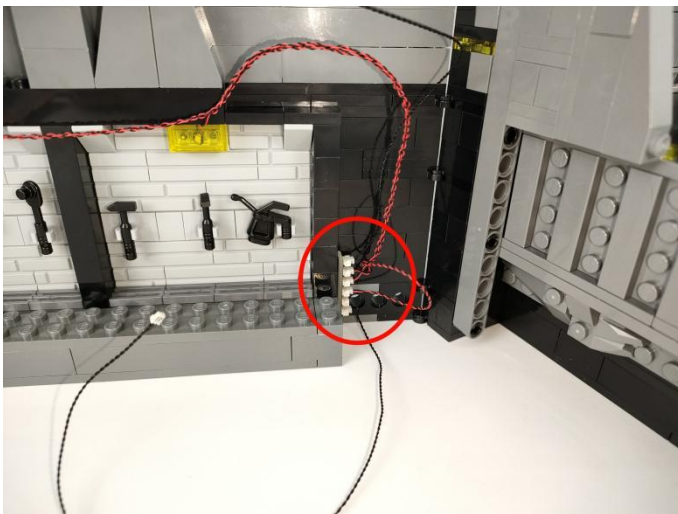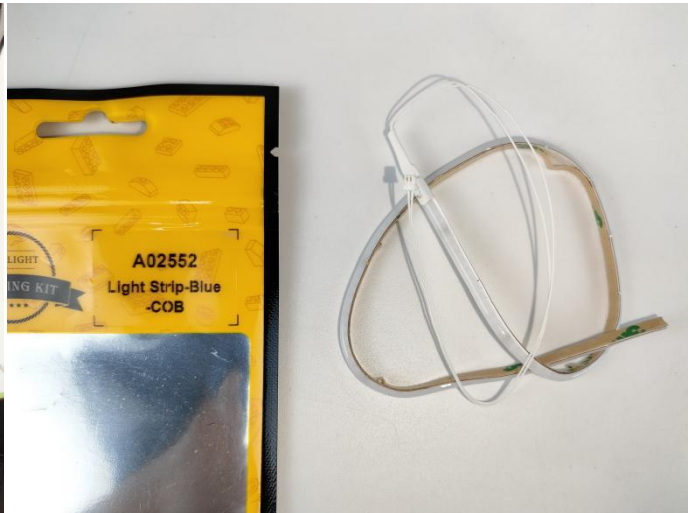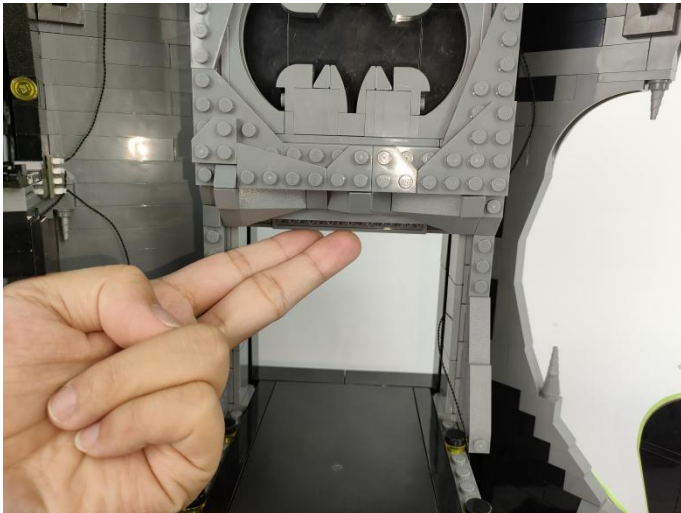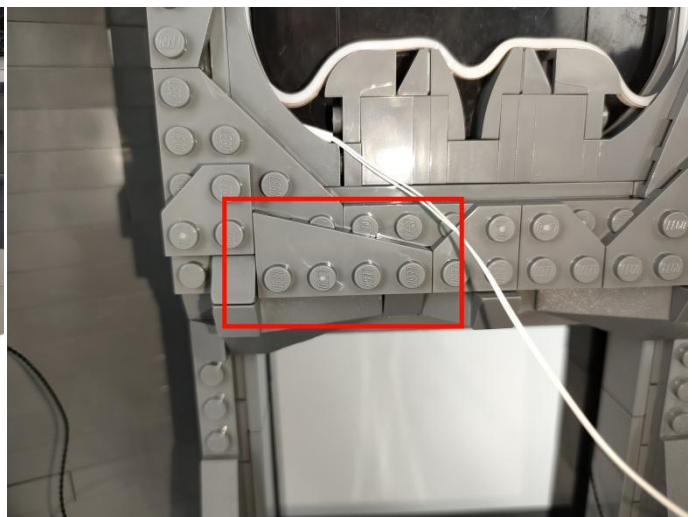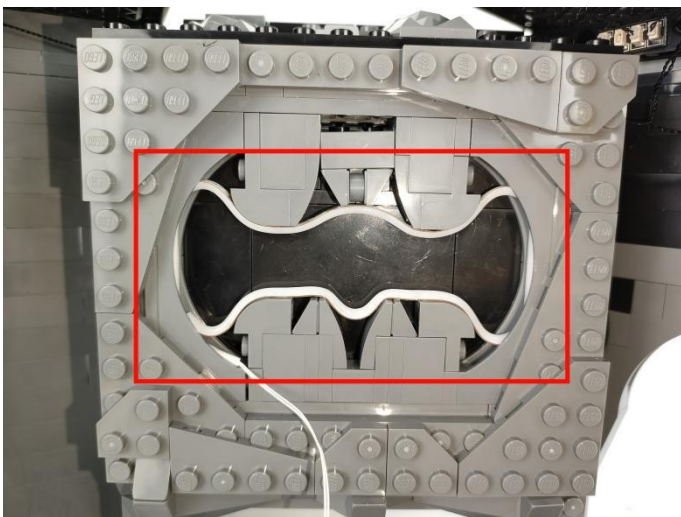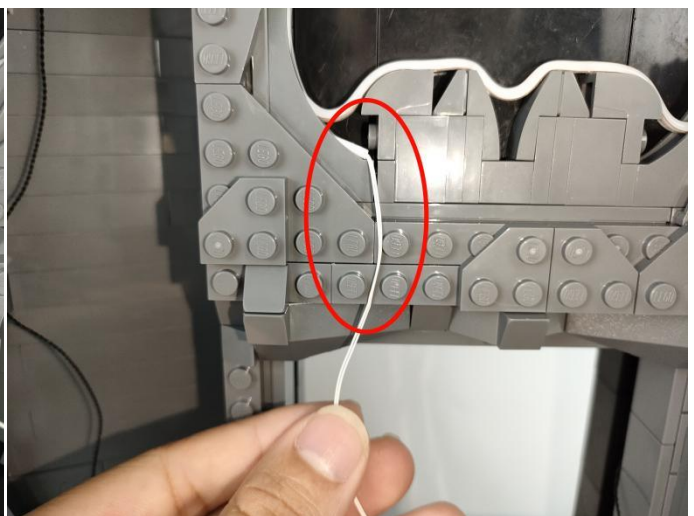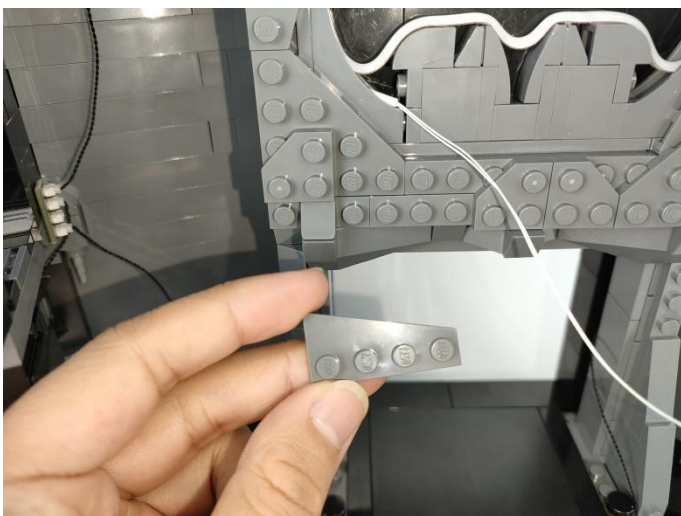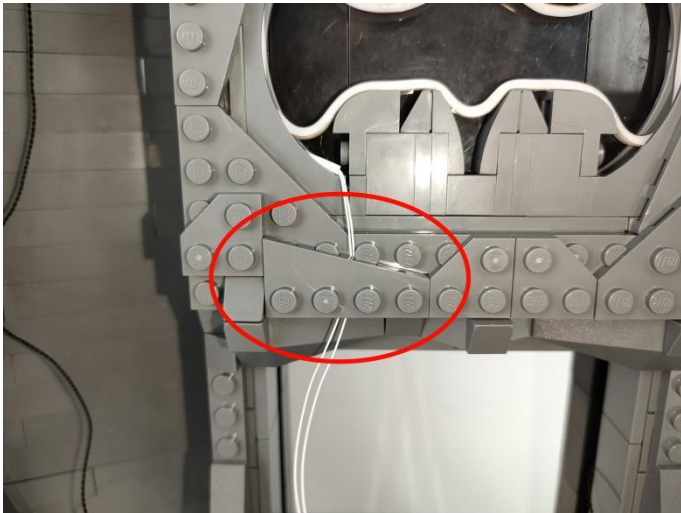
135
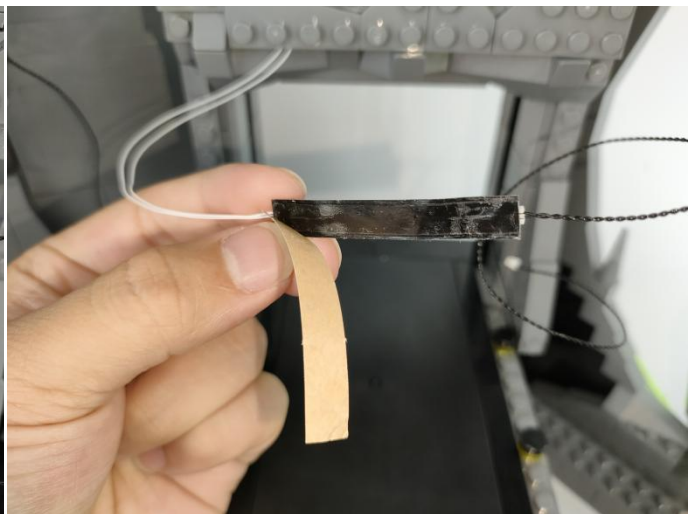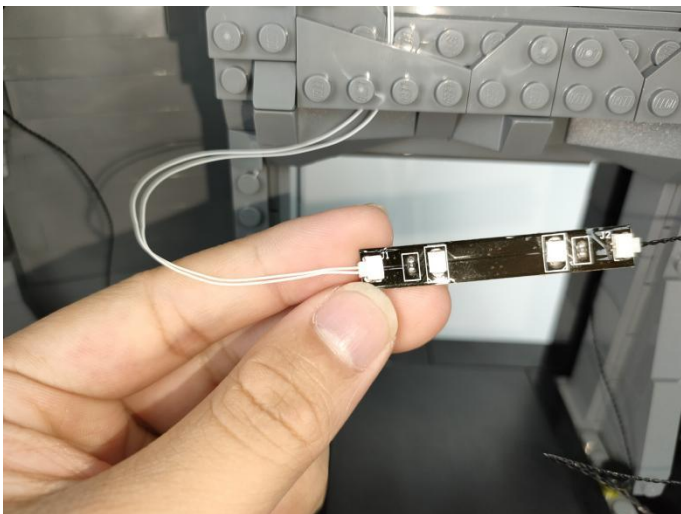
136
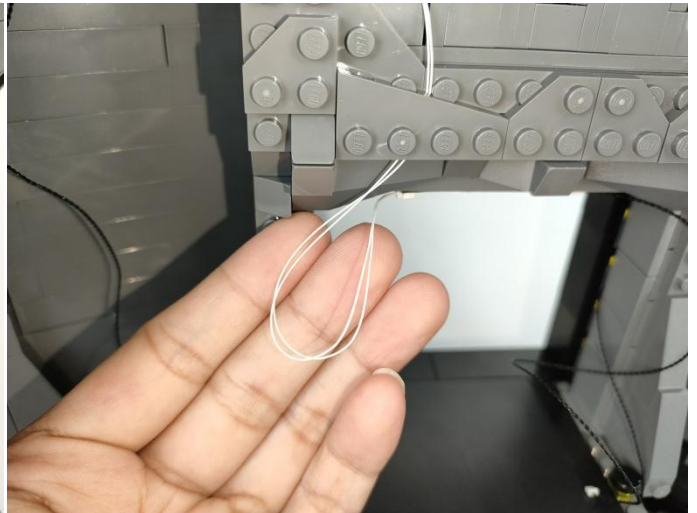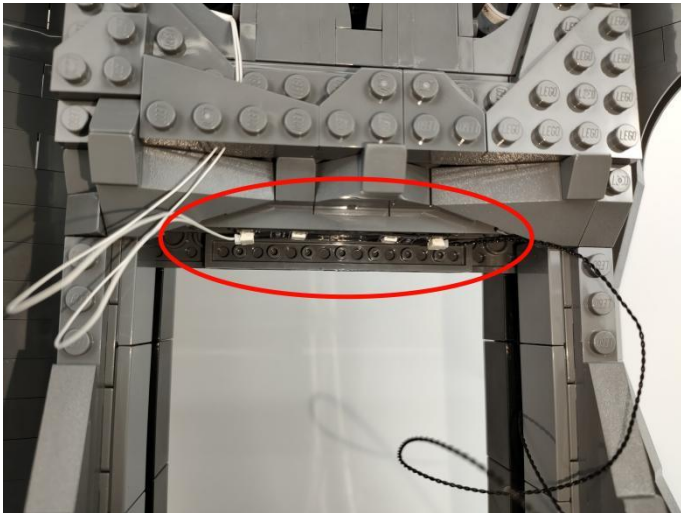
