

ROKR

OWL CLOCK

LK503

3D WOODEN PUZZLE

MECHANICAL MODELS



ASSEMBLY INSTRUCTION

WARNING:

The product is for people who **include and over 14 years old**. Kids should assemble under the guidance of adults.

MAINTENANCE:

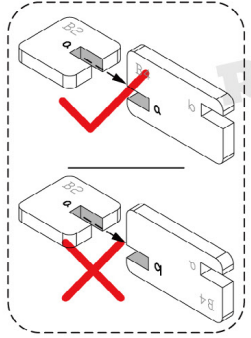
1. Keep the product away from the source of ignition and water to prevent any damage.
2. Don't use chemical reagents like alcohol, ammonia water to clean the product.
3. Use clean and soft fabric to clean the product if necessary.



Product Display

ATTENTION

- **Take off the pieces** from the board according to each step **before assembling**, and place them properly in case of missing.
- Some parts have numbers, please assemble the same numbered slot together. **Match the numbers while assembling.**
- **Additional pieces** can be used as **spare parts**.
- For some **difficult assembling steps**, you can **scan the QR codes for assembly videos**.
- Use the **sandpaper to polish the pieces** if needed.
- Please **keep the manual well** for future reference.
- Some **parts may differ from the illustration**. Please **refer to the part number**.
- Please **prepare glue in case breaking parts** when taking them off.



*CUSTOMER SERVICE

ROKR Facebook: @rokrofficial Email: service@robotime.com

Please contact us on Facebook or email if you have any question.

FAQ:

Problem	Cause	Solution
Pendulum doesn't move.	1. High friction between escapement fork (B20) and escapement wheel(E11) (see Step 4 and Step 6) 2. Gears hinder each other. 3. Insufficient driving force from spring. 4. Placed on a tilting surface.	1. Wax parts properly as shown. 2. Adjust position of gears and shaft sleeves. 3. Making sure all parts installed properly, and screw down the spring. 4. Placed on a horizontal surface.
Time shown is not accurate.	1. Acceleration of gravity varies from district to district.	1. If pendulum swings too fast, screw down P9 if too slow, screw up P9.



Assemble the parts symmetrically.



Polish the parts with sandpaper.



Make sure the parts could rotate freely.



Make sure the gears are appropriately engaged with each other.



Complete 2 pieces.



Perspective changed.
Rotate the product based on the direction of arrow.



Wax or lubricant needed.



Printed side



Blank side



Special attention in assembly.



Step1



Step2

Parts List

*Due to customs policy in international shipping, the wax and glue may not be included. Please prepare them yourself.

Item	Shaft Sleeve	Key	Spiral Spring	Spring Accessory	Spiral Spring (small)	Shim	Spring Coil	Square Nut	Regulating Screw	Wax	Steel Shaft	Steel Shaft	Steel Shaft
Part No.	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13
Illustration													
Quantity	17	1	1	1	1	1	2	1	1	1	3	1	1

Item	Bell	Clock Movement	Rubber Spacer	Hex Nut	Metal Spacer	Hour Hand	Minute Hand	Second Hand	AA Battery Necessary (Not include)
Part No.	P14	P15	P16	P17	P18	P19	P20	P21	
Illustration									
Quantity	1	1	1	1	1	1	1	1	1X1.5V"AA"/LR6

Parts Instruction:



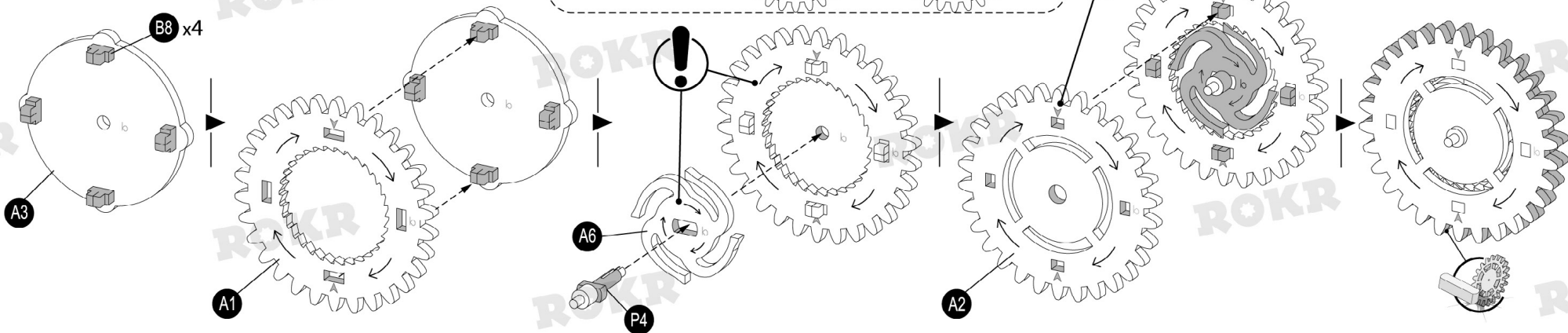
This piece is replacement part of B8.



