

FCC Part 15 Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC RF Exposure Statement

To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating in conjunction with any other antenna or transmitter.

For body worn operation, this device has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the device a minimum of 20 cm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

CAN ICES-3 (B)/NMB-3(B)

IC Statement

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de classe B est conforme à la norme NMB-003.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including

interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) L'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

RF Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20 cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Déclaration d'exposition aux radiations: Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

Do you have any questions?
Our technical support team will be glad to help you!

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Phone: 01589 713001

620379-03-130721

EXPERIMENT MANUAL

ROBOTICS

SMART MACHINES

5-IN-1 BUILDABLE DRONE

with HD CAMERA



WARNING!

Read this entire manual before use, including all of the safety rules on page 2, to familiarize yourself with the proper use of this product. Failure to operate the product correctly may result in damage to the product or personal property and may cause serious injury.



HELPFUL VIDEO!

Scan this QR code to view a video of helpful tips for using and flying your camera drone.



THAMES & KOSMOS



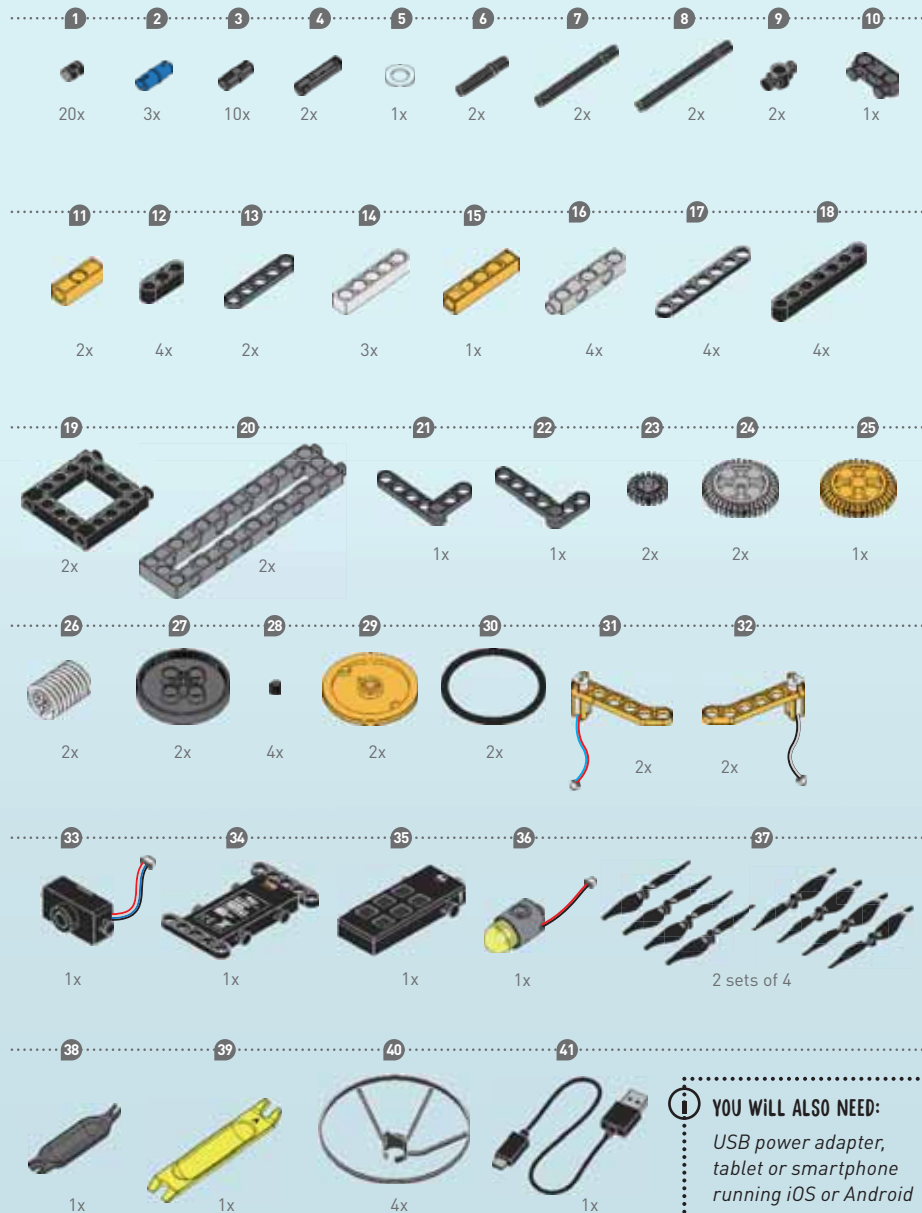
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KIT CONTENTS

Good to know!

If you are missing any parts, please contact Thames & Kosmos technical support.

What's inside your experiment kit:



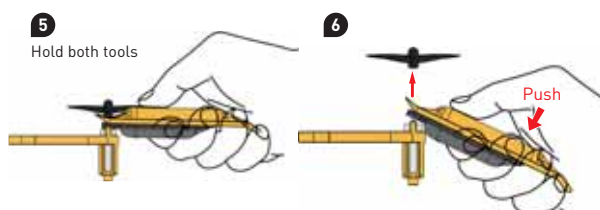
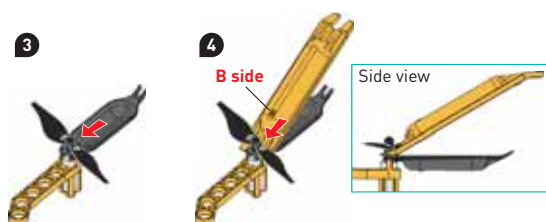
YOU WILL ALSO NEED:

USB power adapter,
tablet or smartphone
running iOS or Android

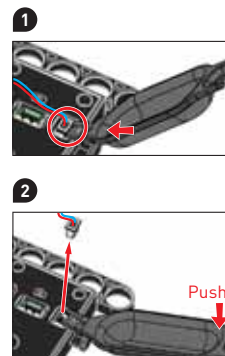
How to remove the propellers:



If the propeller is stuck, use both tools together:



How to remove the small cable plugs:



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Checklist:

✓ No.	Description	Qty.	Part No.	✓ No.	Description	Qty.	Part No.
1	Anchor pin, black	20	7344-W10-C2D	22	5x3 L-rod, left	1	7066-W10-C2S
2	Joint pin, blue	3	7413-W10-T1B	23	Small gear	2	7026-W10-D2S1
3	Connector pin, gray	10	1187-W10-E1S2	24	Medium gear	2	7408-W10-D2S
4	Long connector, gray	2	7066-W10-A1S	25	Medium spindle gear	1	7408-W10-D1Y
5	Washer	1	R12#3620	26	Worm	2	7344-W10-A1SK
6	Axle, 35 mm	2	7413-W10-O1D	27	Large annular gear	2	7066-W10-F1S
7	Axle, 60 mm	2	7413-W10-M1D	28	Mini gear	4	7066-W10-F3S
8	Axle, 70 mm	2	7061-W10-Q1D	29	Large pulley wheel	2	7344-W10-N1Y1
9	1-hole connector	2	7430-W10-B1D	30	Large O-ring	2	R12-09S
10	3-hole dual rod with pegs	1	7404-W10-B1S2	31	Motor and arm assembly, left	2	7066-W85-A1
11	3-hole cross rod	2	7026-W10-X1Y	32	Motor and arm assembly, right	2	7066-W85-A2
12	3-hole wide rounded rod	4	7404-W10-C1D	33	HD Camera	1	7066-W85-C-US
13	5-hole flat rounded rod	2	7443-W10-C1S1	34	Controller box	1	7066-W85-B
14	5-hole rod	3	7413-W10-K2SK	35	Lithium battery (3.7V)	1	7066-W85-D
15	5-hole cross rod	1	7413-W10-R1Y	36	LED light	1	7066-W85-E
16	5-hole dual rod	4	7413-W10-W1SK	37	Set of 4 propellers	2	E41#7066
17	7-hole flat rounded rod	4	7404-W10-C3D	38	Small part separator tool	1	7066-W10-F2S
18	7-hole wide rounded rod	4	7404-W10-C2D	39	Part separator tool	1	7061-W10-B1Y
19	Square frame	2	7413-W10-Q1D	40	Propeller shield ring	4	7066-W10-E1D
20	3x13 dual frame	2	7406-W10-A1S	41	Micro USB cable	1	E30#7066A
21	5x3 L-rod, right	1	7066-W10-C1S	42	Storage case (not pictured)	1	K40#7066

SAFETY INFORMATION



GENERAL WARNINGS

WARNING. Only for use by children aged 8 years and older, due to accessible electronic components. Instructions for parents or other supervising adults are included and have to be observed. Keep packaging and instructions as they contain important information.

WARNING. Not suitable for children under 3 years. Choking hazard — small parts may be swallowed or inhaled.

Store the experiment material and assembled models out of the reach of small children.

DRONE WARNINGS

**Stay away from rotating propellers and motors!
Do not touch them!**

Always maintain a visual line of sight to your drone when flying.

Always pay complete attention to the drone when flying. Do not get distracted.

When running a programmed flight path, always be ready to take control of the drone or press the emergency stop button if necessary.

We recommend using this drone indoors. If you do fly it outside, make sure the weather is calm. Do not fly the drone in wind conditions above a gentle breeze (Beaufort scale 3; 12 mph wind speed) or in temperatures outside of the range of 32 ° to 104 ° F.

Make sure that you follow all federal and local laws

for drone operation. Do not fly in “no fly zones.” You can research this online.

Make sure the flying location is clear of magnetic and radio interference, and buildings, trees, power lines, and other obstacles.

Do not fly near people or animals, or above crowds.

Do not fly at altitudes above 400 feet.

The drone might not fly well in locations more than 13,000 feet above sea level.

An optical flow sensor on the bottom of the drone helps the drone orient itself. This sensor doesn't work well on all surfaces, which may cause flying errors. Shiny, reflective, or wet surfaces, or surfaces with small repeating patterns, may cause problems with flight.

When the battery gets low, land the drone in a safe location and recharge it.

When flying, the battery charge lasts for about eight to ten minutes and then it needs to be recharged. It takes 2 to 3 hours to charge the battery (until the red light on the battery turns off)

The drone weighs less than 0.55 pounds (250 grams) and therefore does not need to be registered.

Do not use if any of the parts are worn, chipped, or damaged.

Make sure that the propellers are securely mounted onto the motors before use.

