PIPER

Mission:
Piper Make Beam Break

SIDE A
Assembly
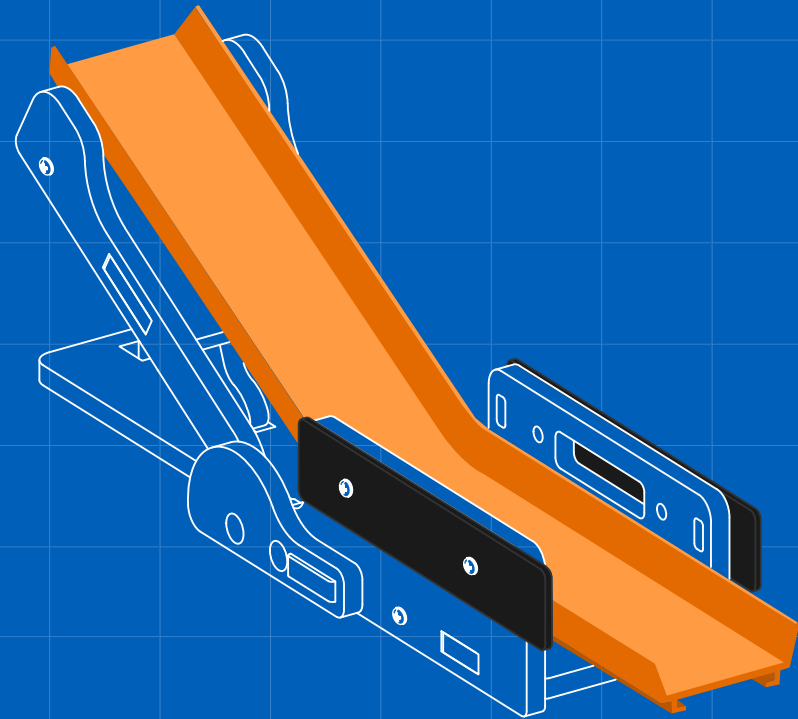
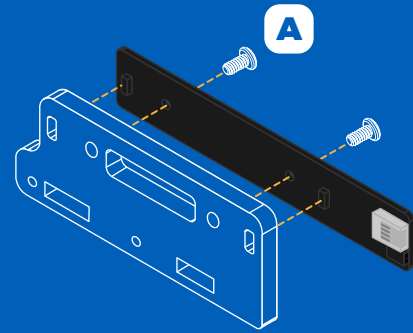## INVENTORY

1 Large Base	**2** IR Beam Sensors
2 Side Pieces	**1** Track Spacer
1 Ramp	**1** Track Connector
2 Arm Pieces	**2** Plastic Track
1 Small Base	**8** 1/2" Pan-Head Screws
1 Small Slope	**4** 1/4" Pan-Head Screws
1 Large Slope	**2** Flat-Head Screws
2 Protractors	**8** Hex Nuts
4 Gummy Foot	

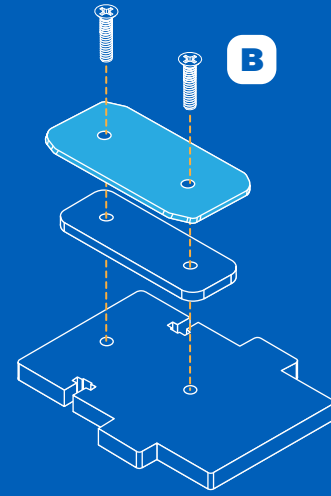**1** ●○○○○○○
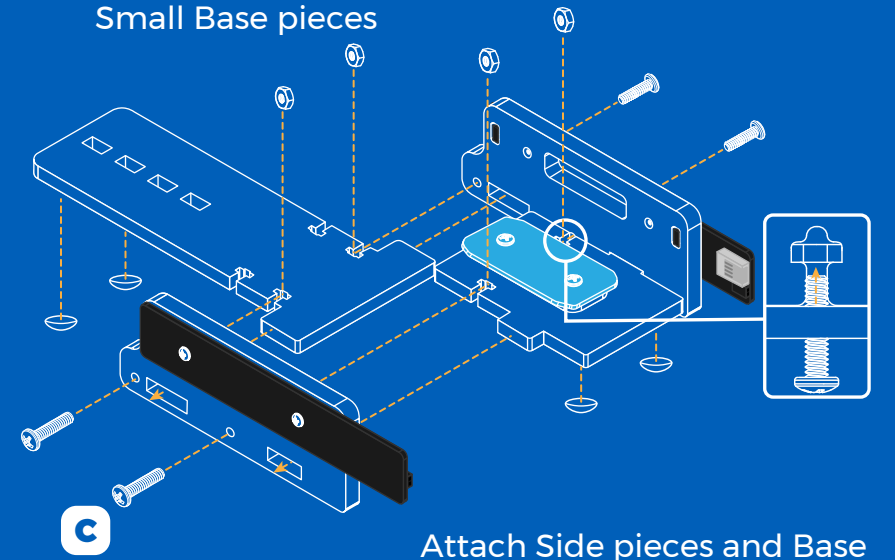Attach sensors to both side pieces with Pan-head Screws