Both of two parts are C12 could be spare parts.

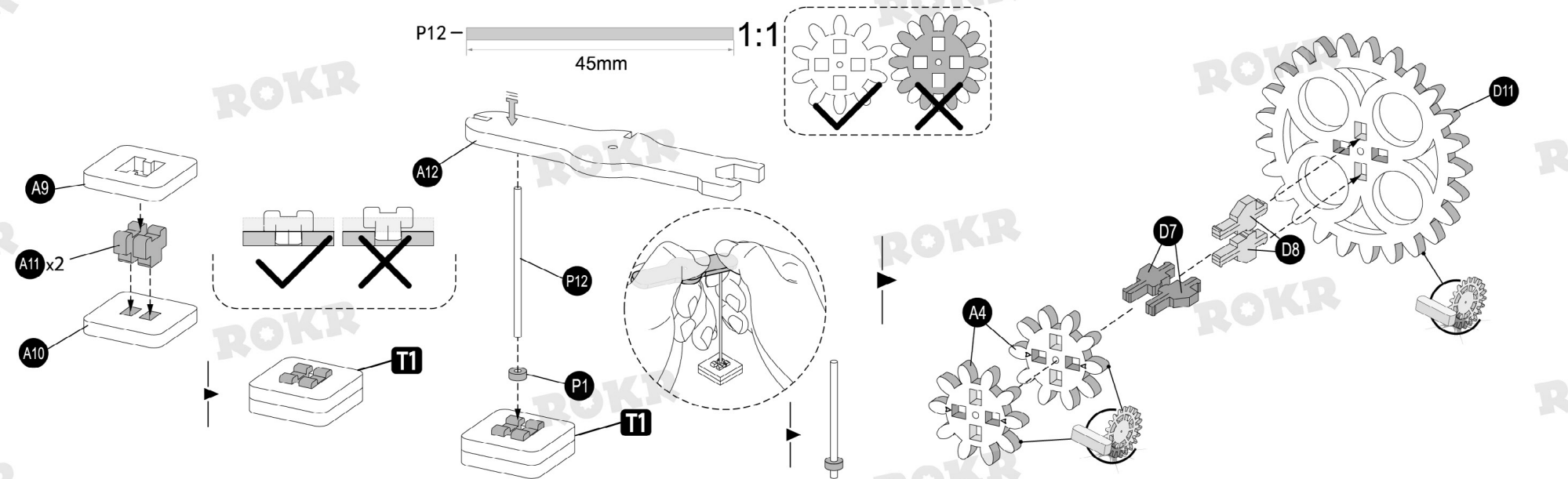
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