137
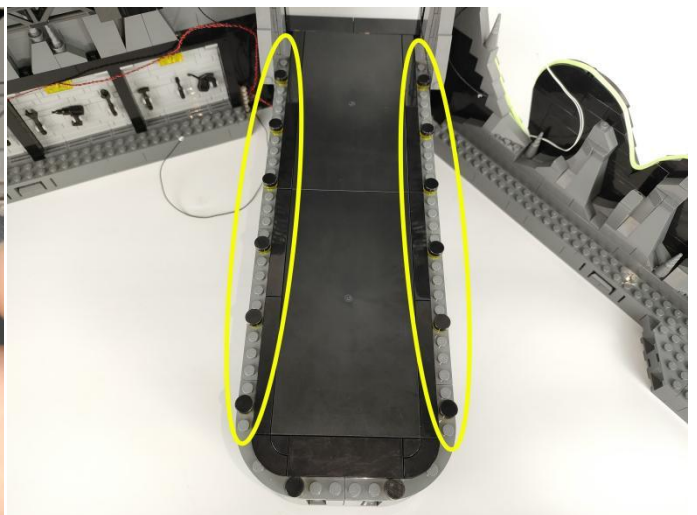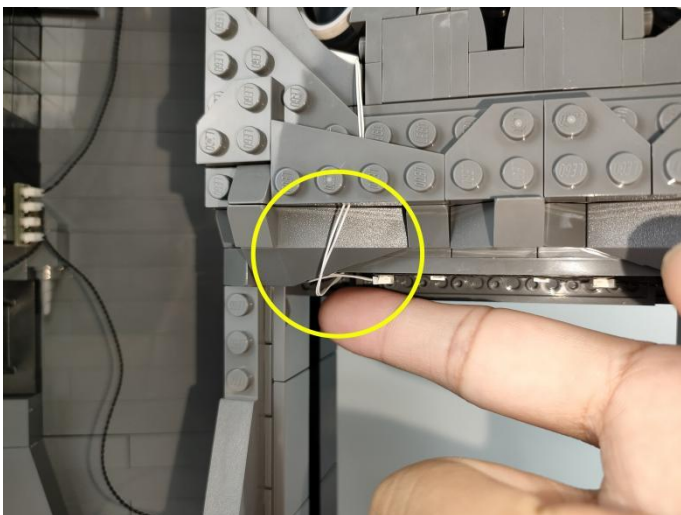
138
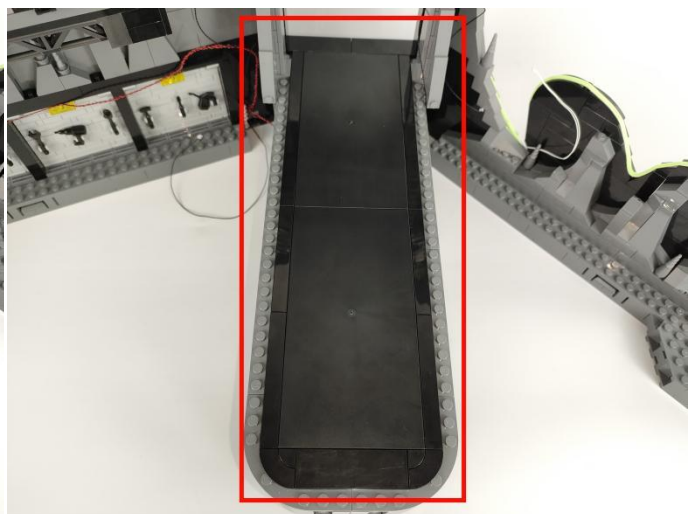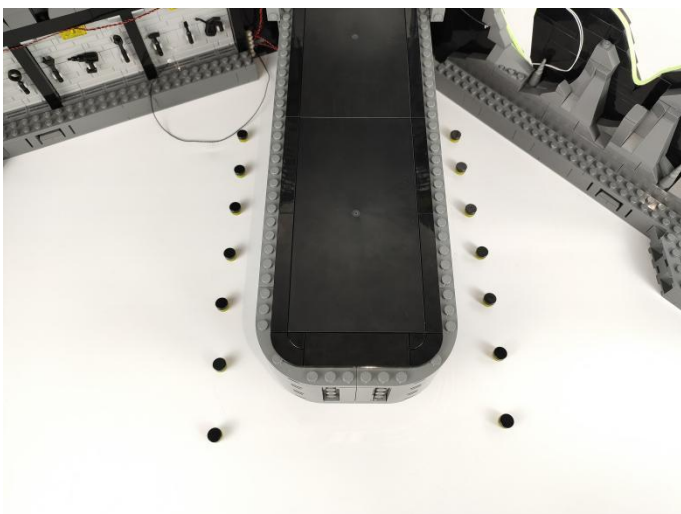
139
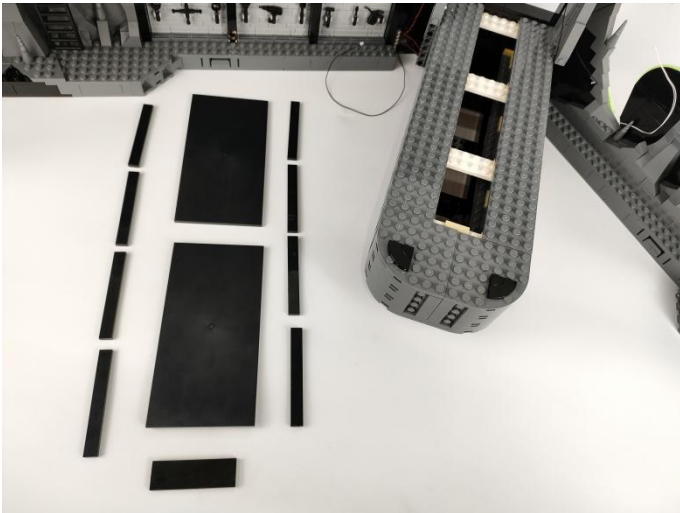
140
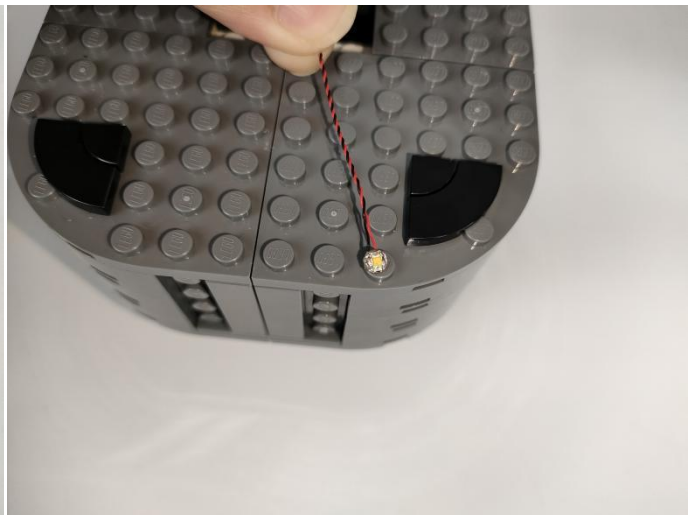
141
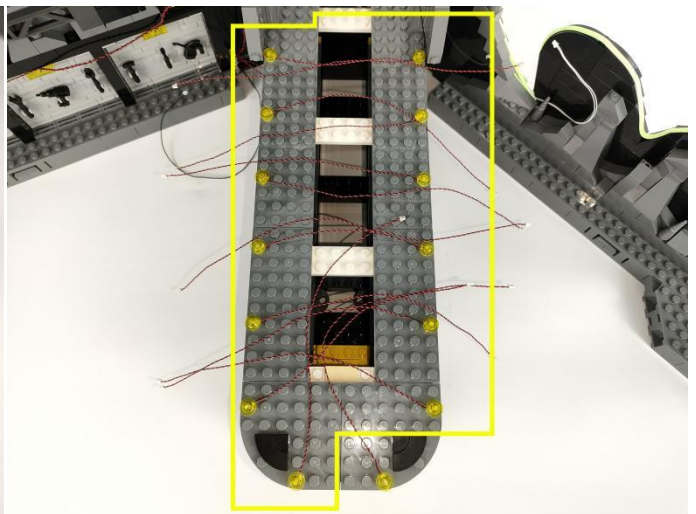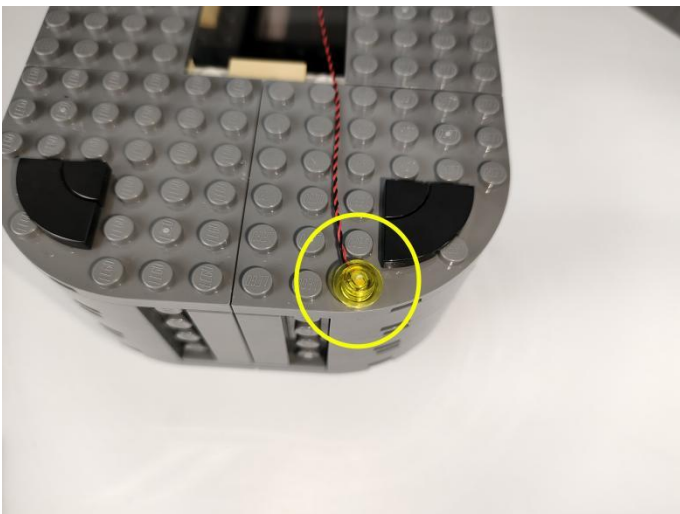
142
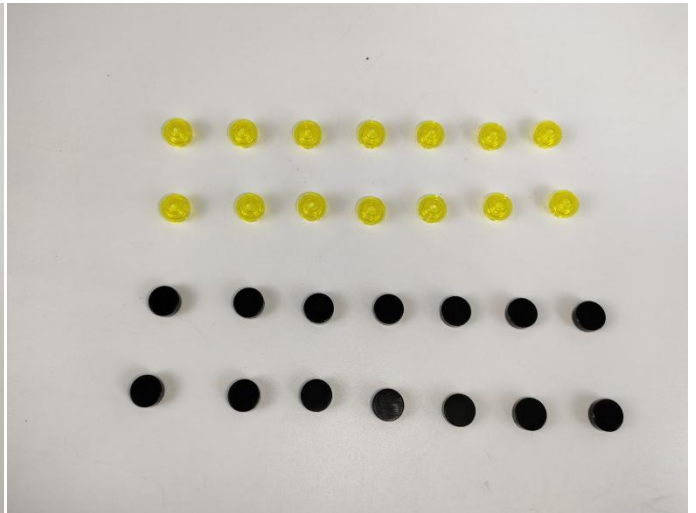
143
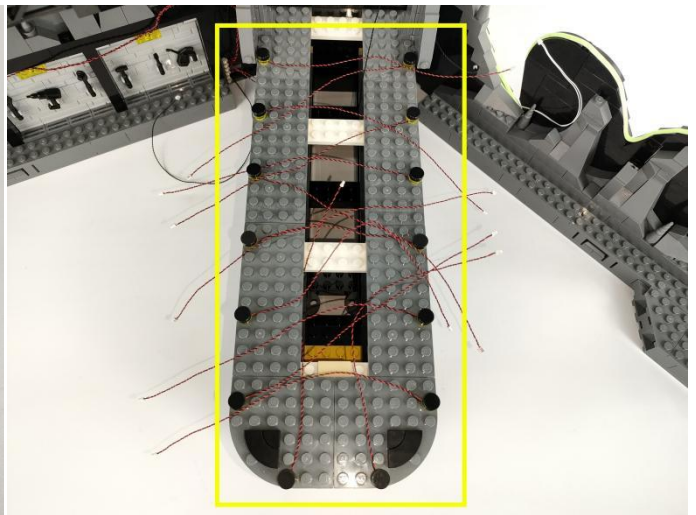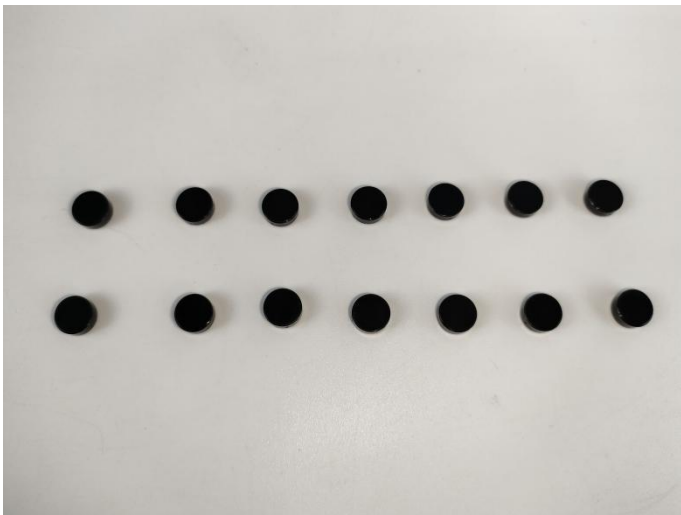
144