A

2 ●●○○○○○
Attach Track Connector, Track Spacer and Small Base with Flat-head Screws

B

3 ●●●○○○○
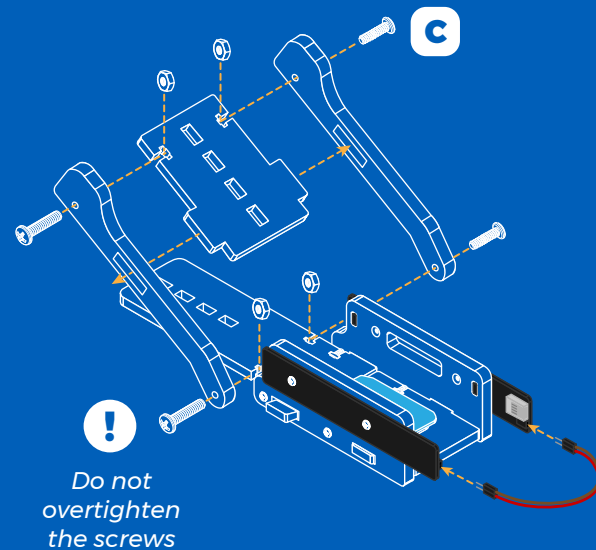Attach Gummy Feet to corners of Large and Small Base pieces

C

Attach Side pieces and Base pieces with Screws and Nuts

4 ●●●●○○○
Connect both Arm pieces to the Ramp piece with Screws and Nuts
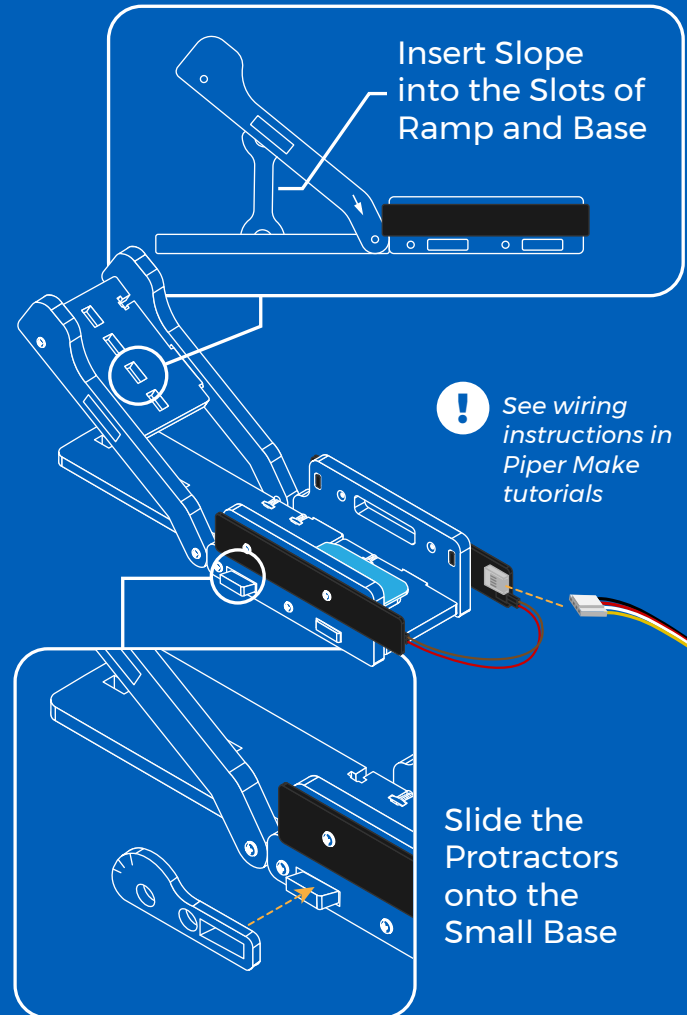
Then attatch Arms to the Large Base piece