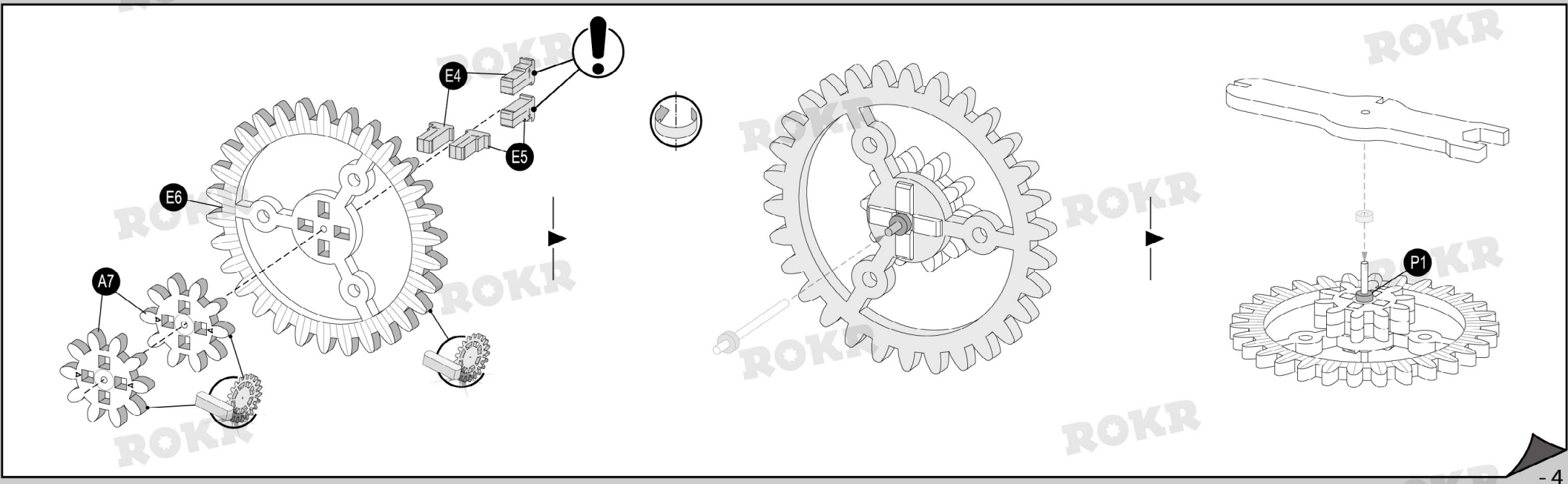
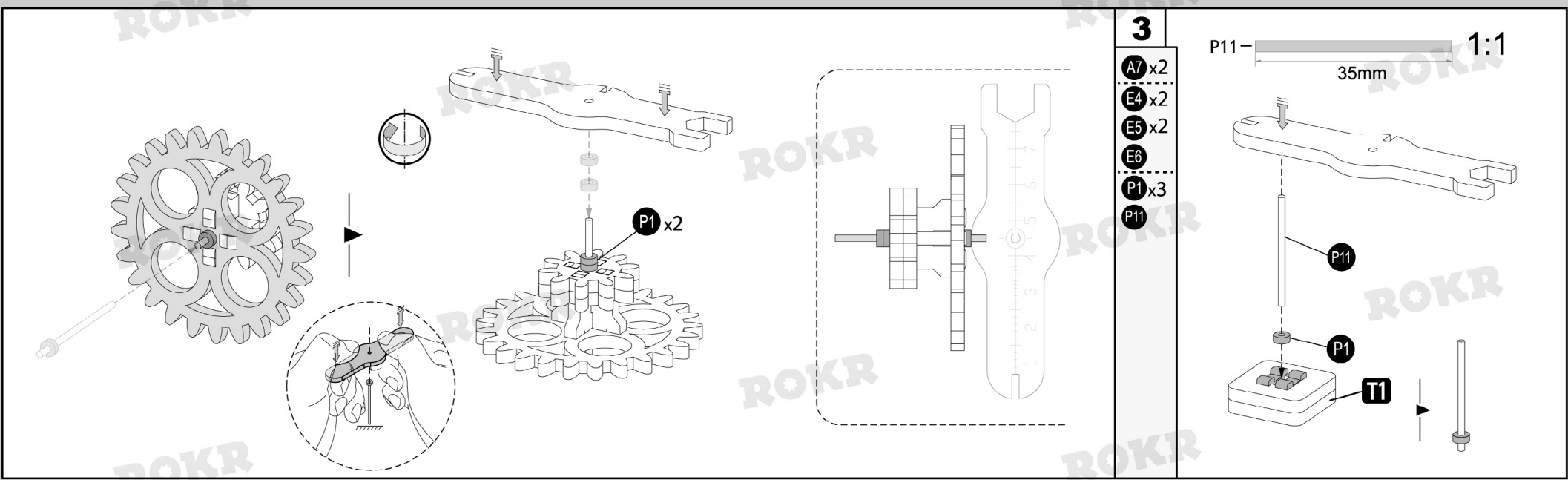
A1
A2
A3
A6
B8 x4
P4