Safety for Experiments with Batteries

»» To operate the models, you will need one lithium battery (3.7V) which is included in the kit.

»» The supply terminals are not to be short-circuited. A short circuit can cause the wires to overheat and the batteries to explode.

»» Different types of batteries or new and used batteries are not to be mixed.

»» Batteries are to be inserted with the correct polarity. See page 8.

»» Rechargeable batteries are only to be charged under adult supervision.

»» Dispose of used batteries in accordance with environmental provisions, not in the household trash.

»» Be sure not to bring batteries into contact with coins, keys, or other metal objects.

»» Avoid deforming the batteries.

As all of the experiments use batteries, have an adult check the experiments or models before use to make sure they are assembled properly. Always operate the motorized models under adult supervision.

DC Power Supply (Not Included)

A USB power adapter is required to charge the lithium battery.

»» The transformer or a power supply used with the toy shall be regularly examined for damage to the supply cord, plug, enclosure or other parts, and in the event of damage, it shall not be used until the damage has been repaired.

»» The toy shall only be used with a transformer for toys or a power supply for toys.

»» The transformer is not a toy.

Notes on Disposal of Electrical and Electronic Components

The electronic components of this product are recyclable. For the sake of the environment, do not throw them into the household trash at the end of their lifespan. They must be delivered to a collection location for electronic waste, as indicated by the following symbol:



Please contact your local authorities for the appropriate disposal location.

IMPORTANT INFORMATION

HELPFUL VIDEO!
Scan this QR code to view a video of helpful tips for using and flying your camera drone.



Dear parents and adults,

Children want to explore, understand, and create new things. They want to try new things and they want to do this on their own. They want to gain knowledge! They can do all of this with Thames & Kosmos experiment kits. With every single experiment, they grow smarter and more knowledgeable.

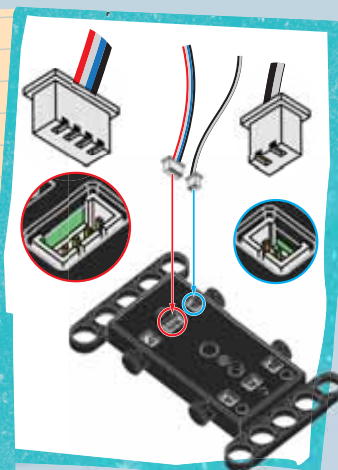
With this experiment kit, you and your child can work together to build an experimental robotic drone and other camera-enabled robotic devices. Flying toys and drones have a unique set of safety precautions that you must follow to ensure that no harm comes to people and animals — and nothing else is damaged — during use. Before building and experimenting, read the instructions together with your child and discuss the safety instructions. Support your child with advice and a helping hand,

especially during tricky assembly steps. You absolutely must supervise your child during all drone flights. Before flying, make sure the model is securely assembled and that you have chosen a suitable location for flying, in which drone flying is allowed. The drone is primarily meant for indoor use, but if you do fly it outside, make sure that it's not windy. We hope you and your child have a lot of fun building and experimenting with the drone and other robotic models in this kit.

★ GENERAL TIPS

USE THE PART SEPARATOR TOOLS TO SEPARATE PARTS THAT ARE DIFFICULT TO SEPARATE WITH JUST YOUR FINGERS. THE SMALLER GRAY TOOL IS USED TO REMOVE THE MINI GEARS AND PROPELLERS FROM THE MOTOR SHAFTS. THE LARGER YELLOW TOOL IS USED TO PRY APART LARGER PARTS, LIKE ANCHOR PINS AND RODS.

WHEN PLUGGING THE CABLES INTO THE SOCKETS, PAY CLOSE ATTENTION TO THE DIRECTION OF THE PINS INSIDE THE SOCKETS. THE PLUGS CAN ONLY BE INSERTED IN ONE DIRECTION.





*Say
Cheese!*

A Robotic Eye in the Sky

A **quadcopter** is a helicopter with four rotors. A **rotor** is a propeller that is spun around by a motor on a shaft. The four rotors in a quadcopter work together to allow it to hover and move through the air. By increasing or decreasing the speed of some or all of the rotors, the quadcopter can move in any direction. A quadcopter is a robotic device because it requires a central processing unit and sensors to control the speed of its motors to stay balanced and move through the air. Because they can hover in one spot and move around in a precise way, quadcopters are perfect for carrying cameras to take aerial photos and videos.

DOWNLOADING AND INSTALLING THE APP

To control and program the drone and other robots in this kit, you will need a free app. You can download the app for iOS devices from the iOS App Store, or for Android devices from Google Play.

For device requirements, see the information section on the app's download pages.

To get the app:

1. Scan the QR code to the right to take you to the product page for this kit (or search for the "Robotics Smart Machines Drone app").
2. On the product page, scroll down until you see the downloads section containing the app icon. Follow the links for the correct app store based on your device.
3. Follow the steps on the app download page to download and install the app on your device.
4. Open the app and the main menu will appear.



Robotics: Drone app icon



Scan this QR code to visit the product web page to find links to the app.



ESTABLISHING A WI-FI CONNECTION

The app communicates with the robot (the drone) via a Wi-Fi connection. After you have assembled your robot (pages 8 and on), follow these steps to connect it to the app:

1. Make sure the robot is powered on and was recently charged.
2. Go to the Wi-Fi (or wireless) settings on your device (tablet or smartphone).
3. Look for the network named "Drone-" followed by some numbers. This is your robot's unique ID number. Select this network to connect to your robot.
4. If you don't see the network, power down your device and the robot, remove and replug in the camera wire, and turn the device and the robot back on.



TROUBLESHOOTING THE WI-FI CONNECTION

If the wireless connection isn't working:

- Make sure the battery is fully charged and the robot is turned on (the LED light is blinking).
- Make sure Wi-Fi is enabled on your device and that your smart device satisfies the device requirements on the app download page.
- Try restarting the app, the device, and/or the robot.
- Try disconnecting and reconnecting the camera wire and/or the battery to reset the robot.
- Visit the tech support section of thamesandkosmos.com
- Contact our tech support team. (See back cover.)

USING THE APP

Here is an overview of the controls in drone remote control mode. Use this mode with the drone only. Read the safety rules on page 2 and the flying instructions on page 11.

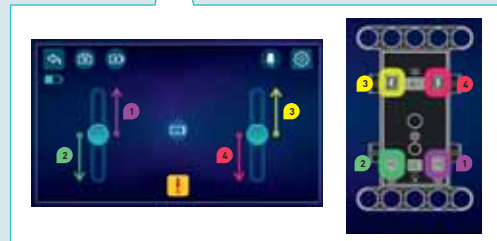
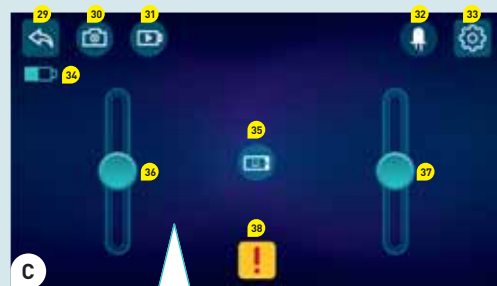
1. Return to main menu
2. Take photo
3. Take video
4. Motion control: Steer the drone by moving your smart device
5. Flight speed setting: Set the speed at which the drone moves.
6. 360 flip: The drone will do a somersault in the air. Flight speed must be set to medium or fast.
7. Track flight route: Draw a path in the app for your drone to follow.
8. LED status: Controls the light on the drone
9. Setup menu:
 10. Rotate screen
 11. Split screen (helpful for VR viewing)
 12. Reset the drone's balance
 13. Show/hide remote control interface

Drone remote controls (B):

14. Rotate counterclockwise
15. Rotate clockwise
16. Go up (away from floor)
17. Go down (toward floor)
18. Auto take off: Press this when you want your drone to take off and hover
19. Selfie mode: Speak the voice command "photo" and the drone will take a picture
20. Auto landing: Press this when you want your drone to lower itself back to the floor
21. Go left
22. Go right
23. Go forward
24. Go backward
25. Rotation (yaw) trim: If your drone keeps turning to one side, use this to compensate
26. Emergency stop
27. Left/right trim: If your drone keeps drifting to one side, use this to compensate
28. Forward/backward trim: Same as left/right trim, but on the forward/backward axis

Remote controls for the other models (C): Use these controls to power the motors for the other models you can build in this kit.

Find your photos and videos in the **media** folder (D).



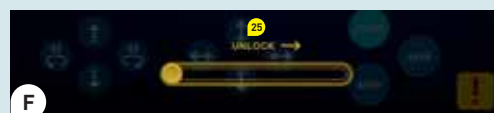
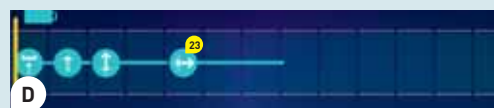
PROGRAMMING THE DRONE WITH THE APP

You can program your drone to follow a predetermined set of instructions in the **drone programming mode**. Here's an overview of the controls in this mode:

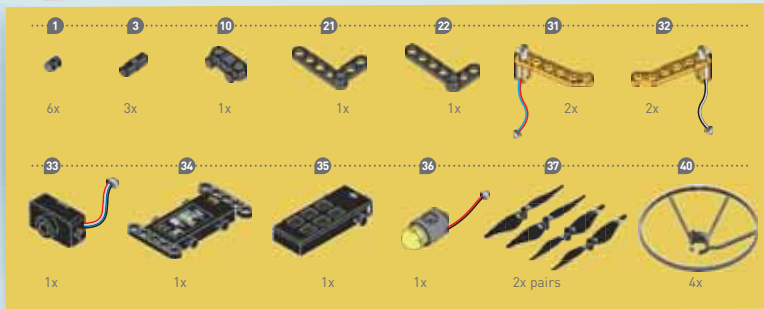
1. Return to main menu
 2. Take photo: When the program is running, you decide when the drone takes a photo by pressing this button.
 3. Take video: Manually start and stop the video capture when the program is running.
 4. Program timeline: This is where the active program commands are sequenced in order from left to right.
 5. Change the LED status
 6. Emergency stop
- Program commands:**
7. Rotate counterclockwise 90 degrees
 8. Rotate clockwise 90 degrees
 9. Go up half a meter (about 1.5 feet)
 10. Go down half a meter
 11. Go left half a meter
 12. Go right half a meter
 13. Go forward half a meter
 14. Go backward half a meter
 15. Start (run) the program
 16. Stop the program
 17. Save the program. Saved programs can be accessed via the **program menu** (20).
 18. New command steps are entered into the blank spaces.