145

146

147

148

149

150

A012
Expansion Board

A01506
Connecting Cable 20CM
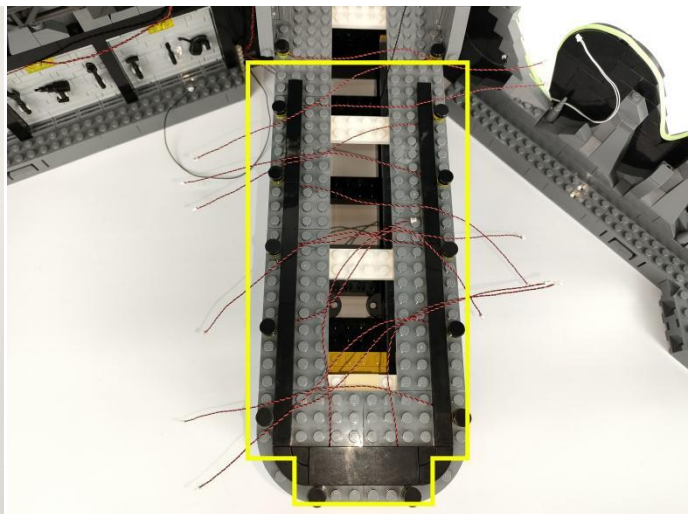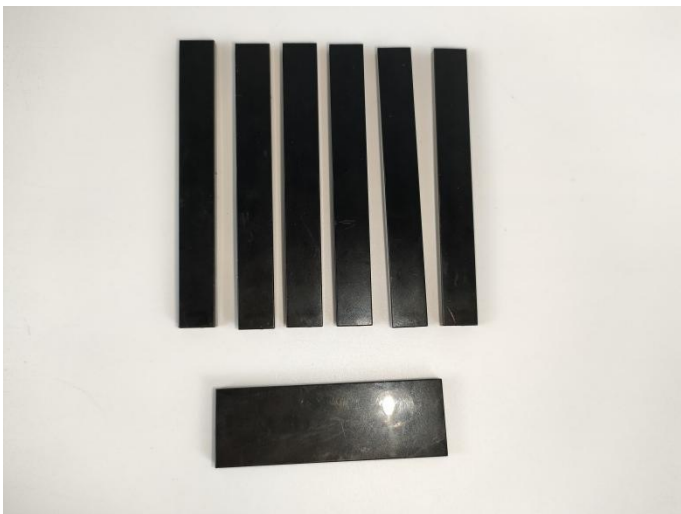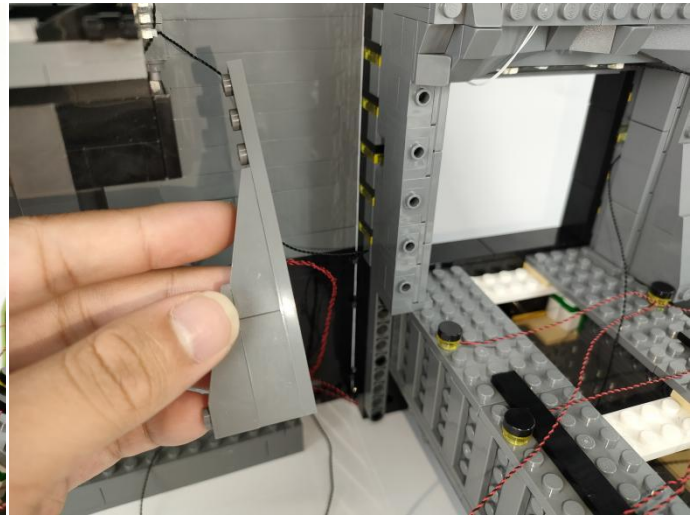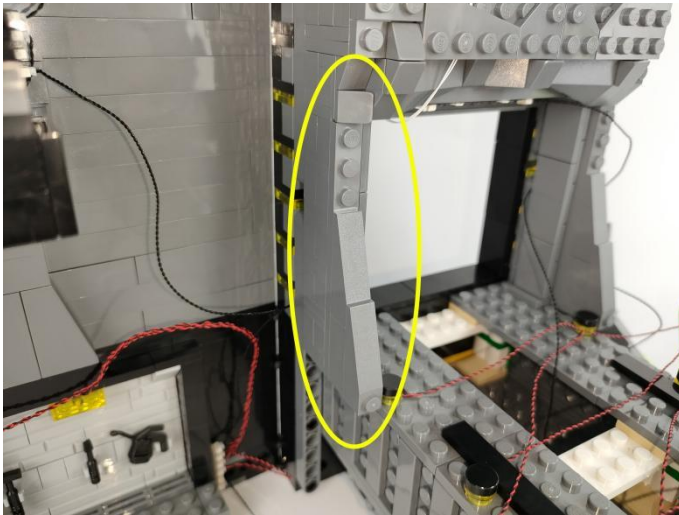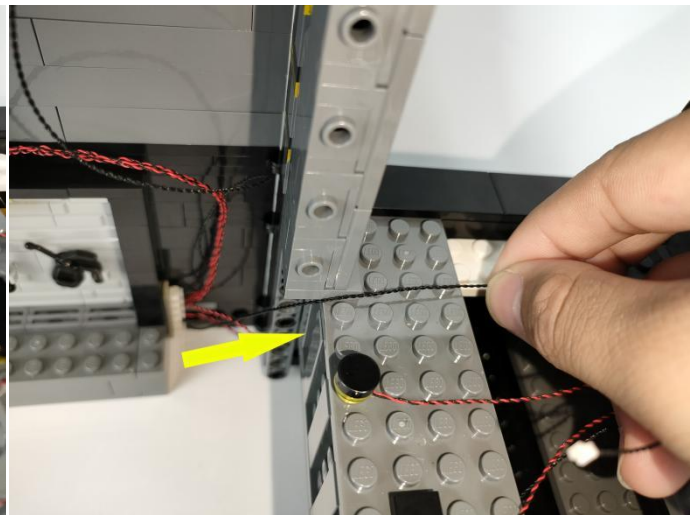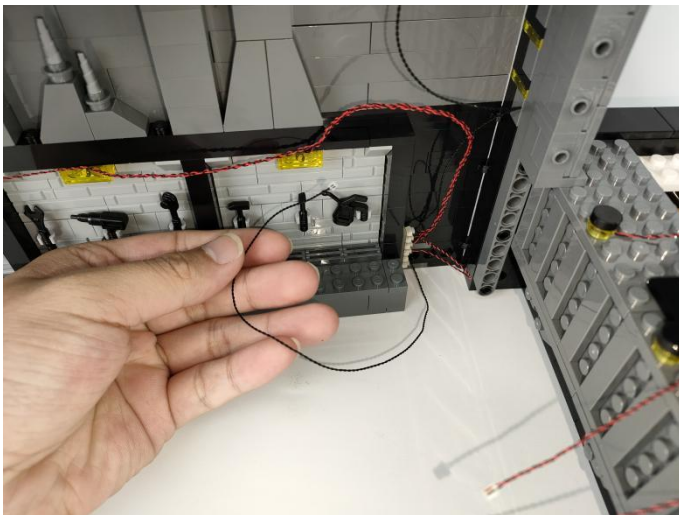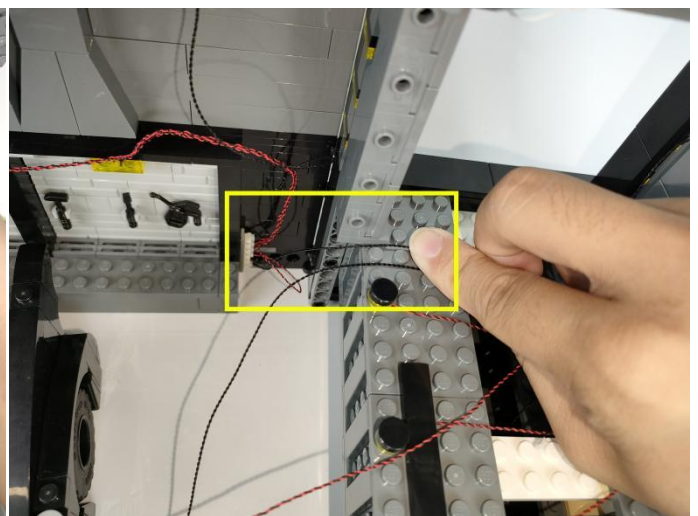