2

A4 x2
A9
A10
A11 x2
A12
D7 x2
D8 x2
D11
P1 x3
P12





T1

P1

P11

35mm

1:1

P11

P1

T1

E11

E9 x2

E10 x2

A4

4

A4 x2

E9 x2

E10 x2

E11

P1 x3

P11

Pay attention to the direction of gear teeth. Avoid direction error!

P1 x2

5

A4 x2

A8

A13 x2

A14 x2

A15 x4

B1 x2

B2

B3

B4 x2

B11 x2

B12 x2

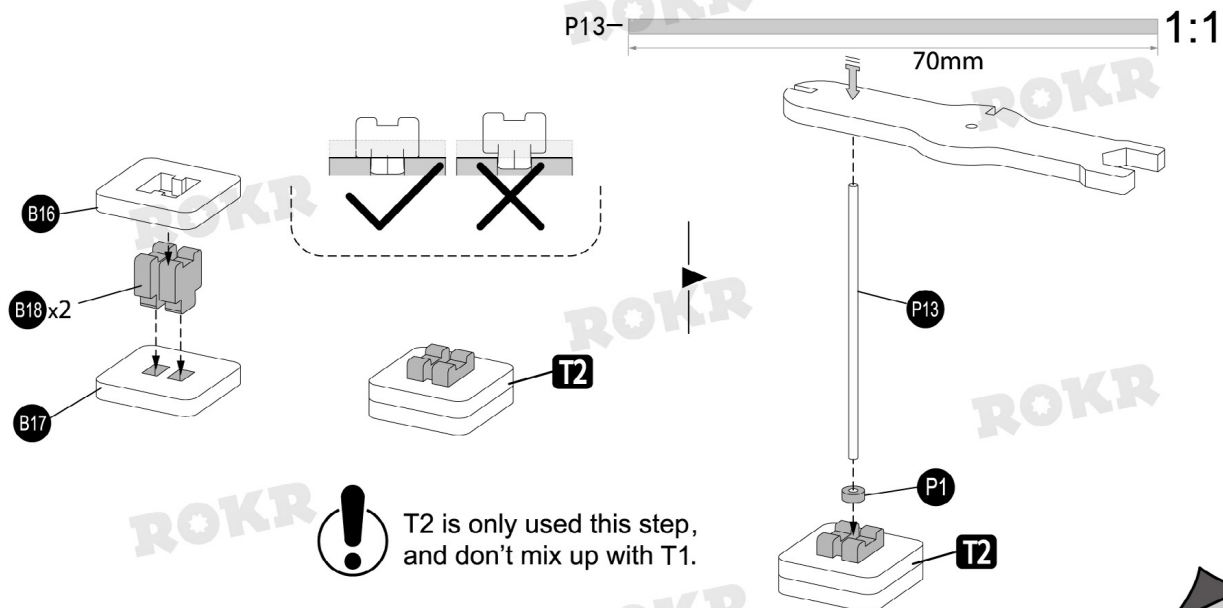
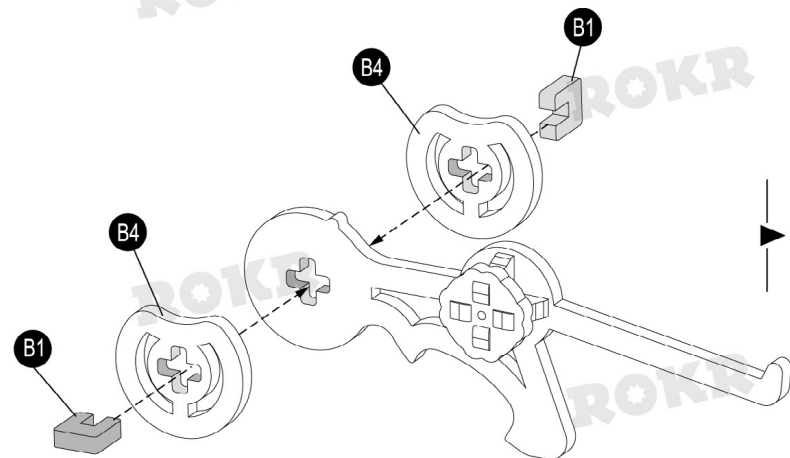
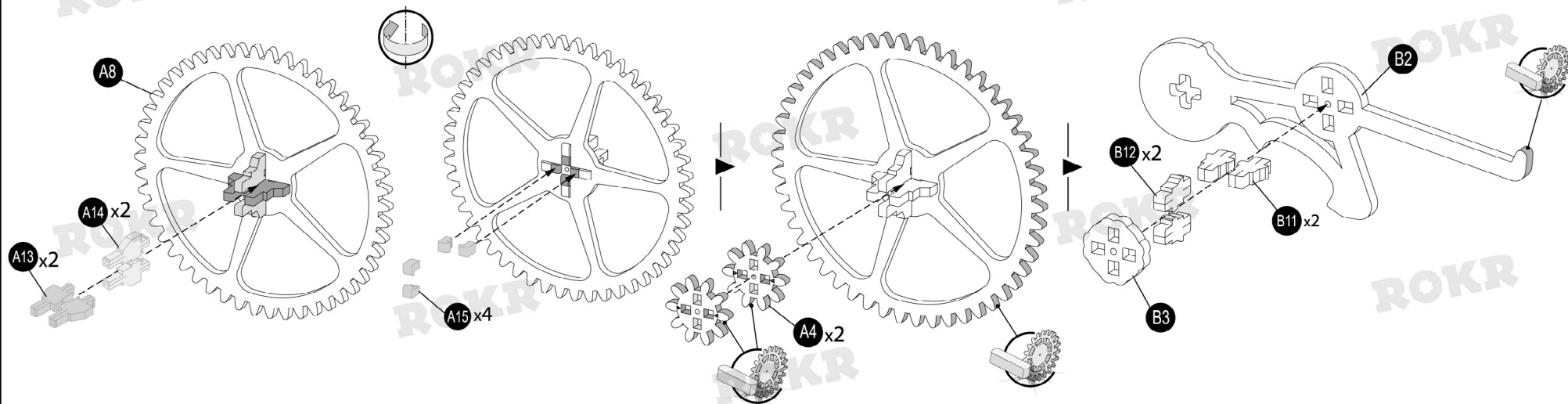
B16