Here's how to write an example program:

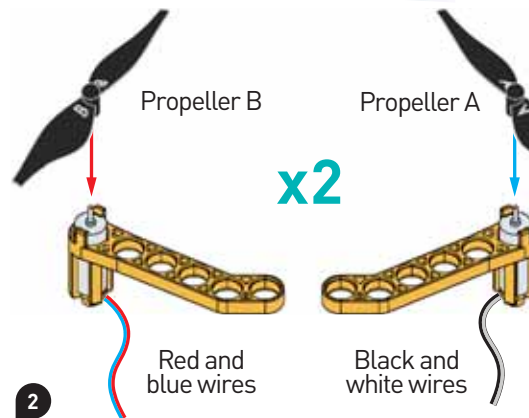
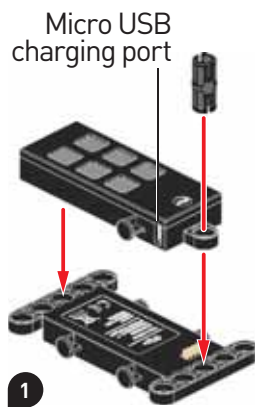
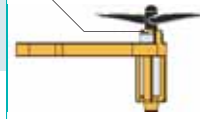
- A. In programming mode, the program always starts with the **take off** command (19).
- B. Press the **go up** button to enter a command into the program that will tell the drone to go up half a meter (21).
- C. Add a **go forward** command (23).
- D. Add a **go right** command (24).
- E. Add a **rotate clockwise** command (25).
- F. After tapping **start** to run a program, you need to swipe the **unlock bar** to confirm that you want to run the program and it is safe to do so. Make sure you follow all of the safety rules on page 2 and the general flying instructions on page 11.



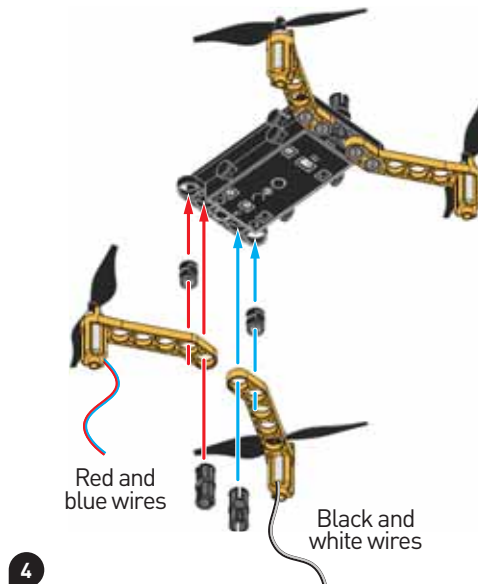
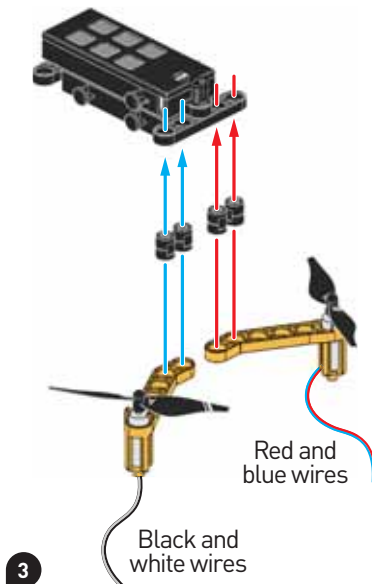
CAMERA QUADCOPTER DRONE ASSEMBLY

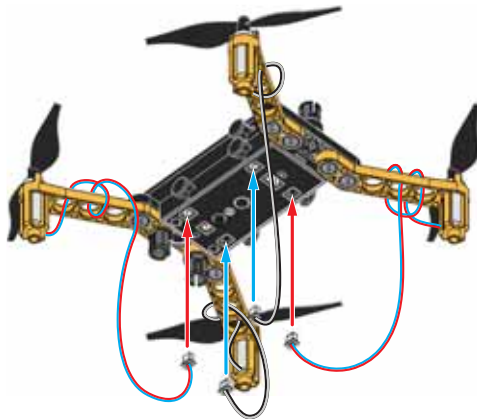


Leave a small gap between each propeller and motor.



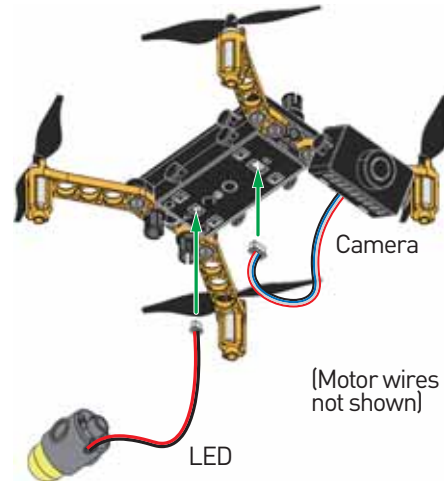
Note: There are white lines on the A propellers. Make sure you put the propellers in the right spots.





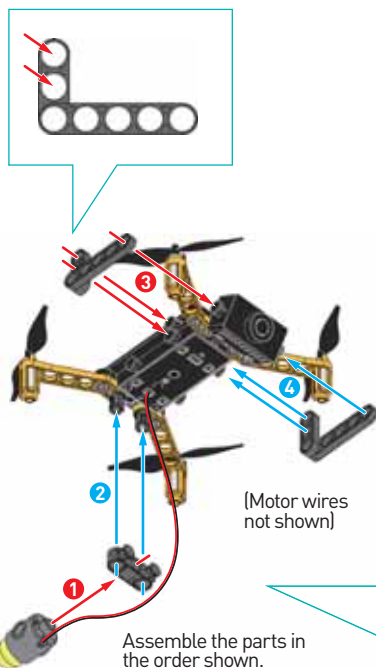
Guide the motor cables through the holes in the motor arms to prevent the cables from touching the ground and getting caught on things.

5



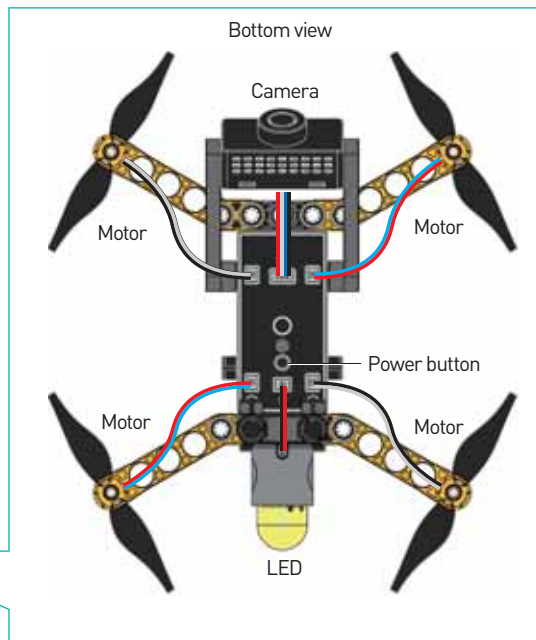
Note: Remove the clear protective film from the camera lens.

6

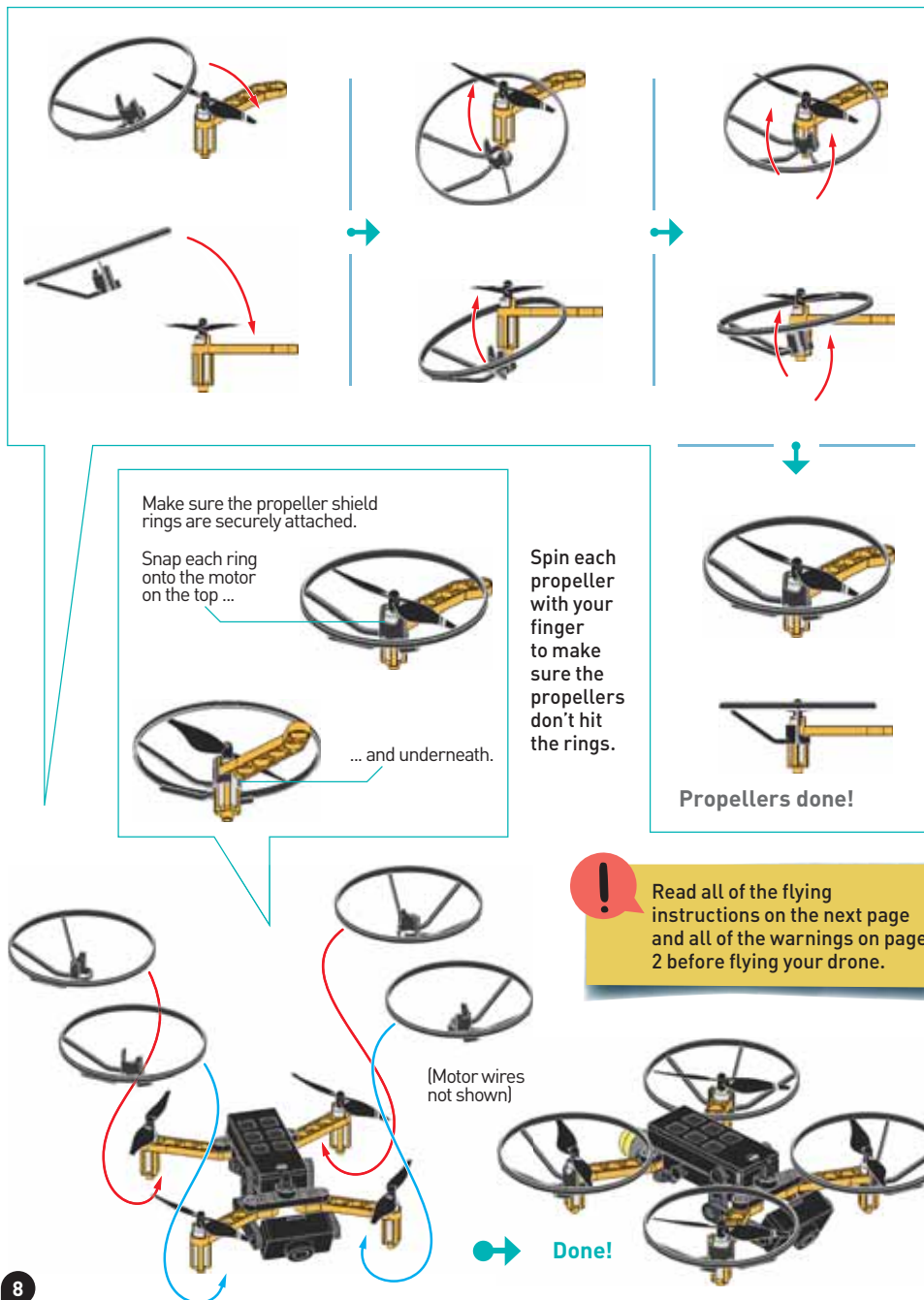


Assemble the parts in the order shown.