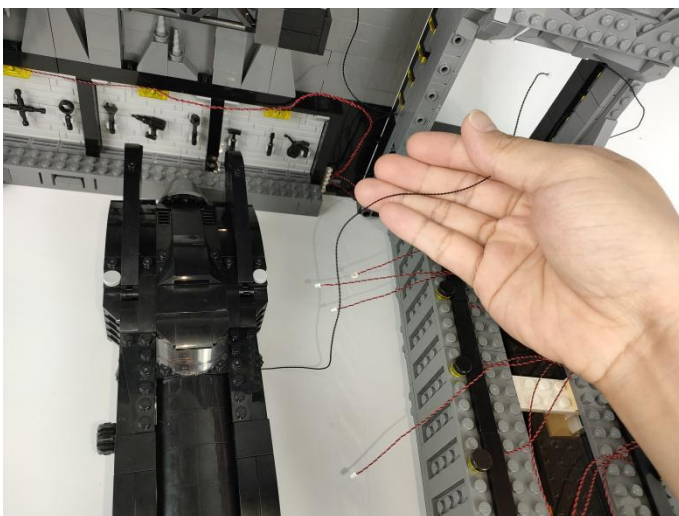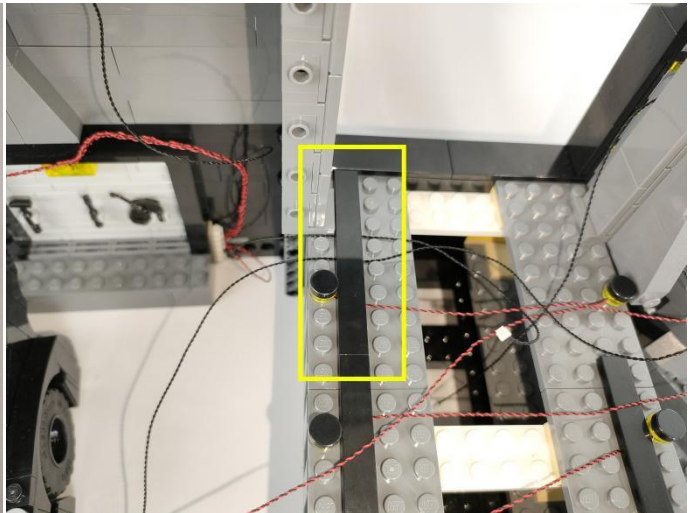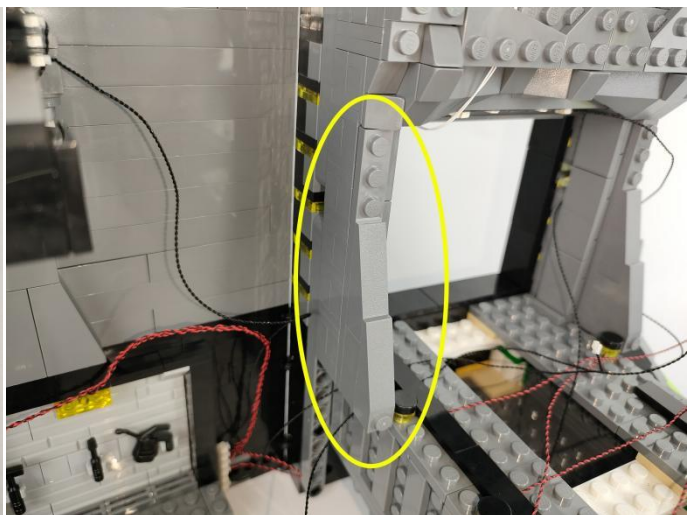
151
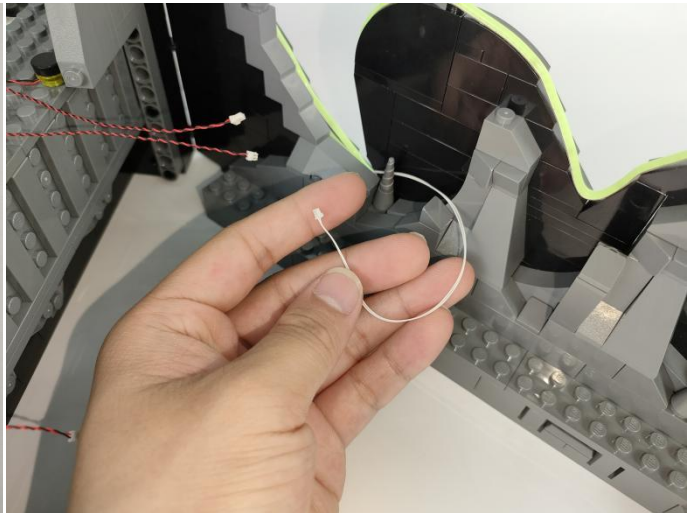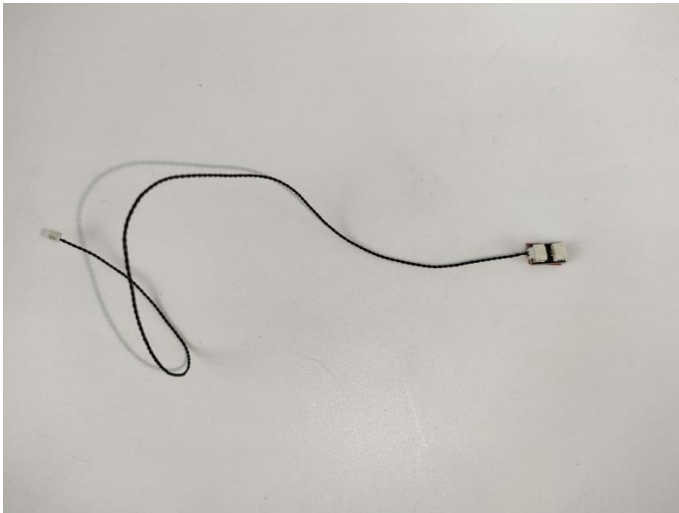
152
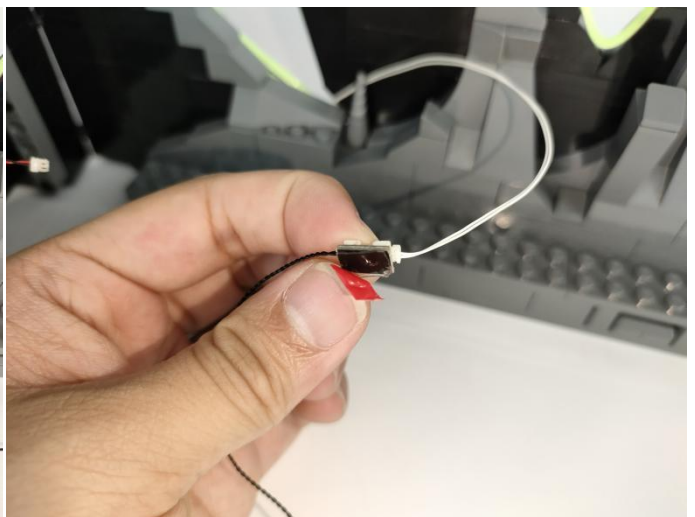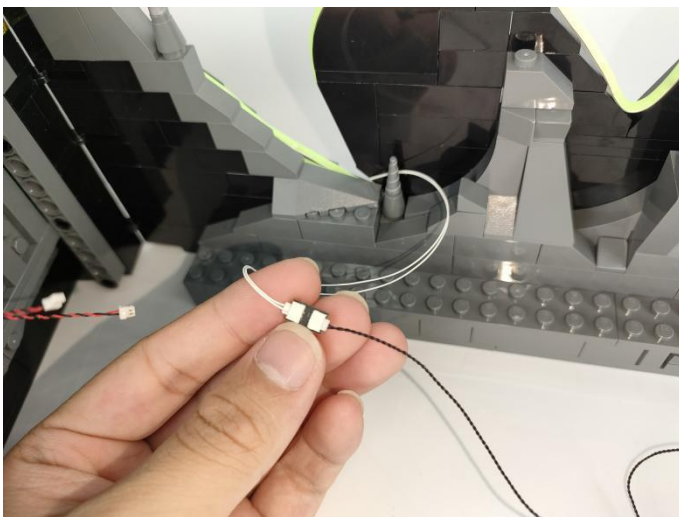
153
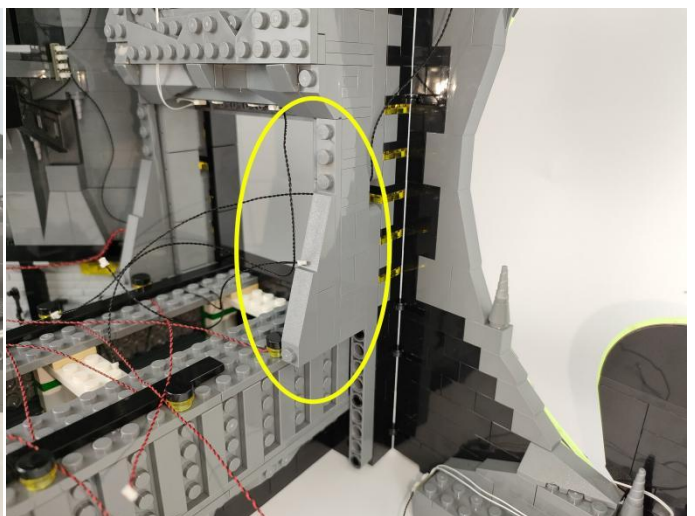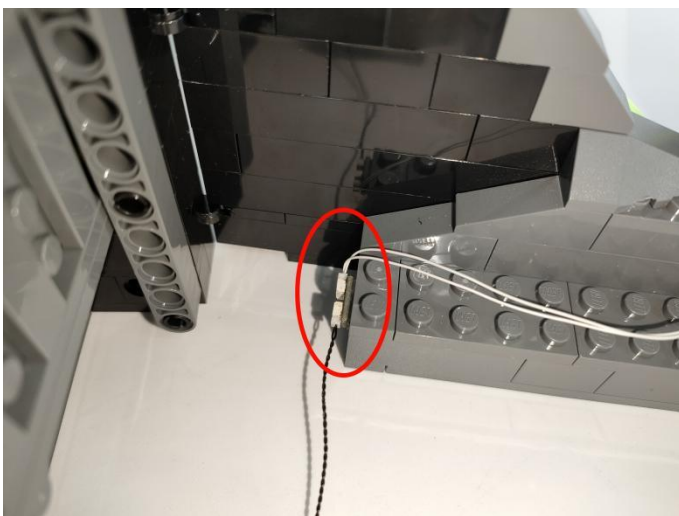
154