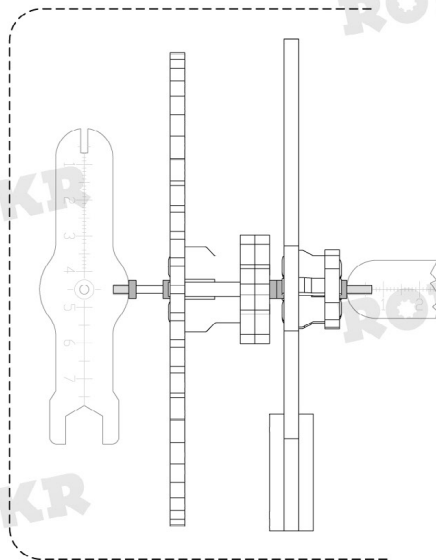
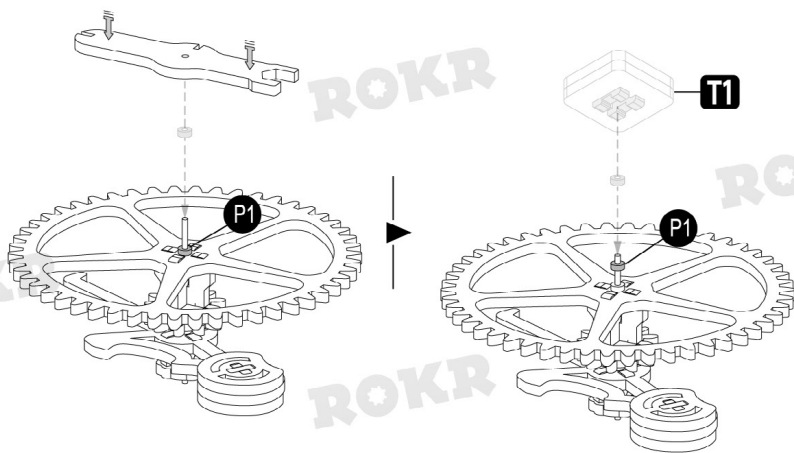
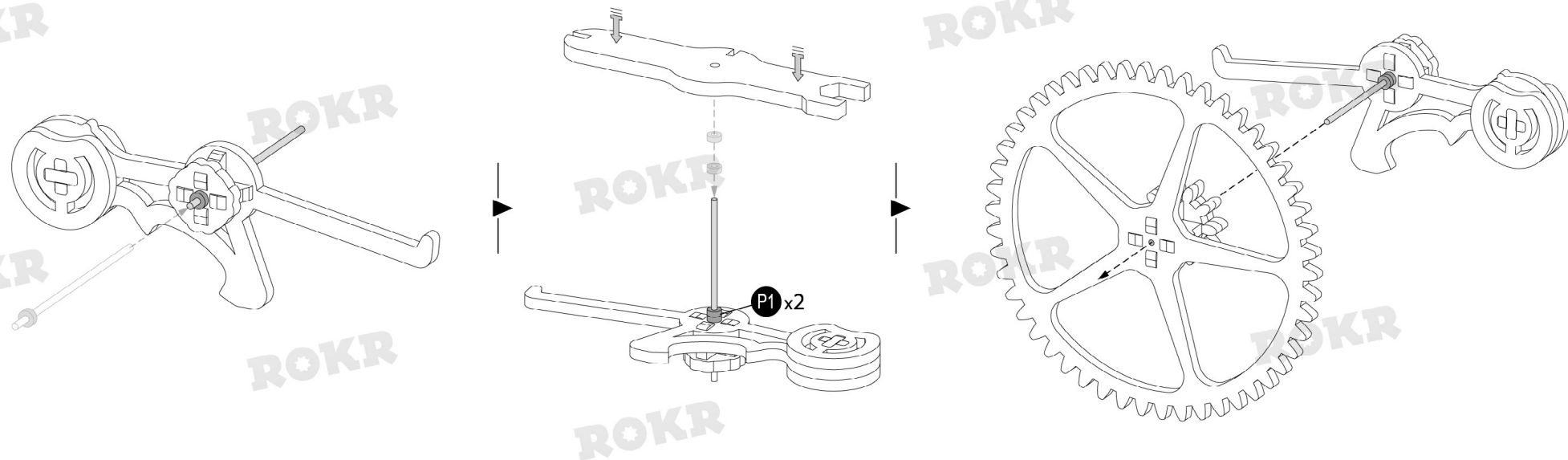
B17