7



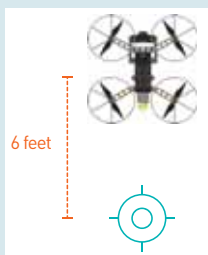
CAMERA QUADCOPTER DRONE ASSEMBLY



8

FLYING YOUR CAMERA QUADCOPTER DRONE

- Before flying your drone, read all of the **warnings and safety info on page 2** and perform a final **preflight check**, making sure that:
 - all of the pieces of the model are **securely attached**, especially the propellers,
 - the **motors cables** are threaded through the holes in the motor arms and completely out of the way of the propeller, and
 - the battery is fully charged. Use the included **micro USB cable** and your own USB power adapter to charge the battery. It takes 2-3 hours to charge. It is fully charged when the red light on the battery goes out.
- Press the **power button** on the bottom of the drone for **two seconds** to turn it on. The LED light will flash on and off.
- Place the drone in a **wide open area**. Then stand at least **six feet** behind the drone at all times.
- Connect to the **drone's Wi-Fi network** from your device settings. It will be named "**Drone-**" followed by your drone's unique ID number.
- Open the **Robotics: Drone** app. The **main menu** will appear on screen.
- Tap the button for the **drone remote control mode**. The drone remote control mode opens and you should see live-streaming images from the drone's camera.
- Tap the **auto takeoff** button. The drone will immediately lift off the floor to a height of about 5 feet. See the diagram to the right for a description of what is happening when the drone is hovering.
- Use the controls in the **control pads** to fly the drone. See the next page for descriptions of the controls. Tap and slide the circle in the center of



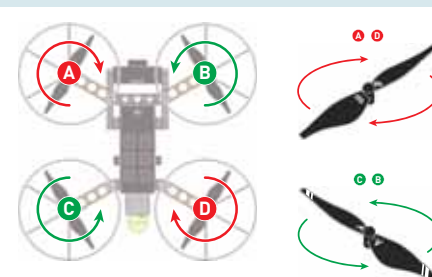
HELPFUL VIDEO!

Scan this QR code to view a video of helpful tips for using and flying your camera drone.



the control pad in the desired direction. Start slowly to get a feel for how the drone responds to the commands and so that it doesn't fly out of control.

- Tap the **take photo** button or **take video** button to take a photo or video. You will need to give the app access to your device's photo/video library when you do this the first time.
- To land the drone, press the **auto landing** button.
- If there is an emergency and you need to stop the drone immediately, press the **emergency stop** button.
- To turn off your drone, press and hold the **power button** on the bottom of the drone for two seconds, until the LED light goes out.



HOVER

The A and D rotors rotate clockwise.
The B and C rotors rotate counterclockwise.
The RPM of the four rotors is the same.
The RPM is enough to provide lift to make the drone hover.
The torque is in equilibrium so there is no yaw (turning).

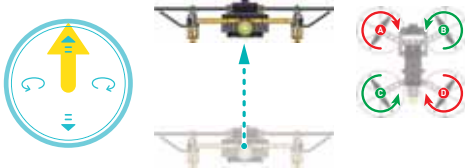
RPM = Revolution(s) Per Minute (a measure of speed)

FLYING YOUR CAMERA QUADCOPTER DRONE

Here is an explanation of the resulting behaviors when you slide the circles on the control pads in each of the four directions:

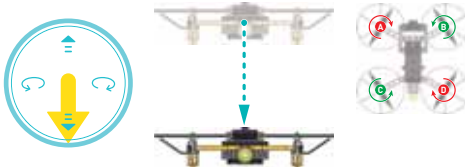
Increase Altitude

Increases RPM (speed) on all four rotors simultaneously.



Decrease Altitude

Decreases RPM on all four rotors simultaneously.



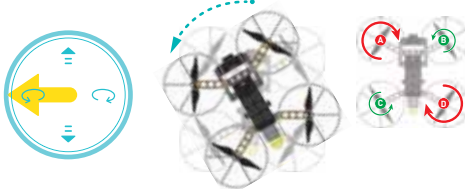
Yaw Clockwise

Increases RPM on B and C rotors to generate more torque (spinning force) in the clockwise direction.



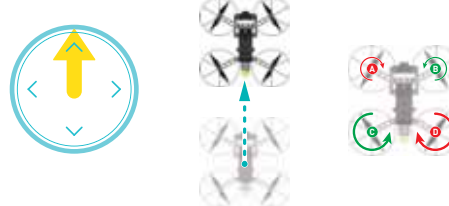
Yaw Counterclockwise

Increases RPM on A and D rotors to generate more torque in the counterclockwise direction.



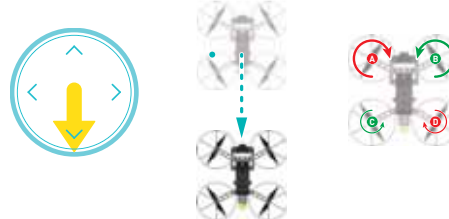
Pitch Forward

Increases RPM on C and D (rear) motors, and/or decreases RPM on A and B (front) motors, to move forward.



Pitch Backward

Increases RPM on A and B (front) motors, and/or decreases RPM on C and D (rear) motors, to move backward.



Roll Right

Increases RPM on A and C (left) motors, and/or decreases RPM on B and D (right) motors, to move right.



Roll Left

Increases RPM on B and D (right) motors, and/or decreases RPM on A and C (left) motors, to move left.



To program your drone to fly in a preset pattern, see the programming information on page 7.

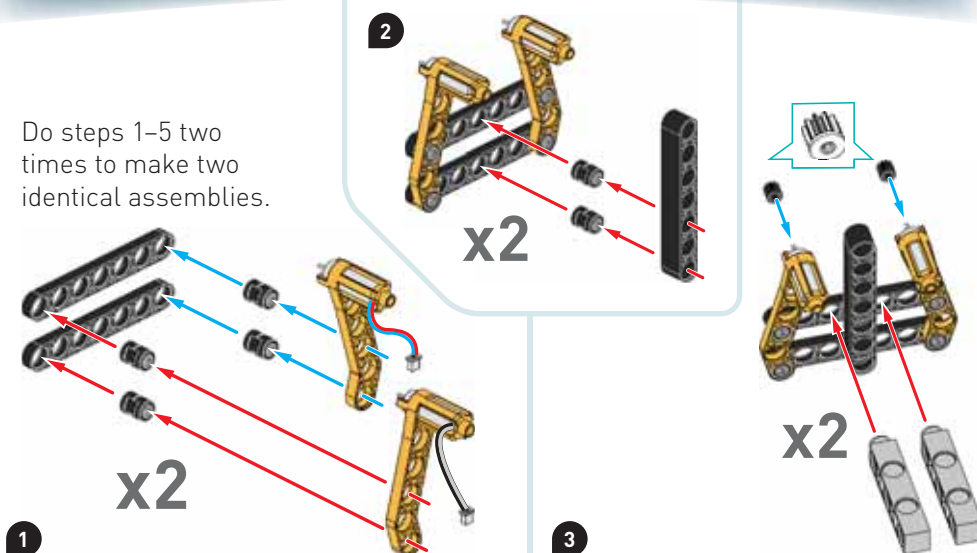
ROBOTIC CAMERA CAR (ZOOM SETUP)



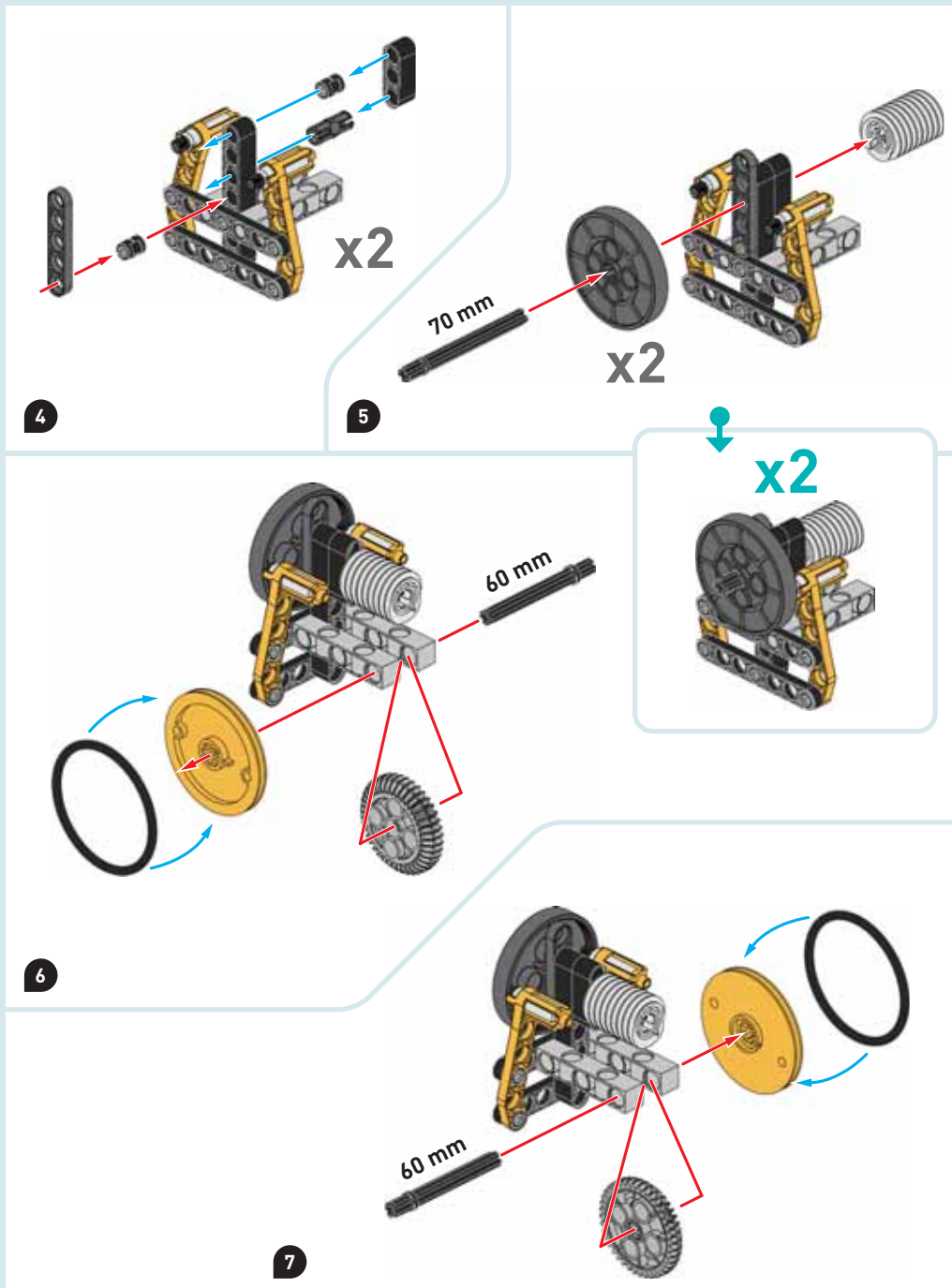
Please note: The next three models are driven by gears. If the model doesn't work well, check the gears. Sometimes they are too close together and need some small gaps between them.