C

! Do not overtighten the screws

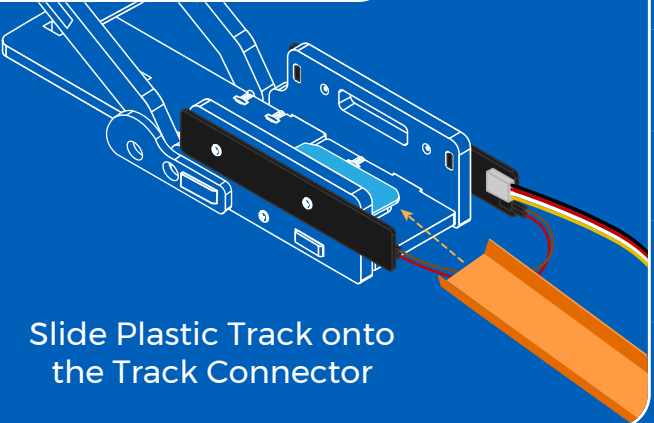Insert Pin Cable to connect IR Beam Sensor

5 ●●●●●○○
Insert Slope into the Slots of Ramp and Base
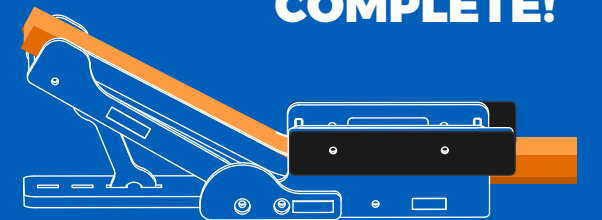
! See wiring instructions in Piper Make tutorials

Slide the Protractors onto the Small Base

6 ●●●●●●○
Slide Plastic Track onto the Track Connector

ASSEMBLY COMPLETE!

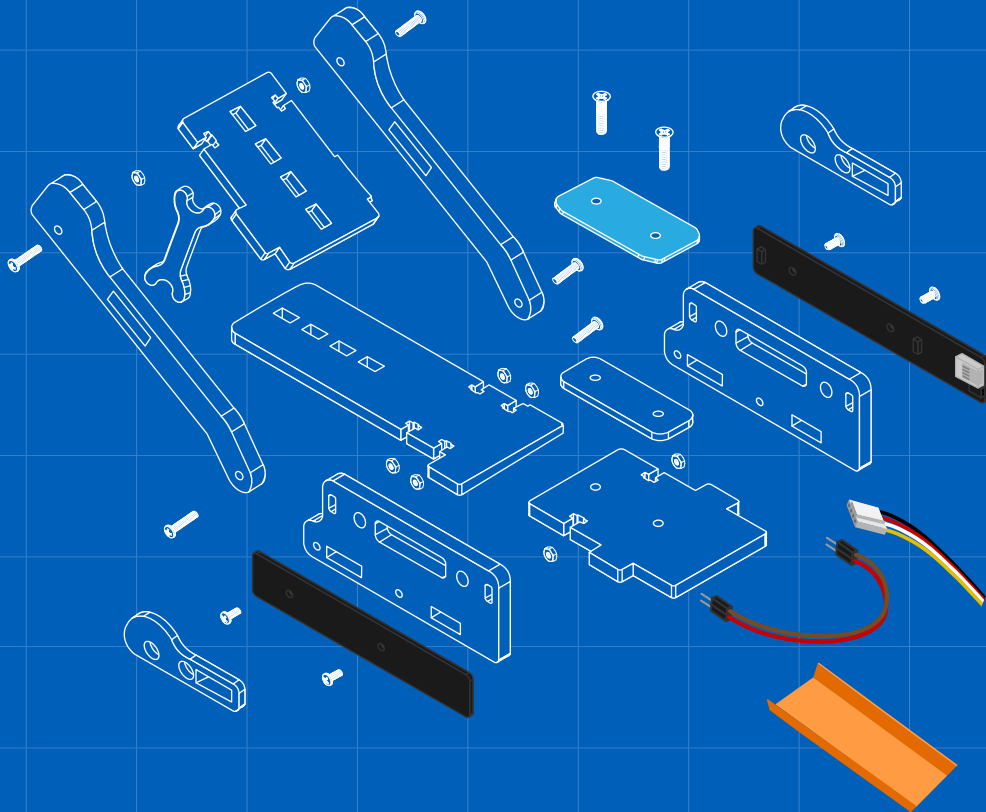Head to Piper Make to continue your mission