B18 x2

P1 x5

P13

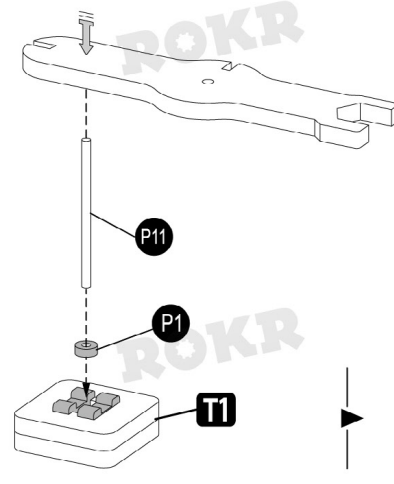


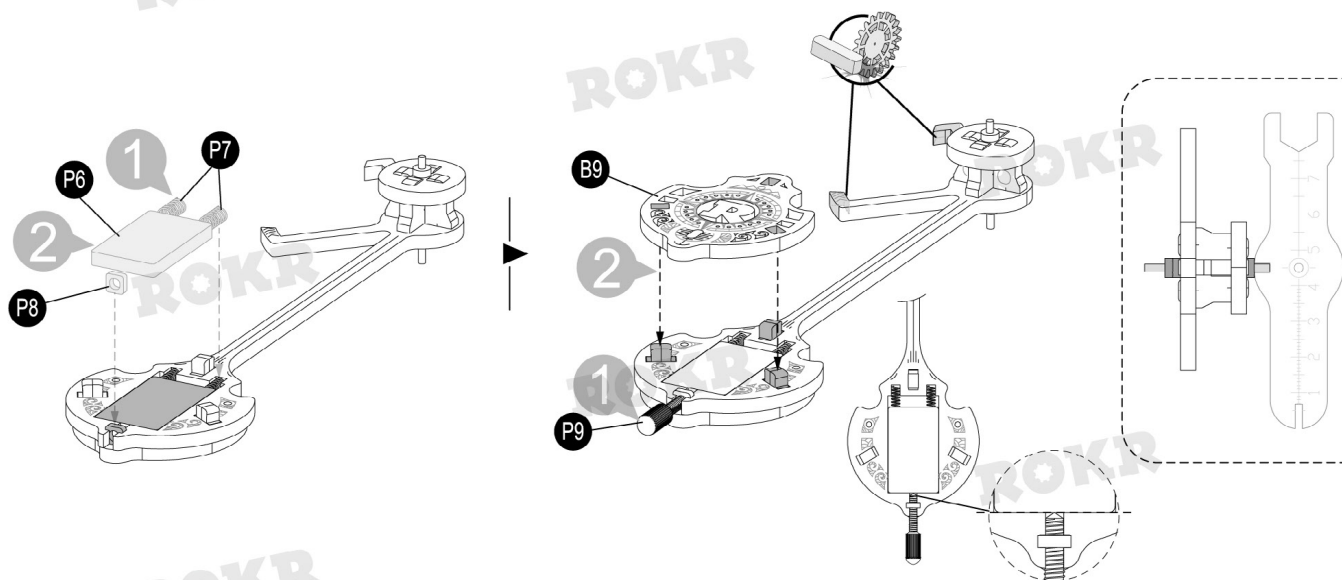
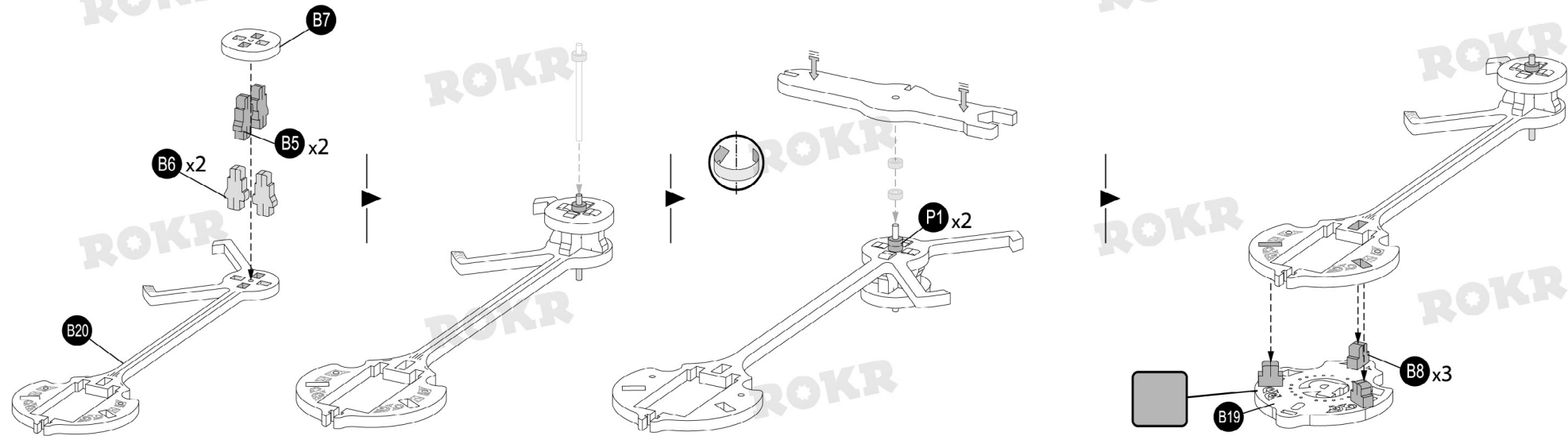