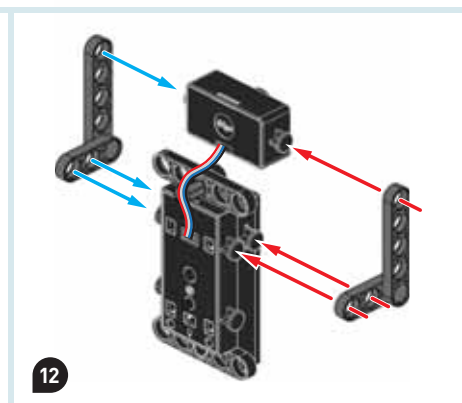
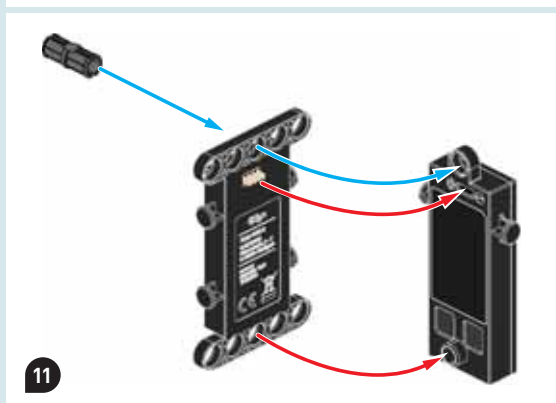
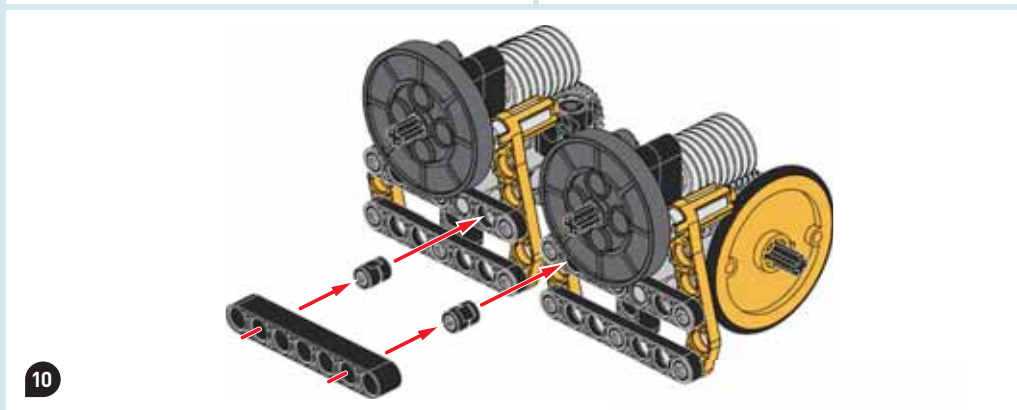
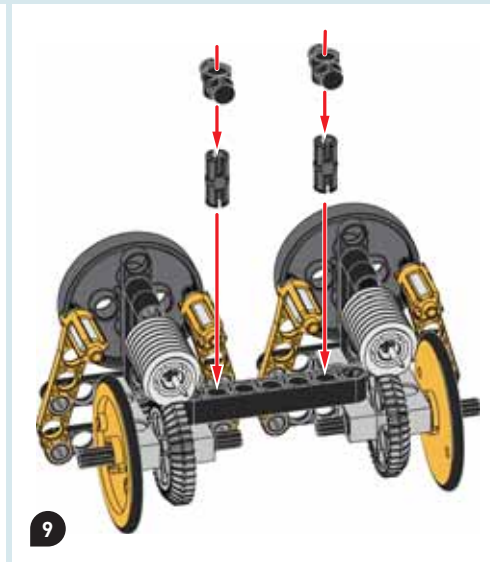
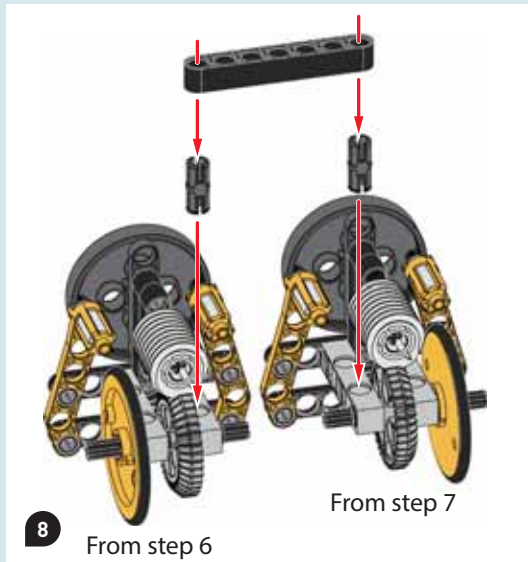


Do steps 1–5 two times to make two identical assemblies.

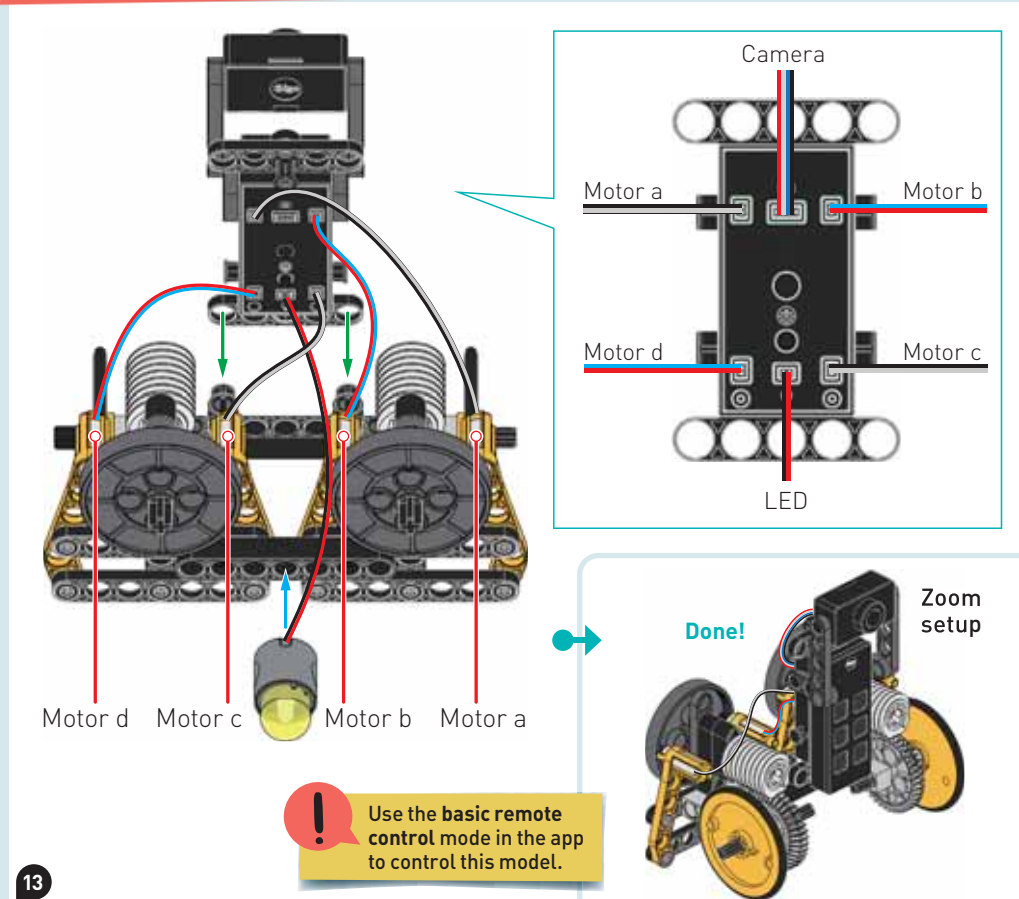


ROBOTIC CAMERA CAR (ZOOM SETUP)