155

156

157

158

159

160

A012
Expansion Board

A01501
Connecting Cable 5CM

161

162

163

164

A01501
Connecting Cable 5CM

165

A012
Expansion Board

A01305
Power Supply
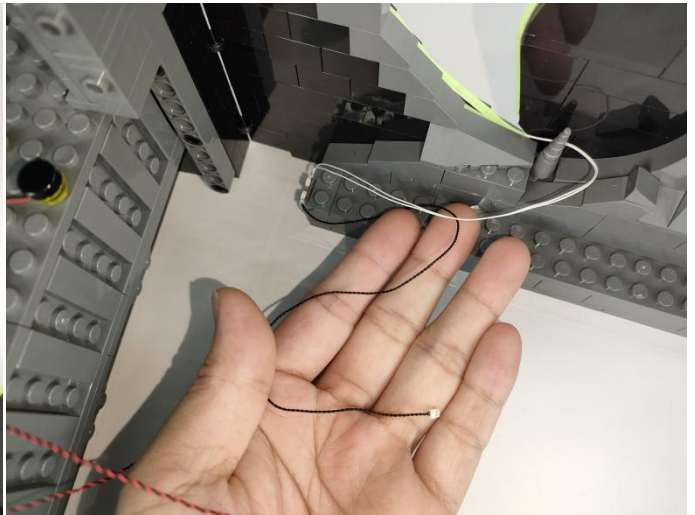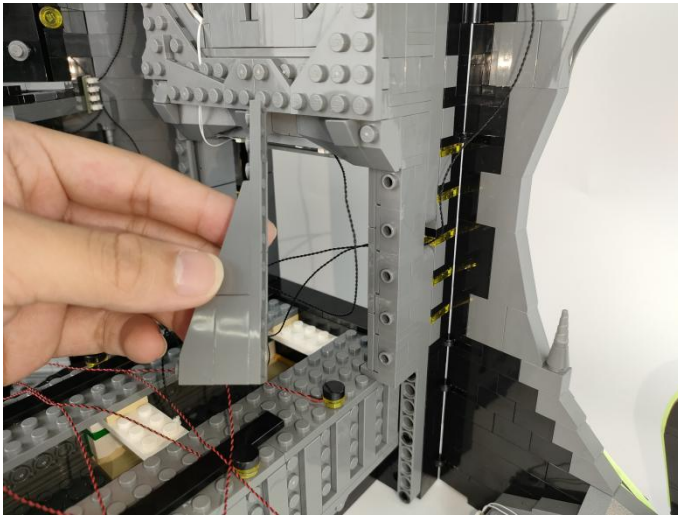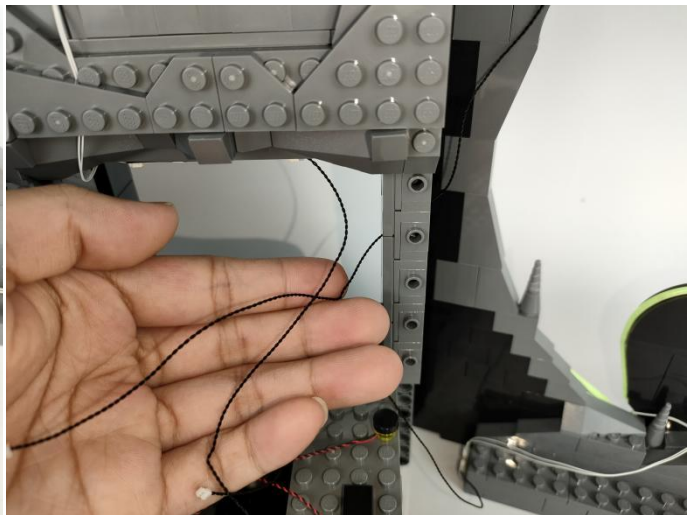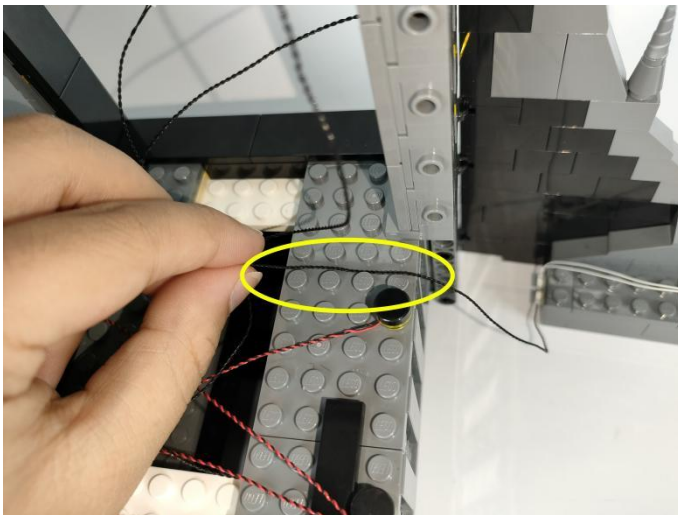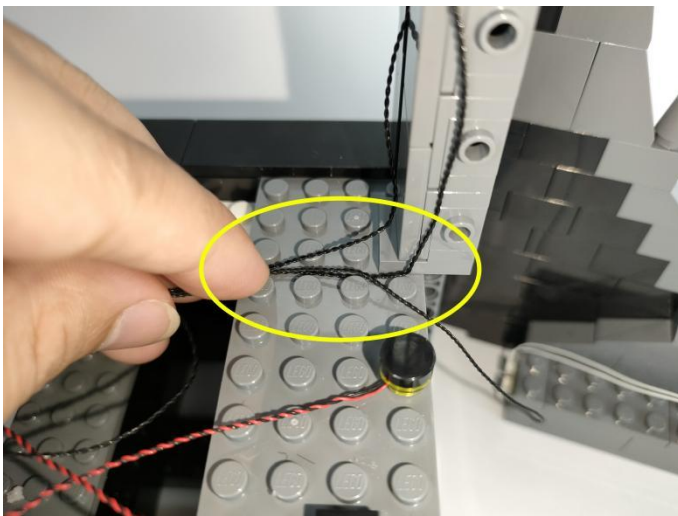