6

- B5 x2
- B6 x2
- B7
- B8 x3
- B9
- B19
- B20
- P1 x3
- P6
- P7 x2
- P8
- P9
- P11

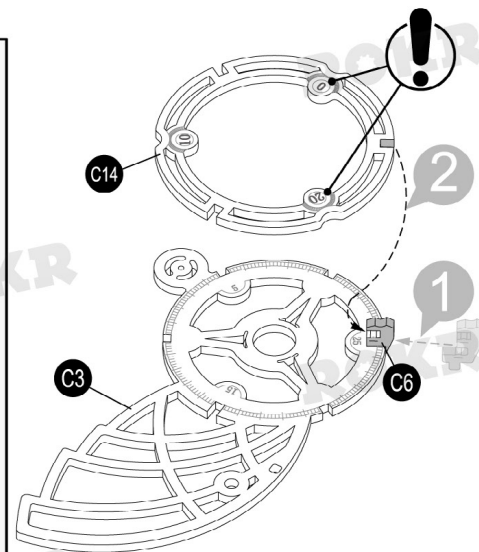
P11 — 35mm 1:1

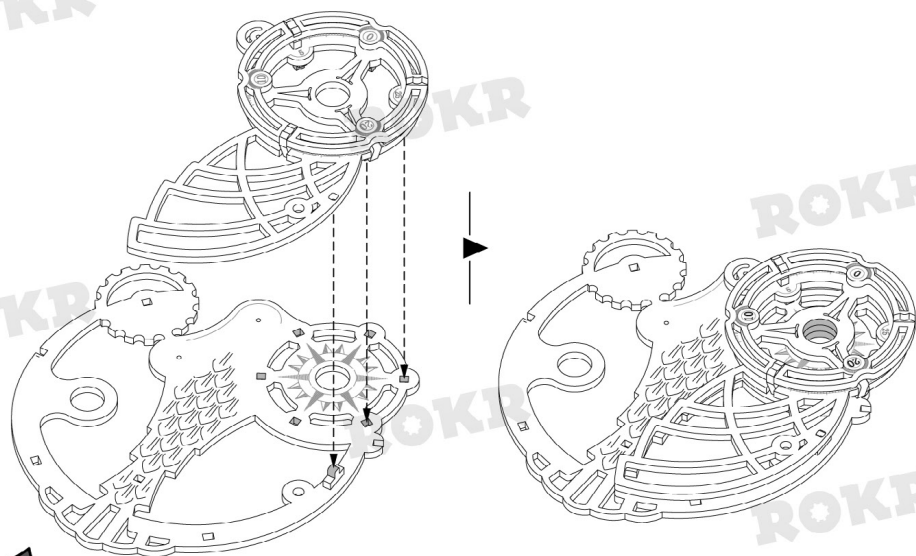
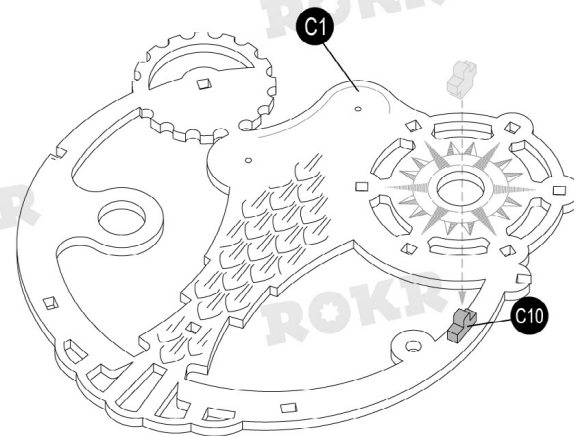
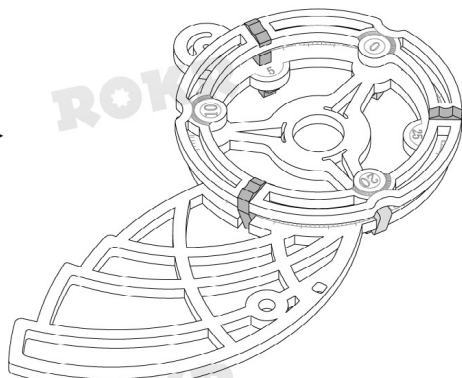
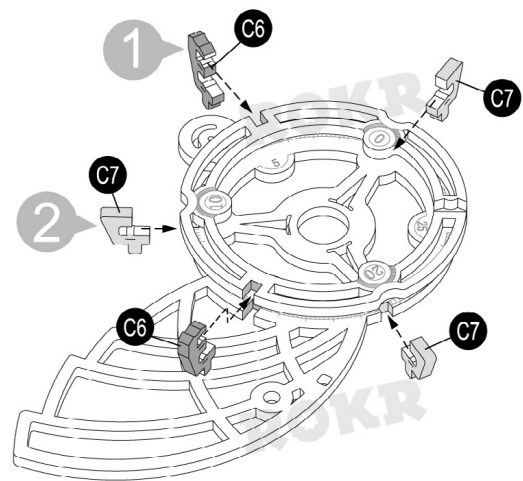