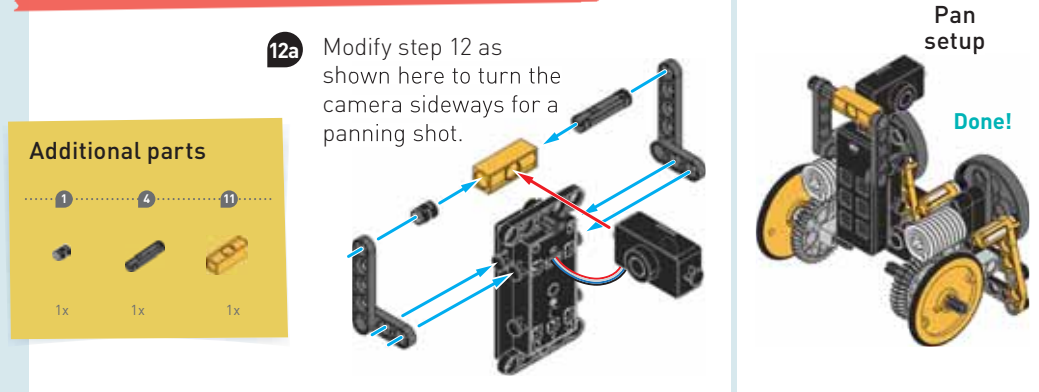




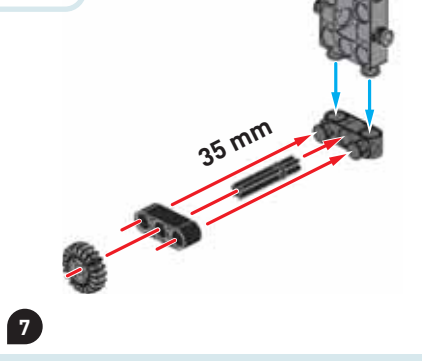
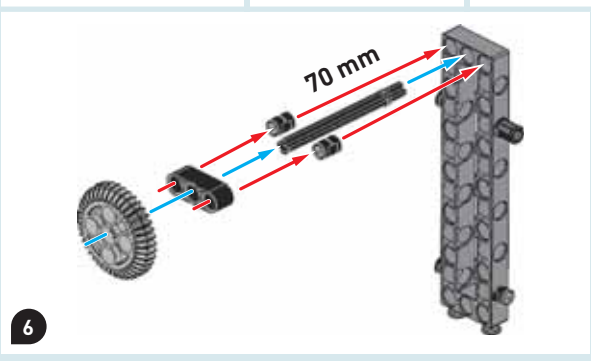
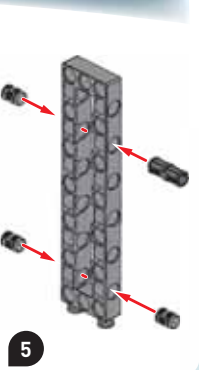
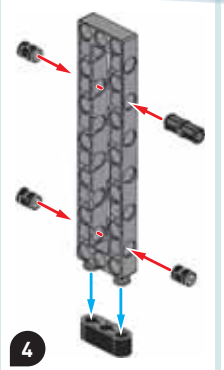
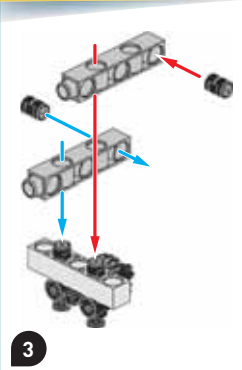
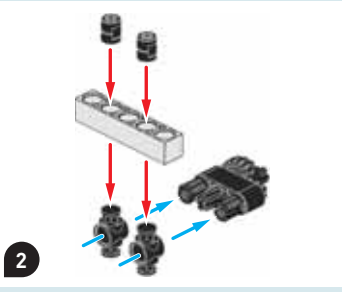
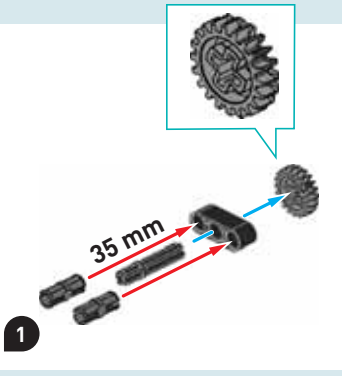
ROBOTIC CAMERA CAR (ZOOM SETUP)



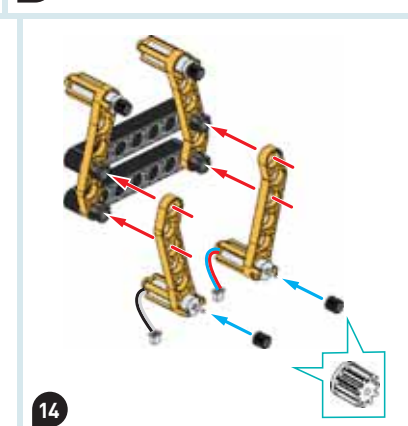
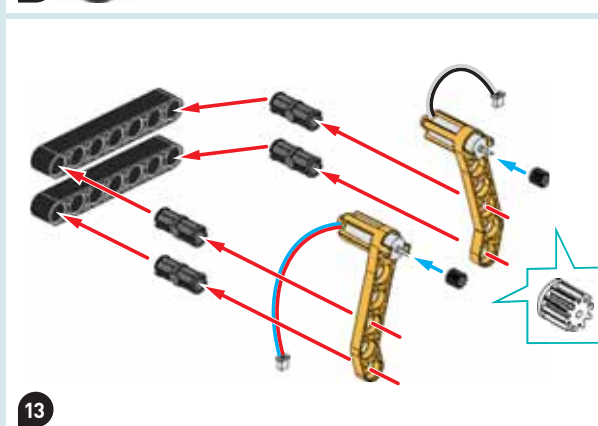
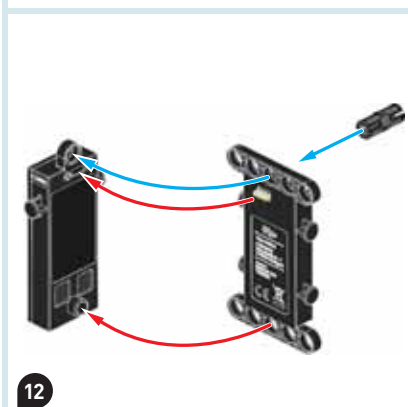
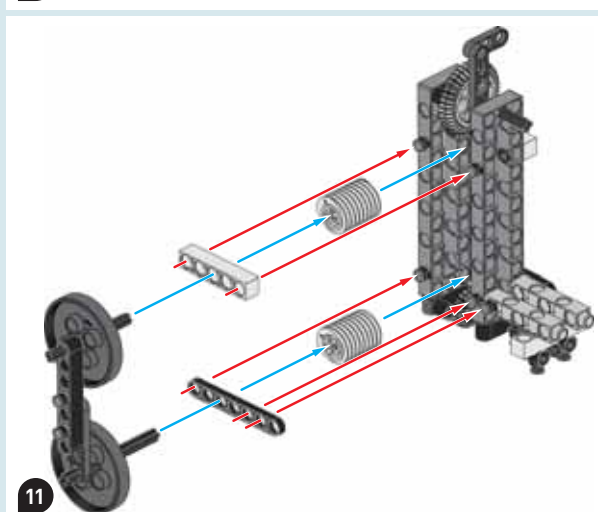
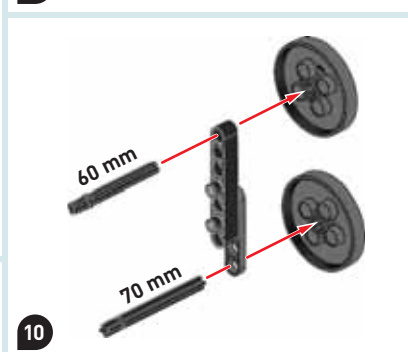
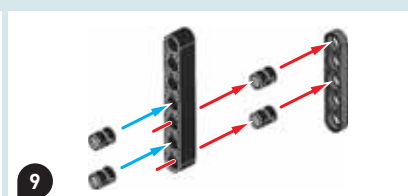
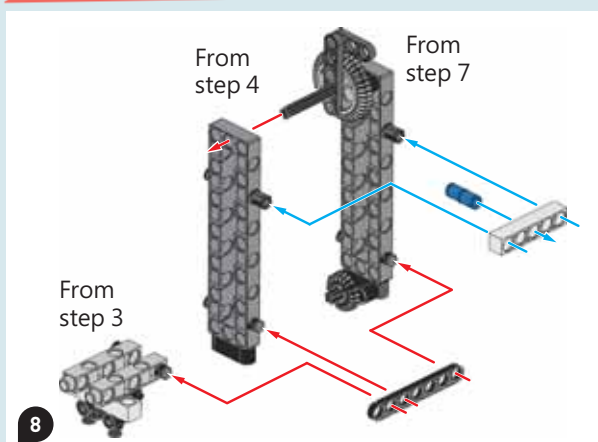
ROBOTIC CAMERA CAR (PAN SETUP)