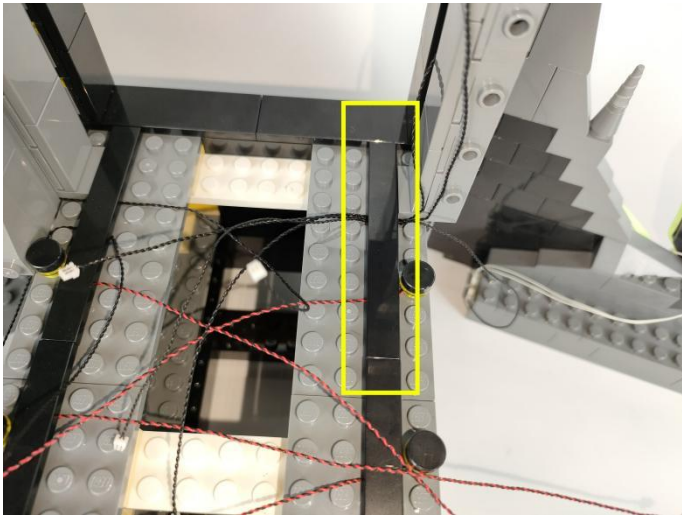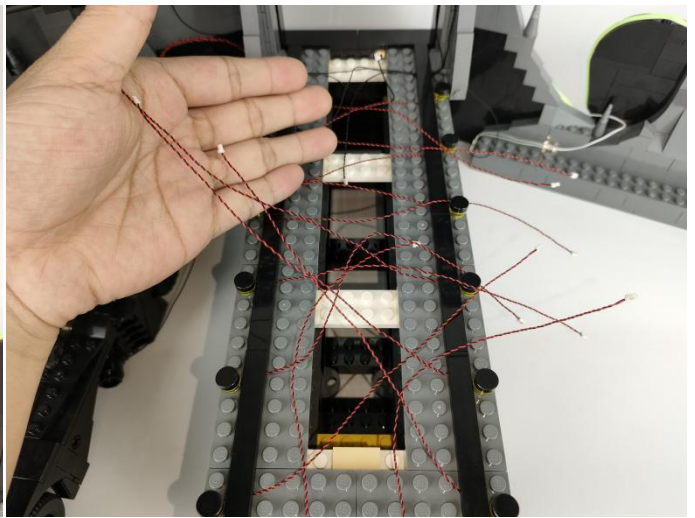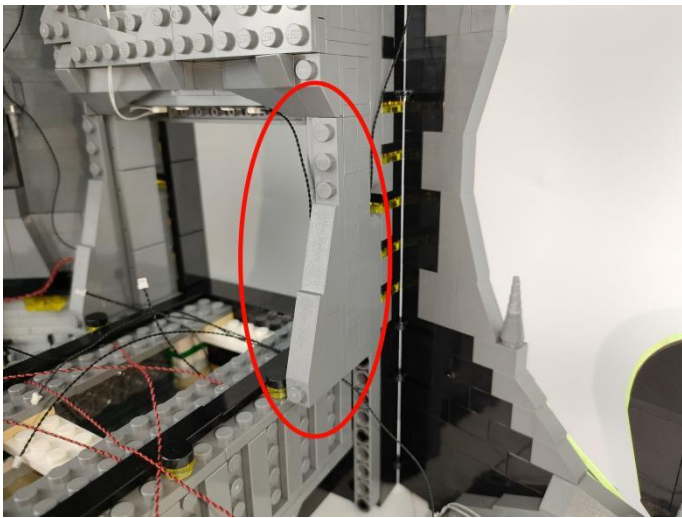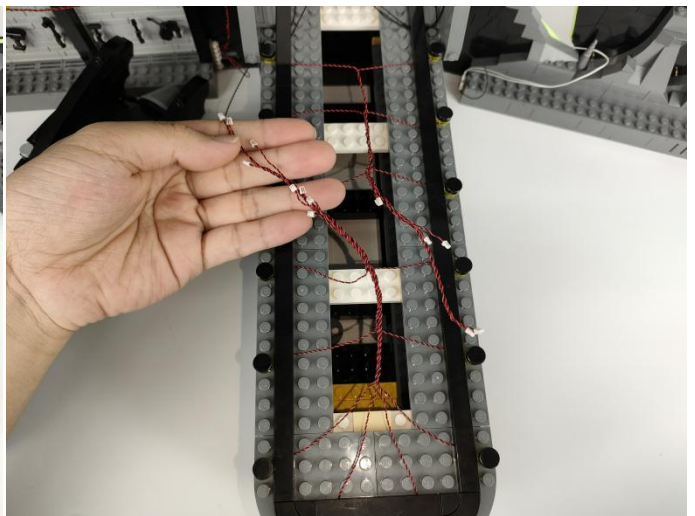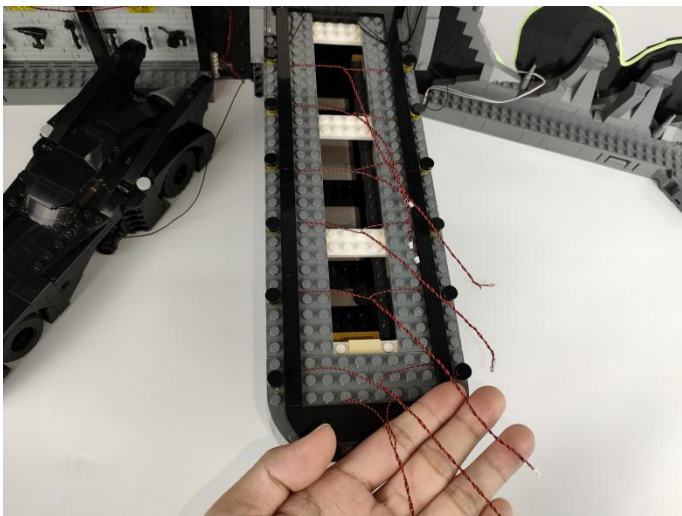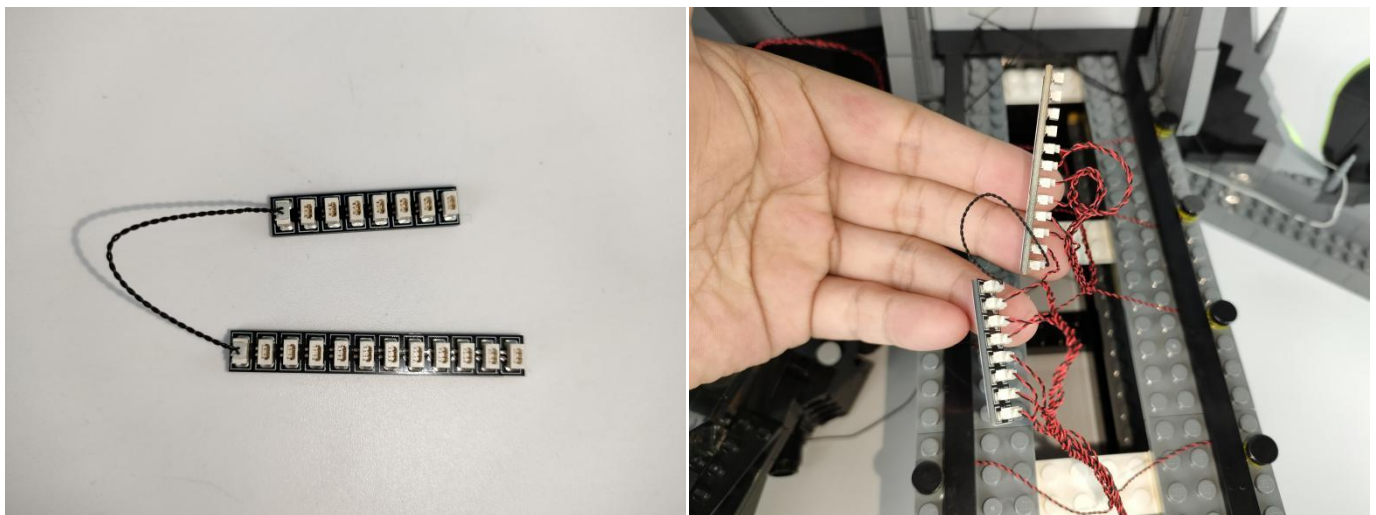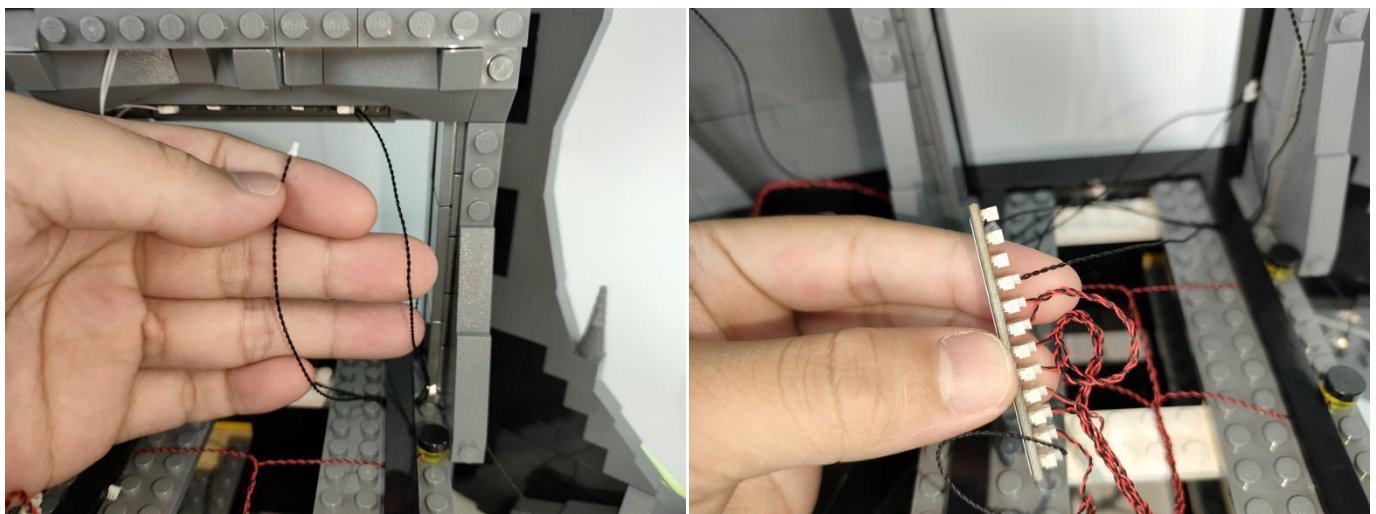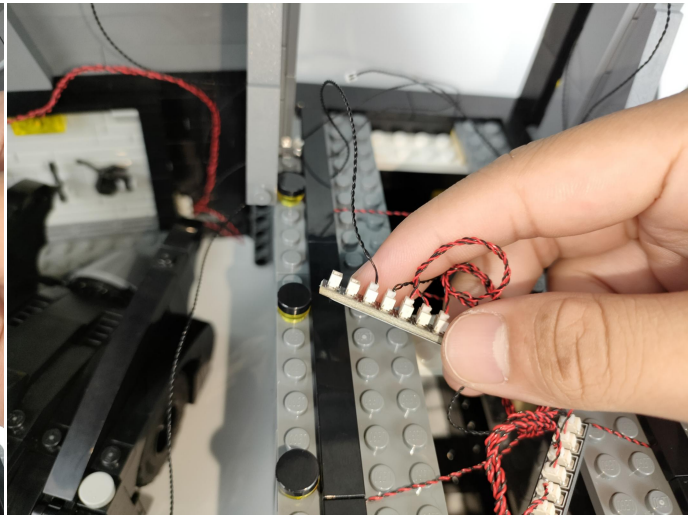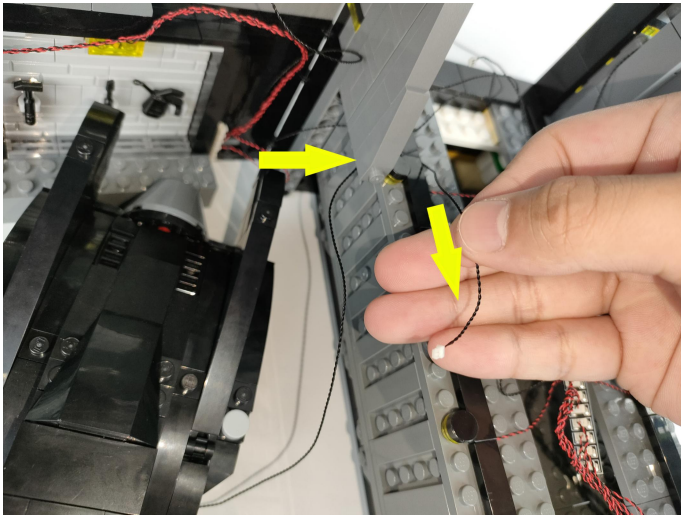