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Mission:

Piper Make Beam Break

SIDE B
Disassembly

INVENTORY

1 Large Base	**2** IR Beam Sensors
2 Side Pieces	**1** Track Spacer
1 Ramp	**1** Track Connector
2 Arm Pieces	**2** Plastic Track
1 Small Base	**8** 1/2" Pan-Head Screws
1 Small Slope	**4** 1/4" Pan-Head Screws
1 Large Slope	**2** Flat-Head Screws
2 Protractors	**8** Hex Nuts
4 Gummy Foot	

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1 ⬤◯◯◯◯◯

Disconnect wiring

Slide out the Plastic Track

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2 ⬤⬤◯◯◯◯

Remove Slope and Protractor Pieces

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3 ⬤⬤⬤◯◯◯

Unscew Screws to remove Arm and Ramp pieces

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4 ⬤⬤⬤⬤◯◯

Remove Screws to remove Side pieces

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5 ⬤⬤⬤⬤⬤◯

Dettach Sensors from both Side pieces by unscrewing screws

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6 ⬤⬤⬤⬤⬤⬤

Remove Screws to seperate Track Connector, Track Spacer and Small Base pieces

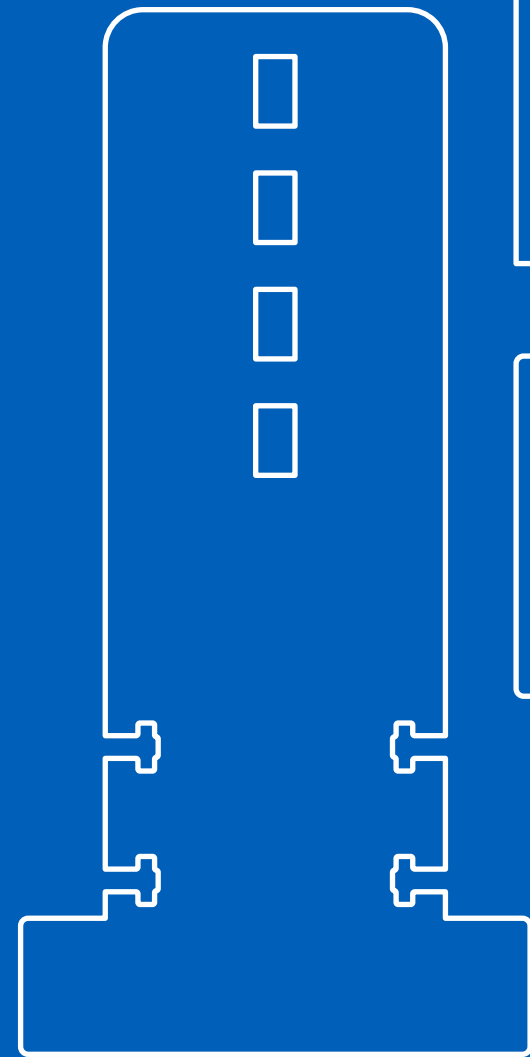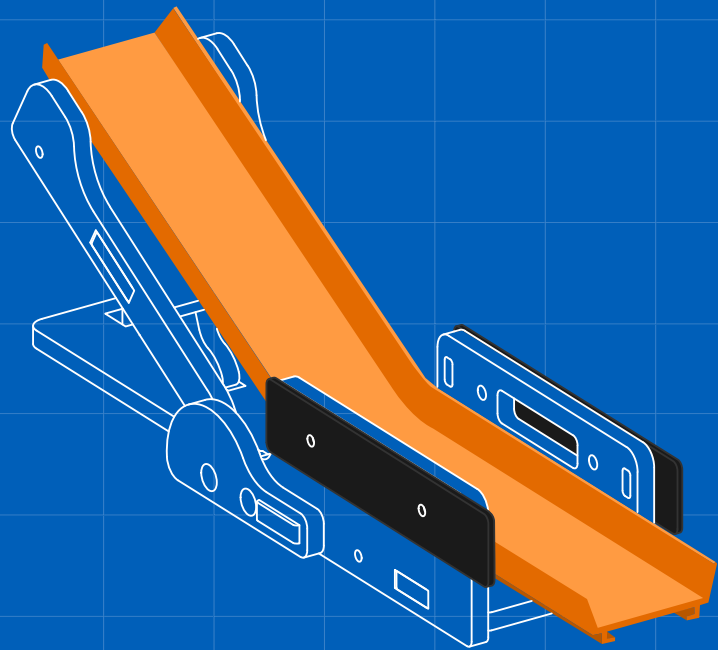---

DISASSEMBLY COMPLETE!