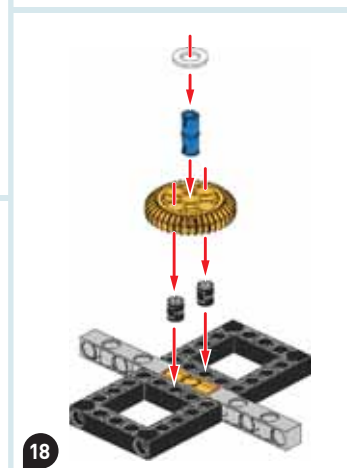
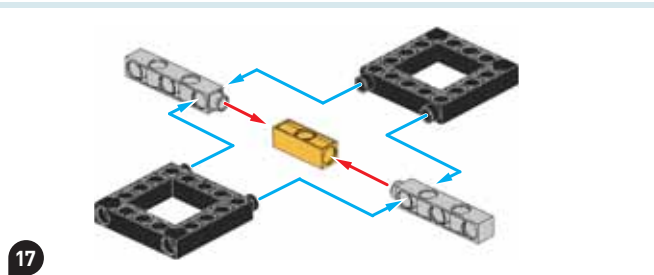
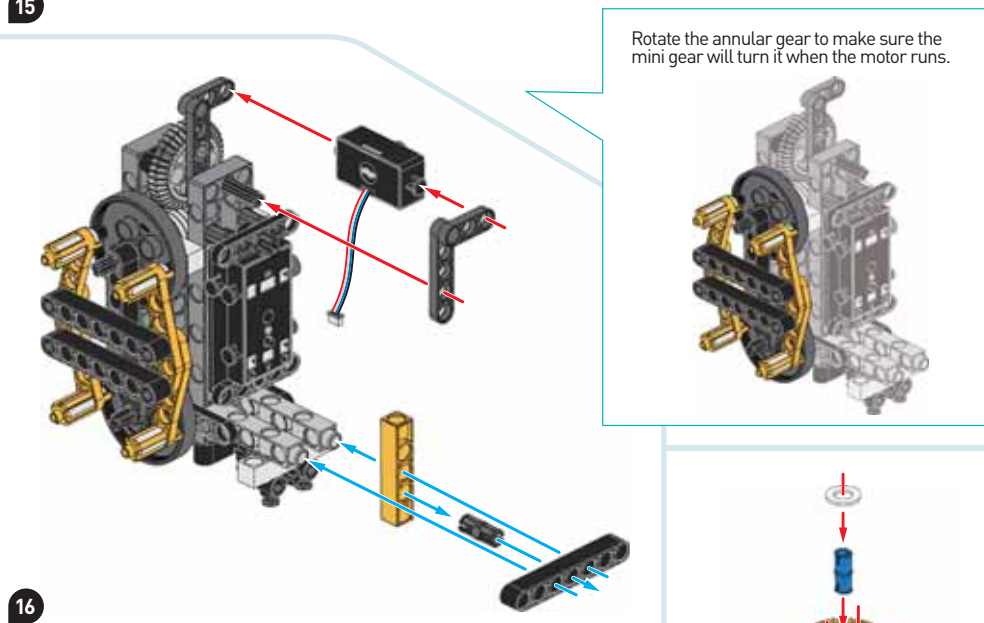
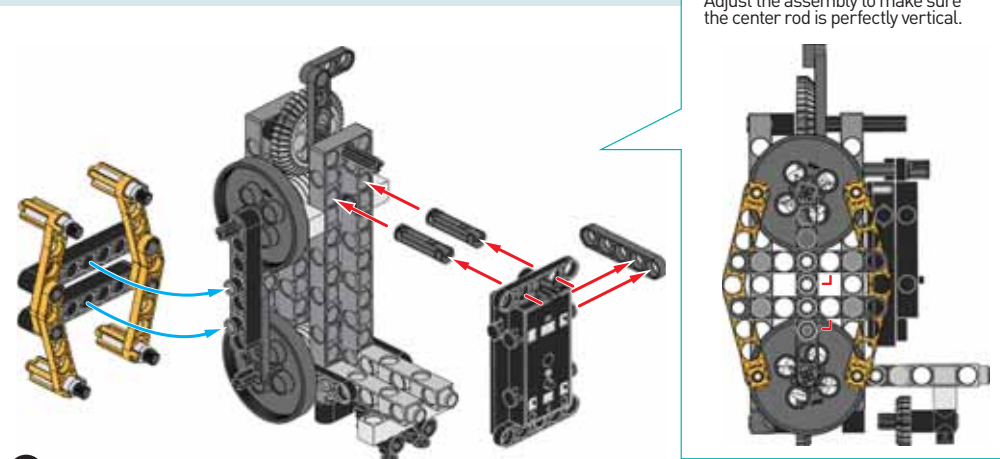


360-DEGREE CAMERA

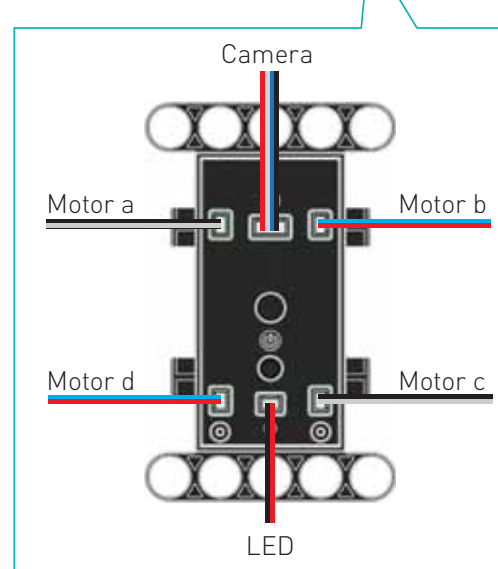
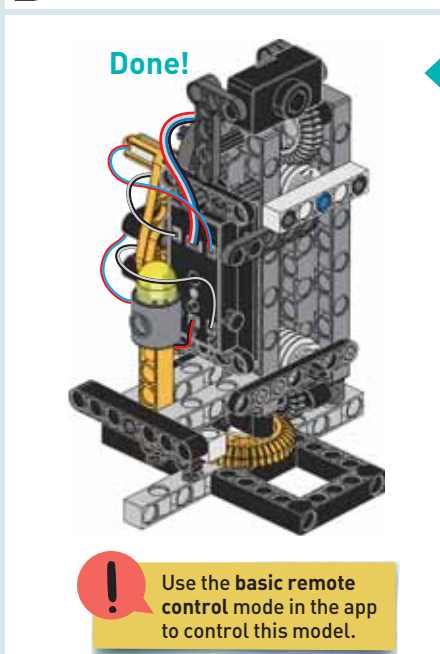
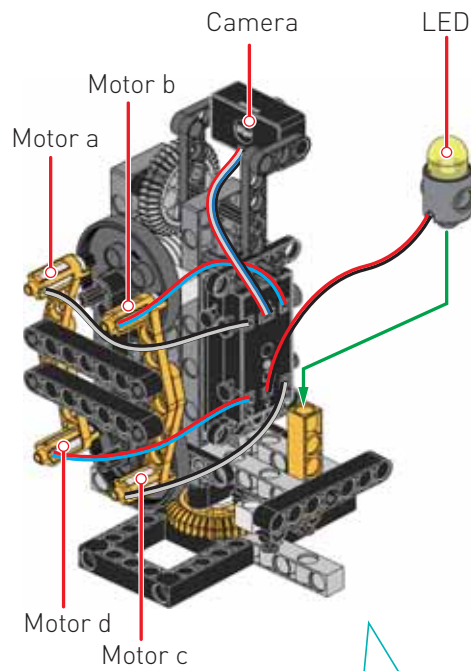
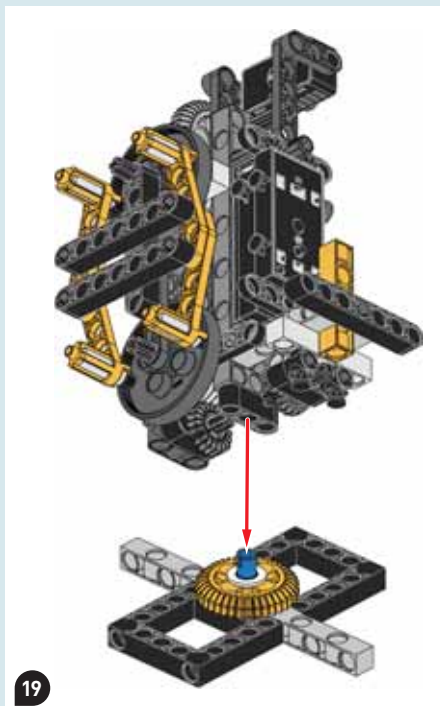


360-DEGREE CAMERA

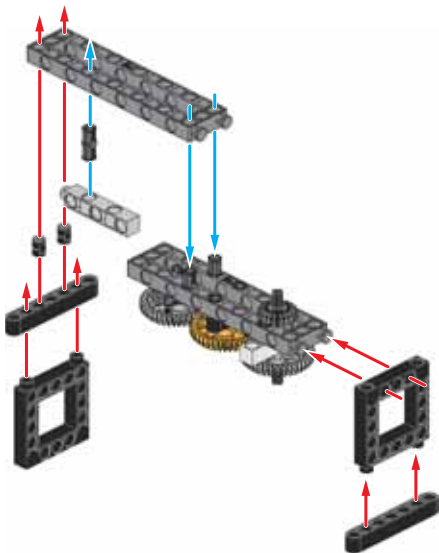
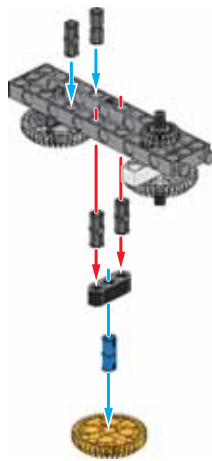
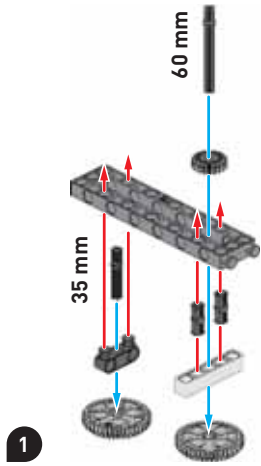