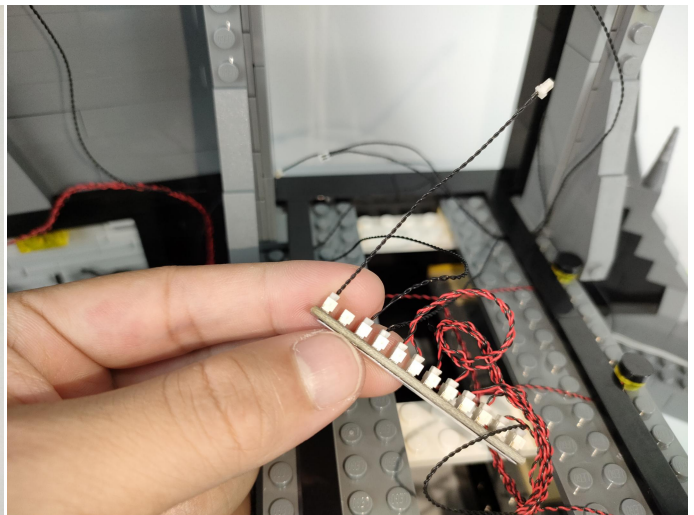
166
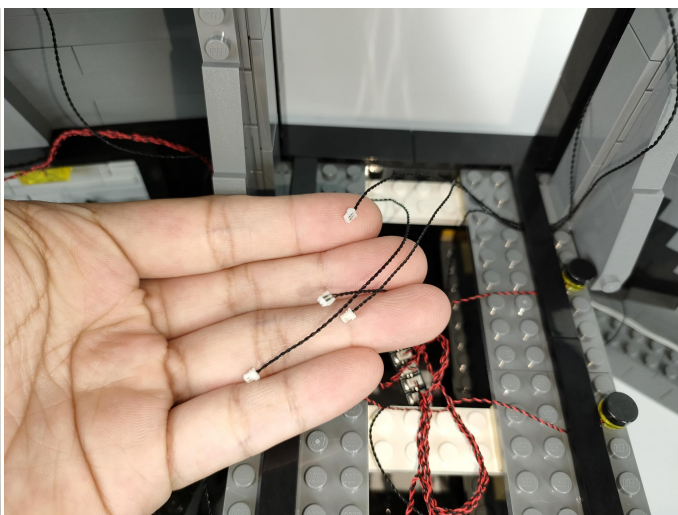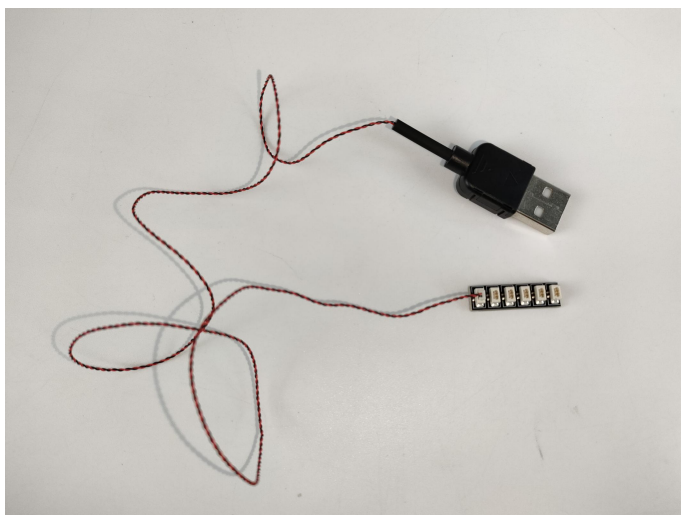
167
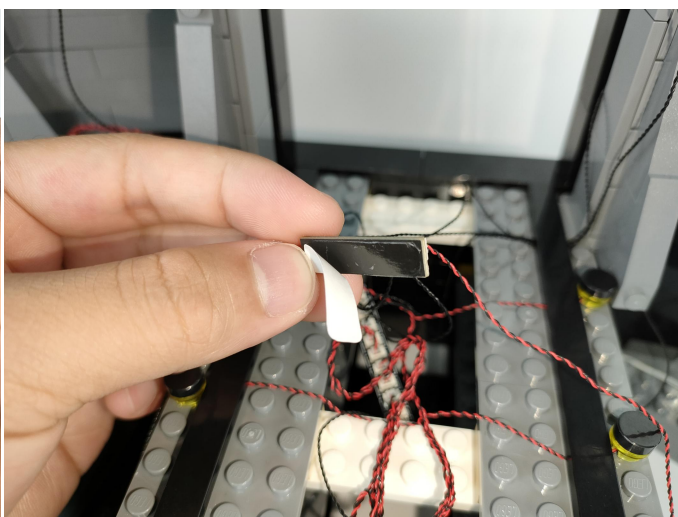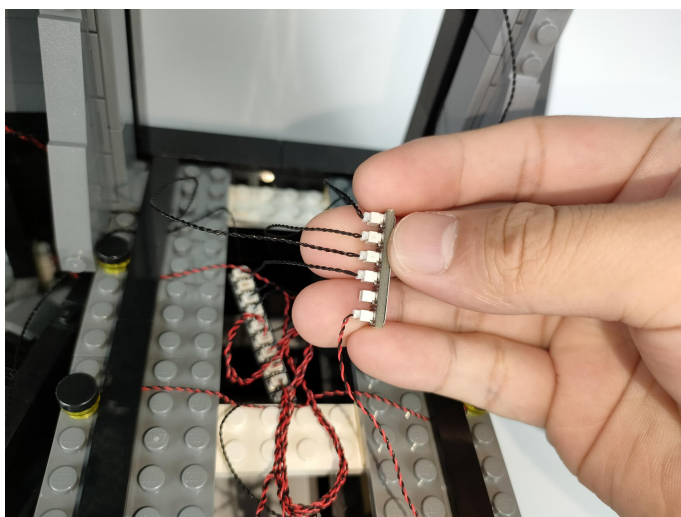
168
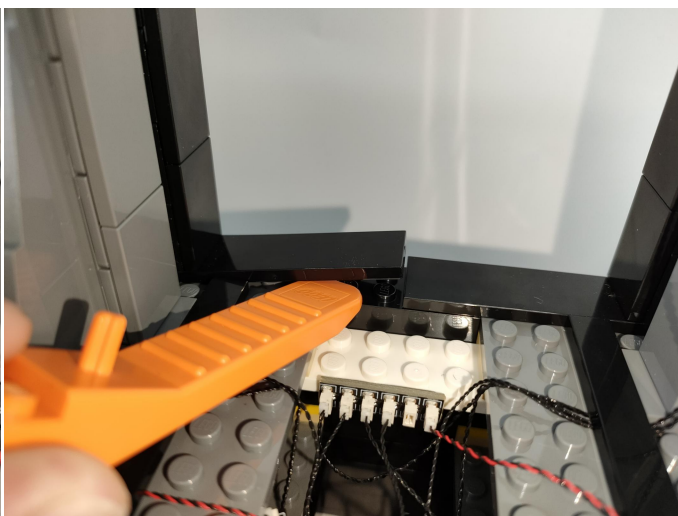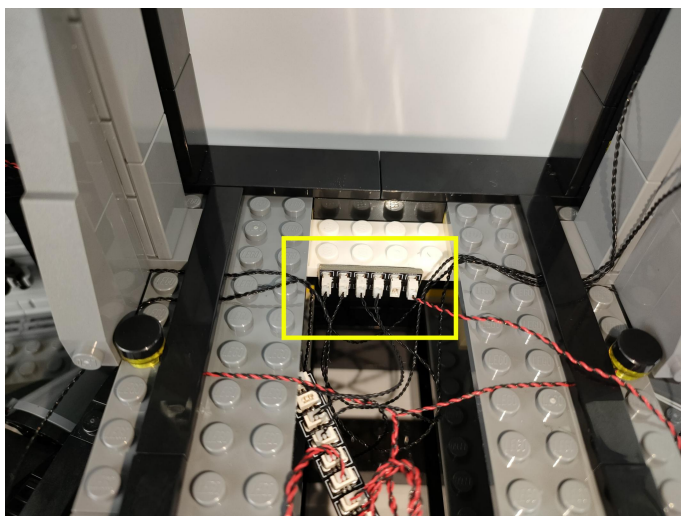
169
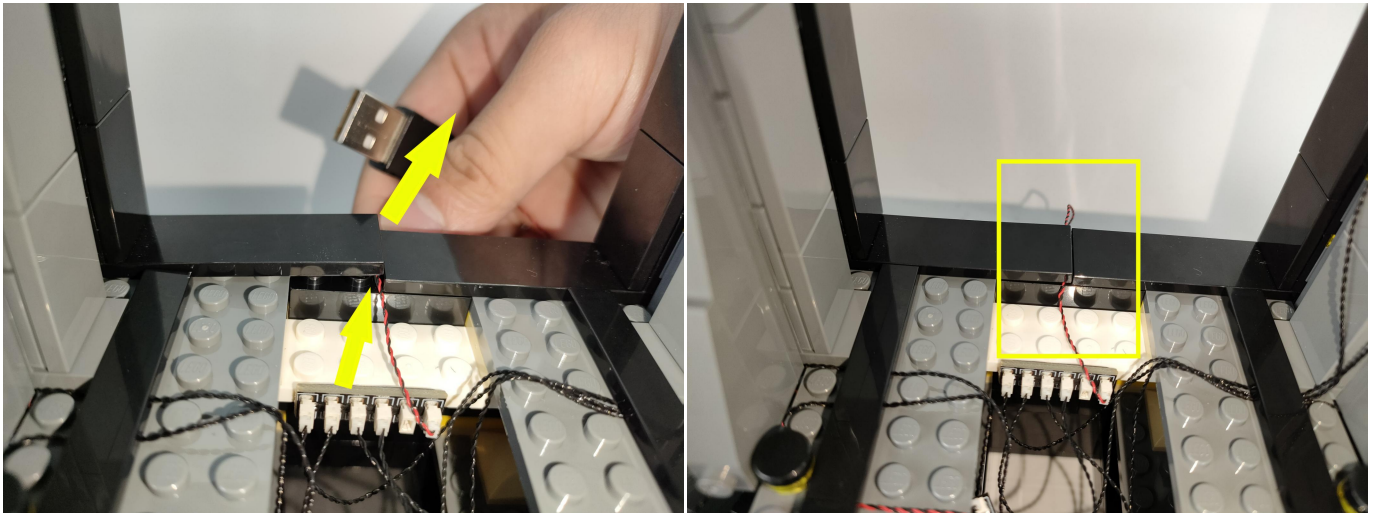
170