If not already done, place each piece on its spot on the components sheet

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Components Sheet
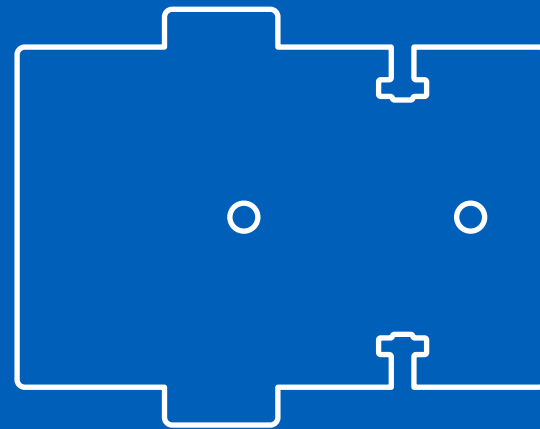
Gather and organize your supplies
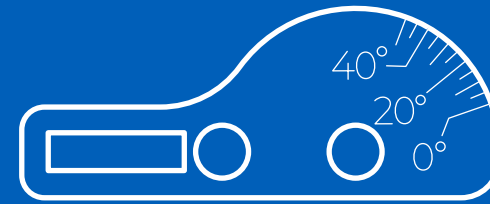
Plastic Track x 2
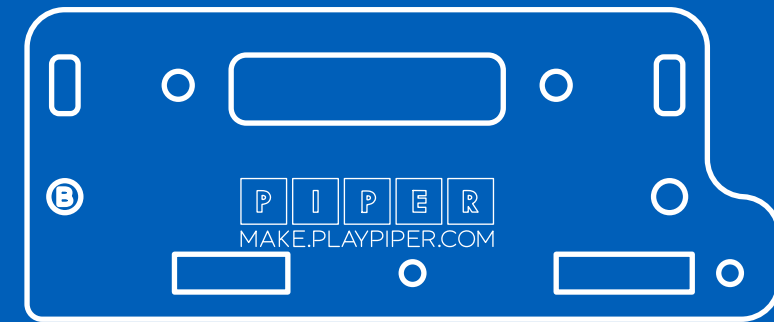
Small Base x 1

Track Spacer x 1

Track Connector x 1
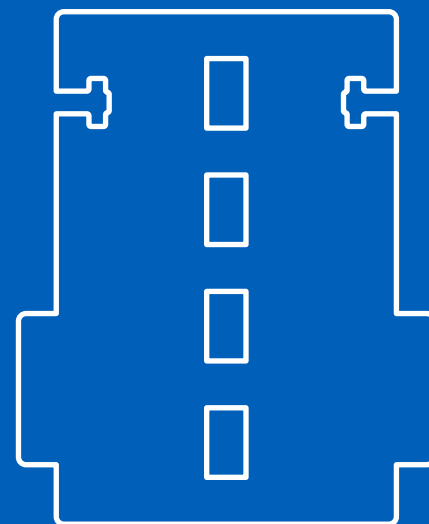
Large Slope x 1

Small Slope x 1

Large Base x 1

Protractor x 2

40°

20°

0°

Side x 2
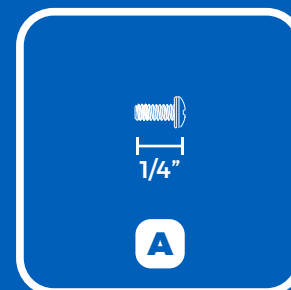
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B

Arm x 2

Ramp x 1

Do not remove once attached

Gummy Foot x 4

IR Beam Sensors x 2

A
Pan-head
Screw x 4

1/4"

B
Flat-head
Screws x 2

1/2"

C
Pan-head
Screw x 8

1/2"

Hex Nuts x 8