360-DEGREE CAMERA

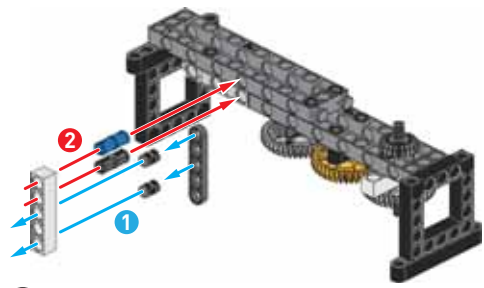


TURNTABLE CAMERA

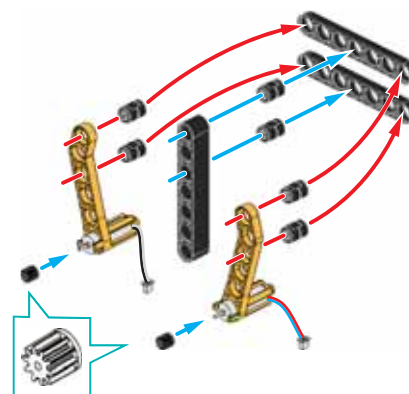
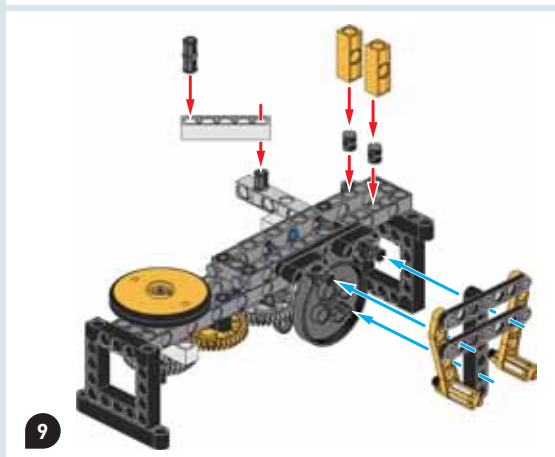
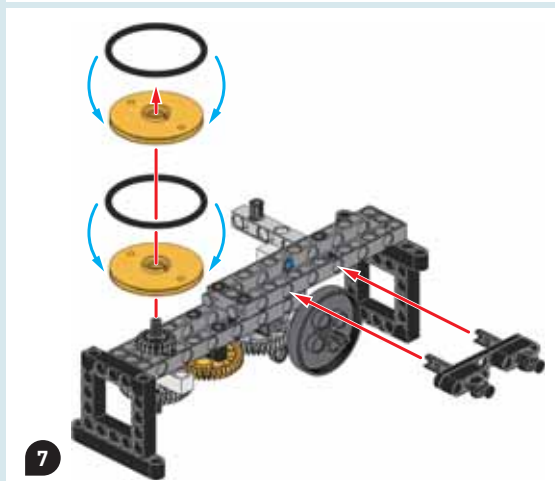
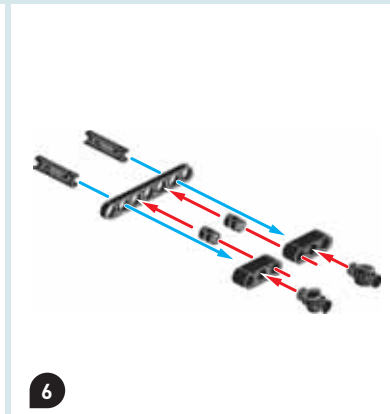
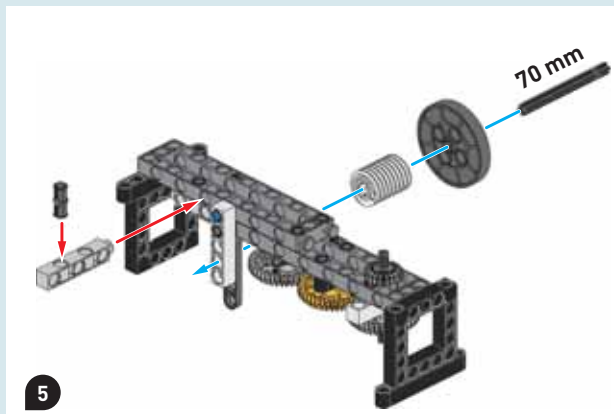


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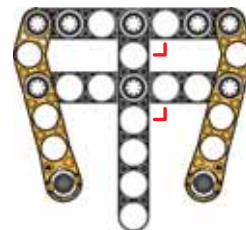
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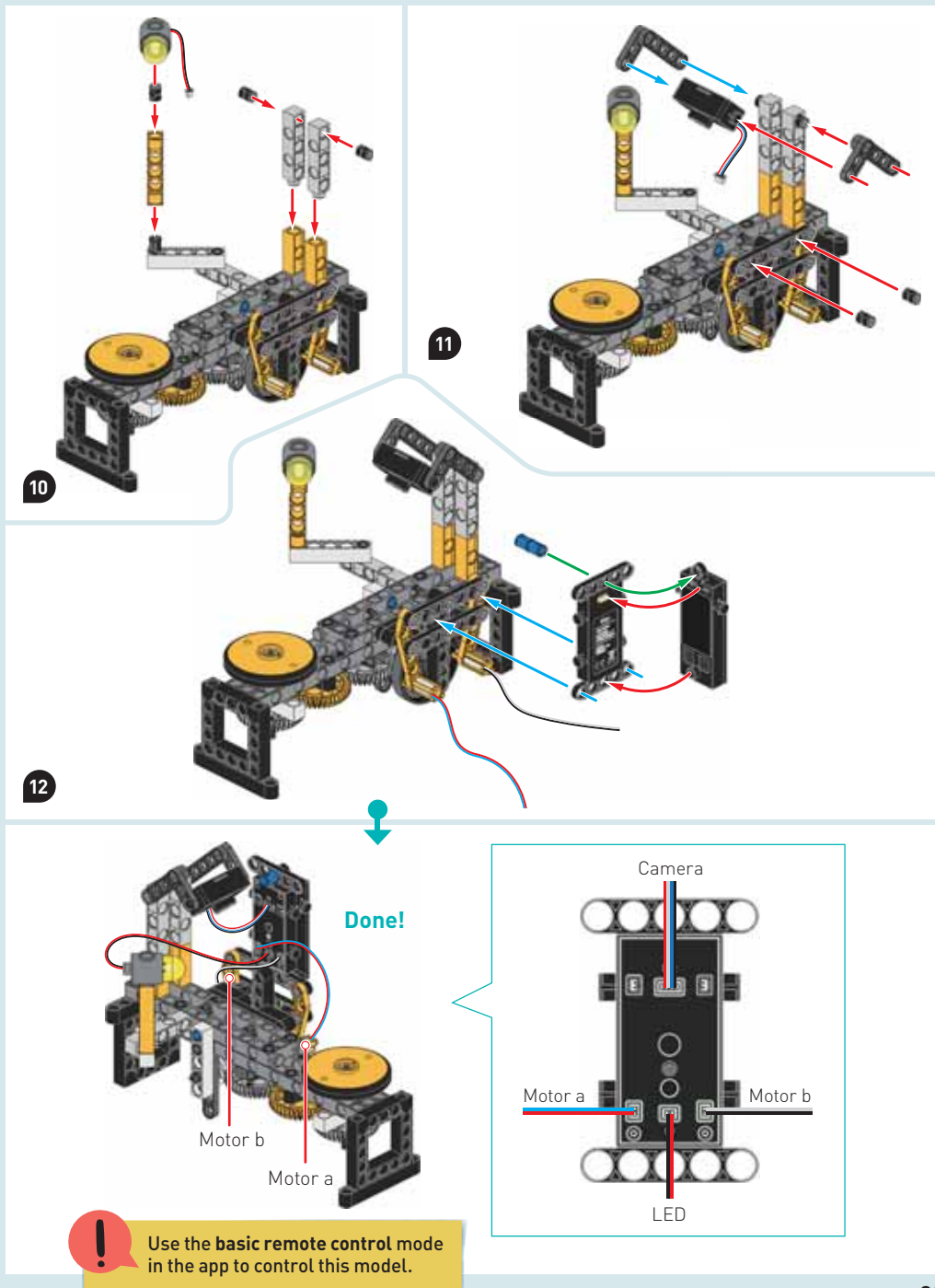


TURNTABLE CAMERA

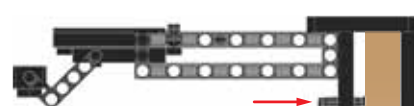
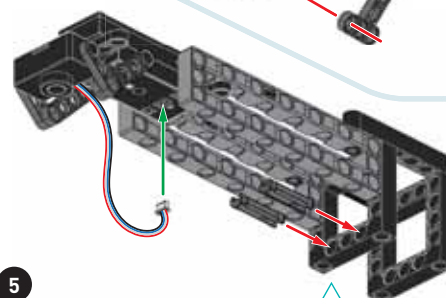
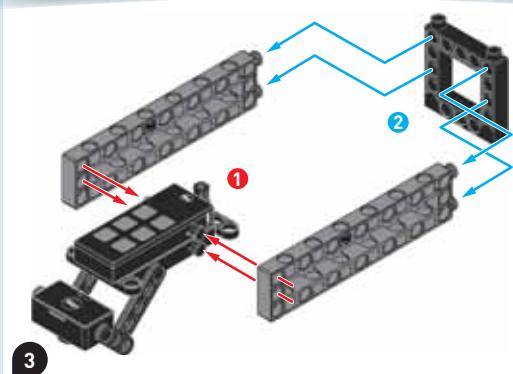
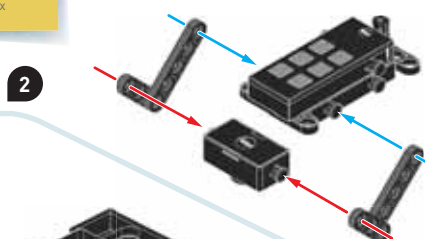
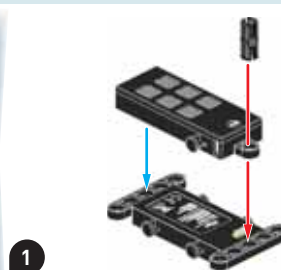
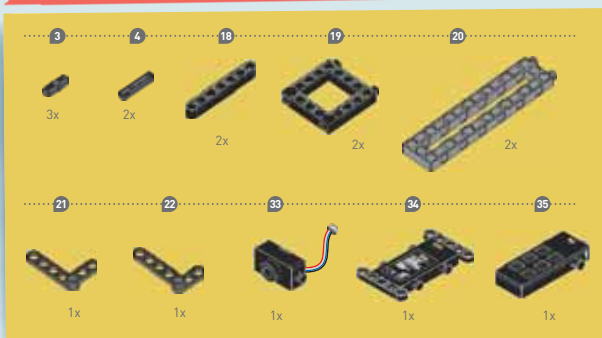


Adjust the assembly, making sure the center rod is perfectly vertical.

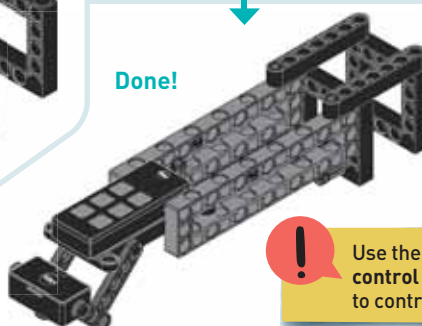
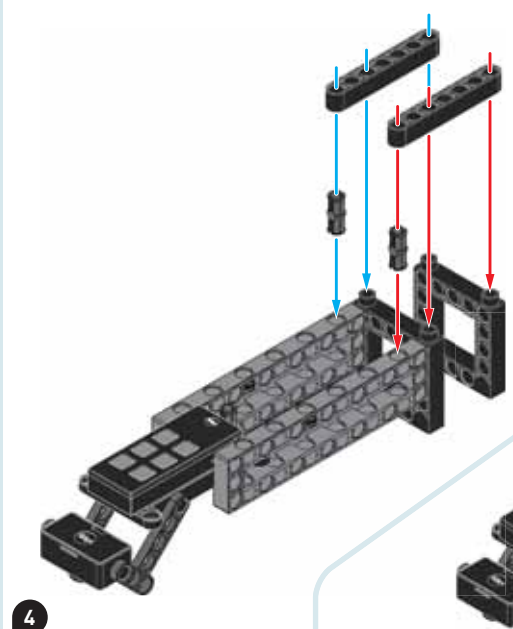




HANDS-FREE CAMERA MOUNT



Clamp the model to a piece of furniture or other object as shown.



Done!

Use selfie mode to take a hands-free photo!

Use the **basic remote control** mode in the app to control this model.