Music Module
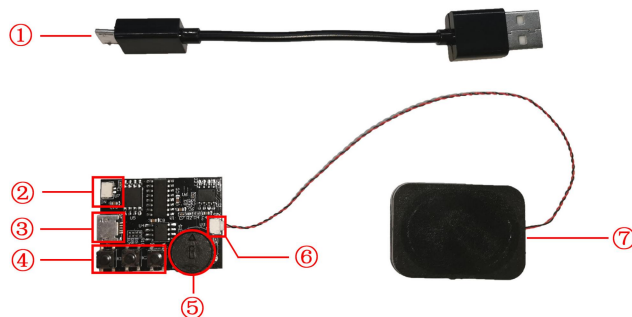
①:USB data cable is used to connect modules to the computer to replace music files.

②：The power input port is used to supply power to the module, and the voltage is 5V DC power.

③：Micro-USB port, music transmission port, it is recommended to use the music format
MP3 file, the built-in capacity of the module is 16MB.

④：The music control button, from left to right, is "previous song", "pause/play", "next song".

⑤：The volume control button, rotate button to adjust the volume .

⑥：The speaker interface.

⑦：The speaker.

This module function is similar to MP3. Imports your favorite music files into the module
through the data cable,and then switch on the module to play the stored music.Music files
can be replaced arbitrarily.

171

172

173
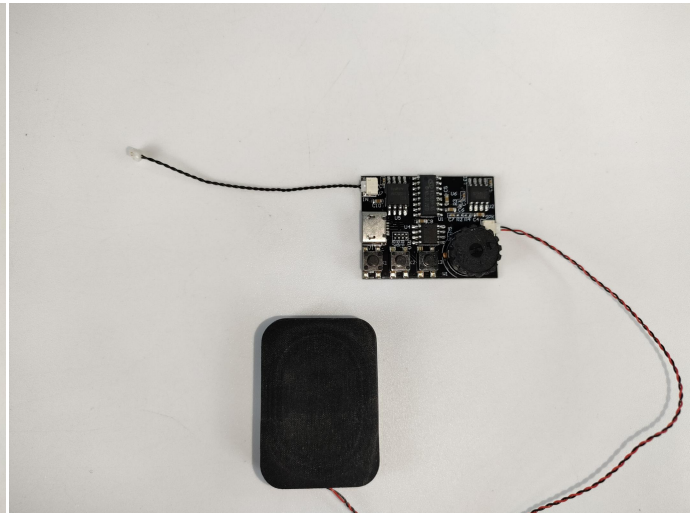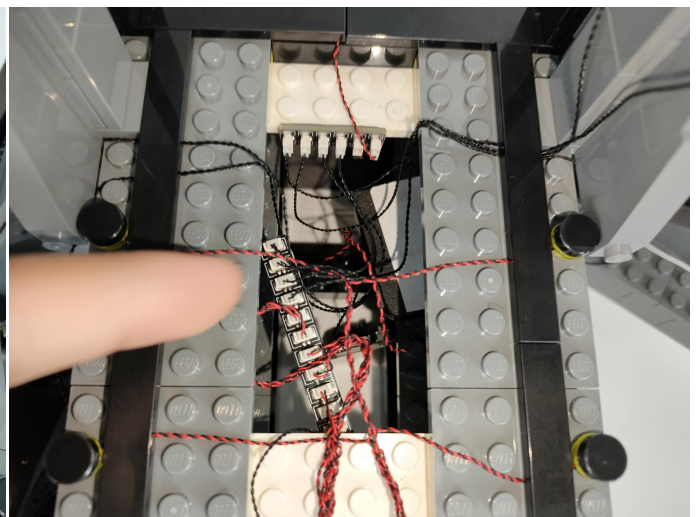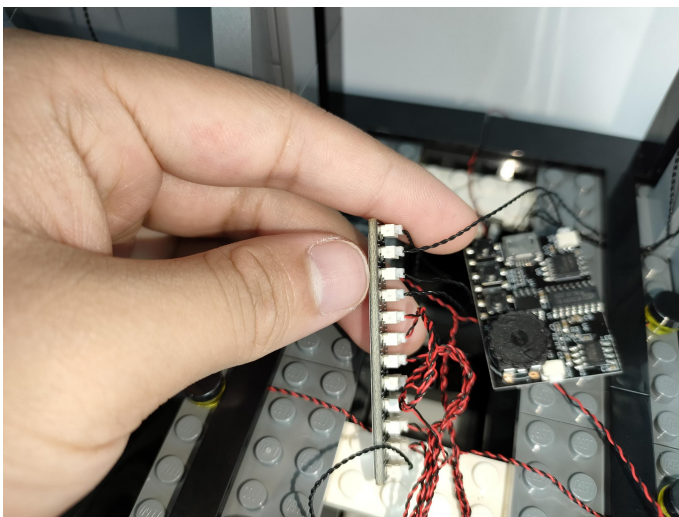
Good job, you've done all the installation steps, power it up and enjoy your work.

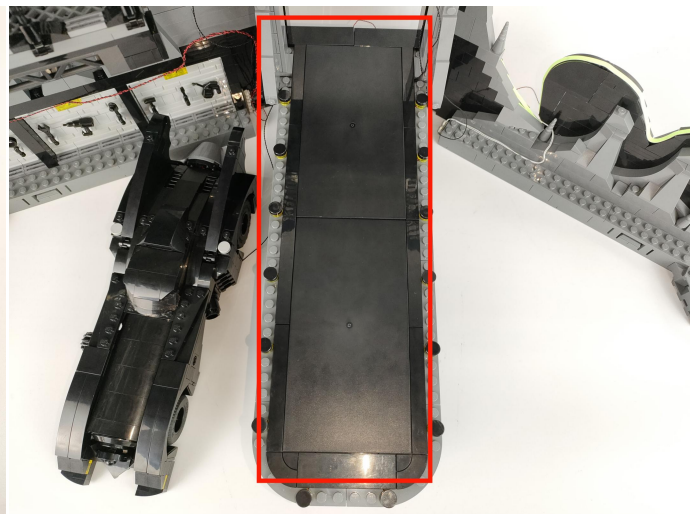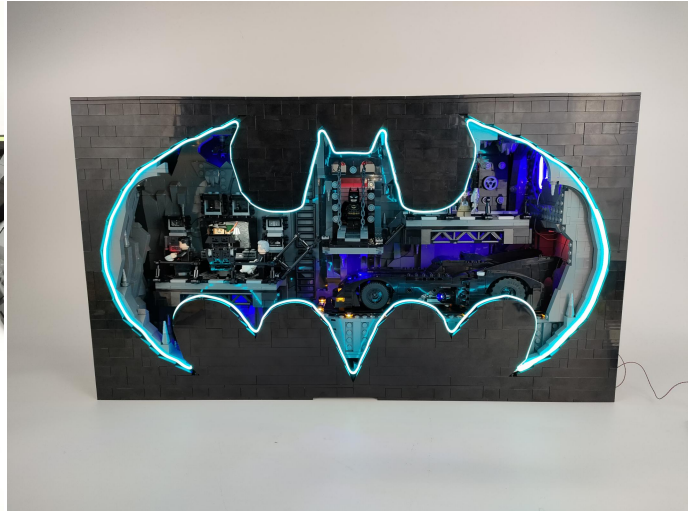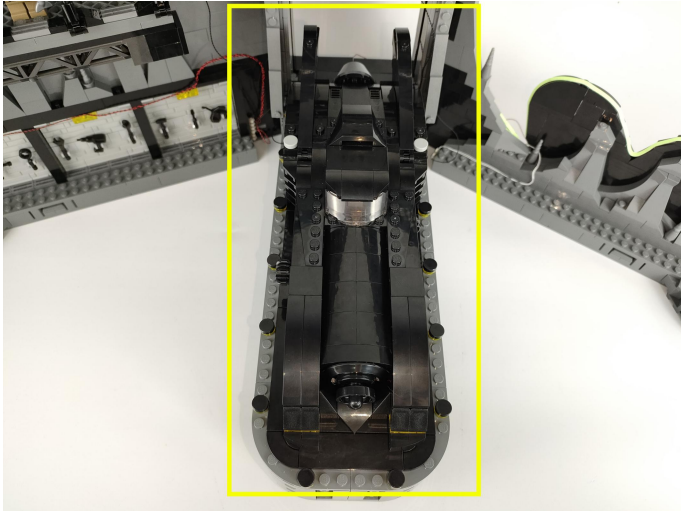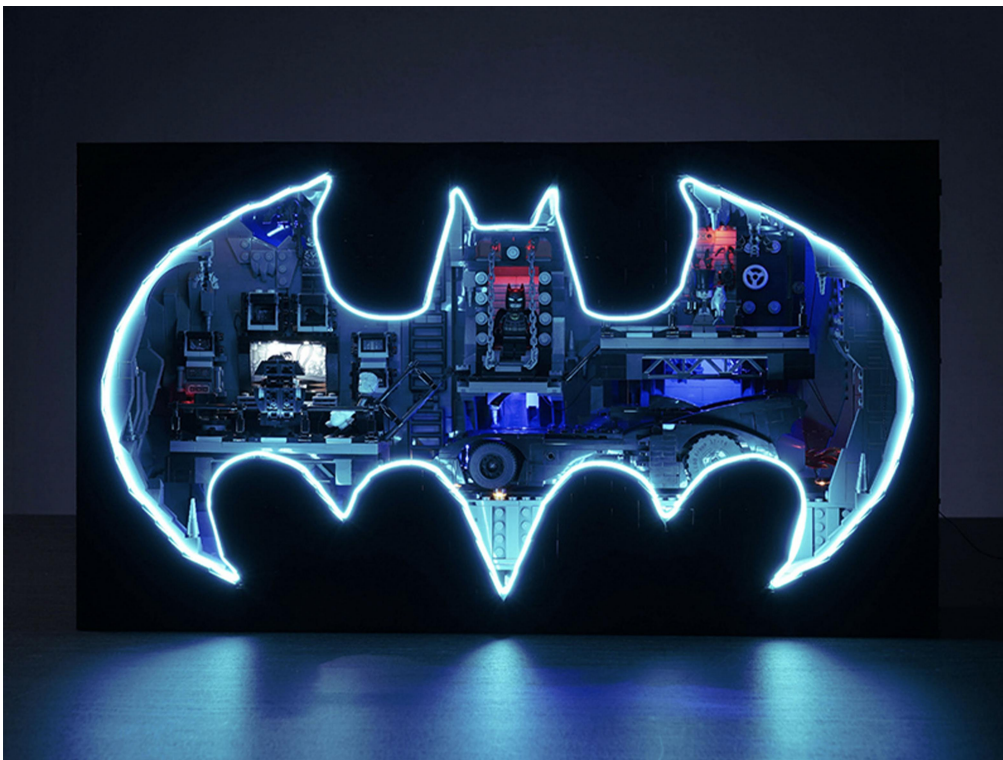
    The battery box can also power the set. If it is necessary to change the power supply , prepare three AAA batteries, install them in the battery box, turn on the switch on the battery box, remove the plug of the USB Power Cable from the socket of the expansion board,plug the plug of the battery box to the same socket in the expansion board to power the suit as well.

    THANKS