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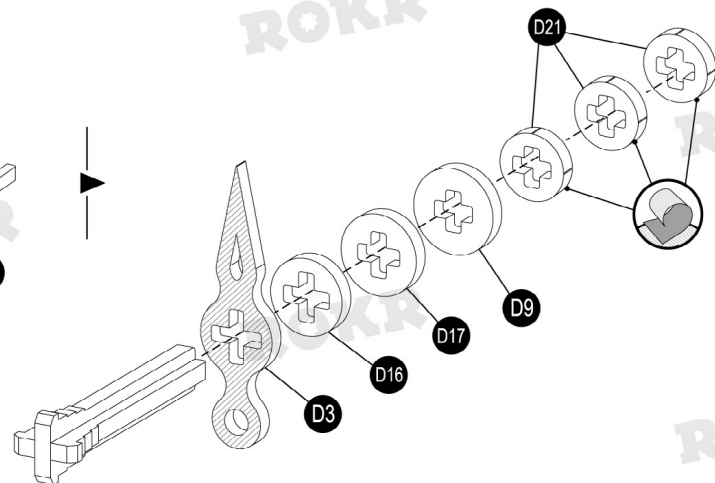
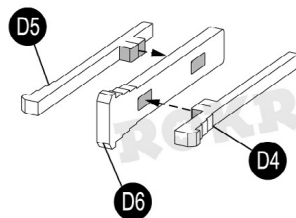
- C1
- C3
- C6 x3
- C7 x3
- C10
- C14

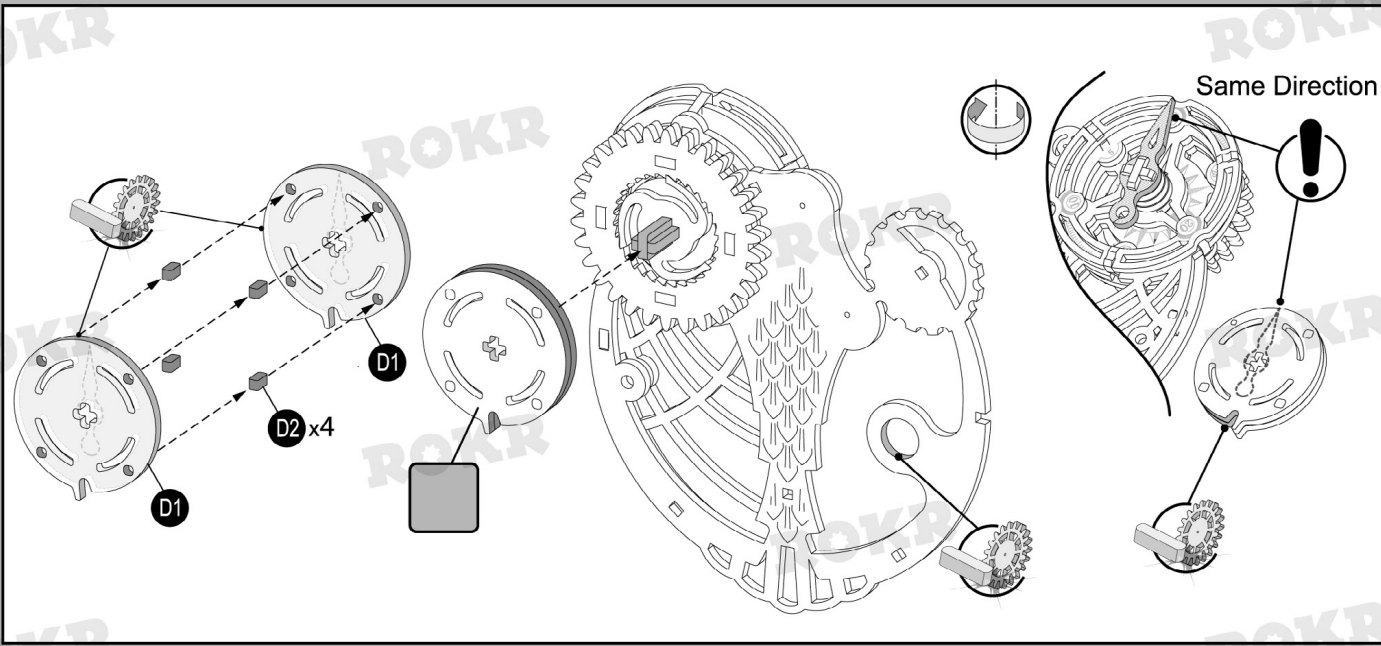
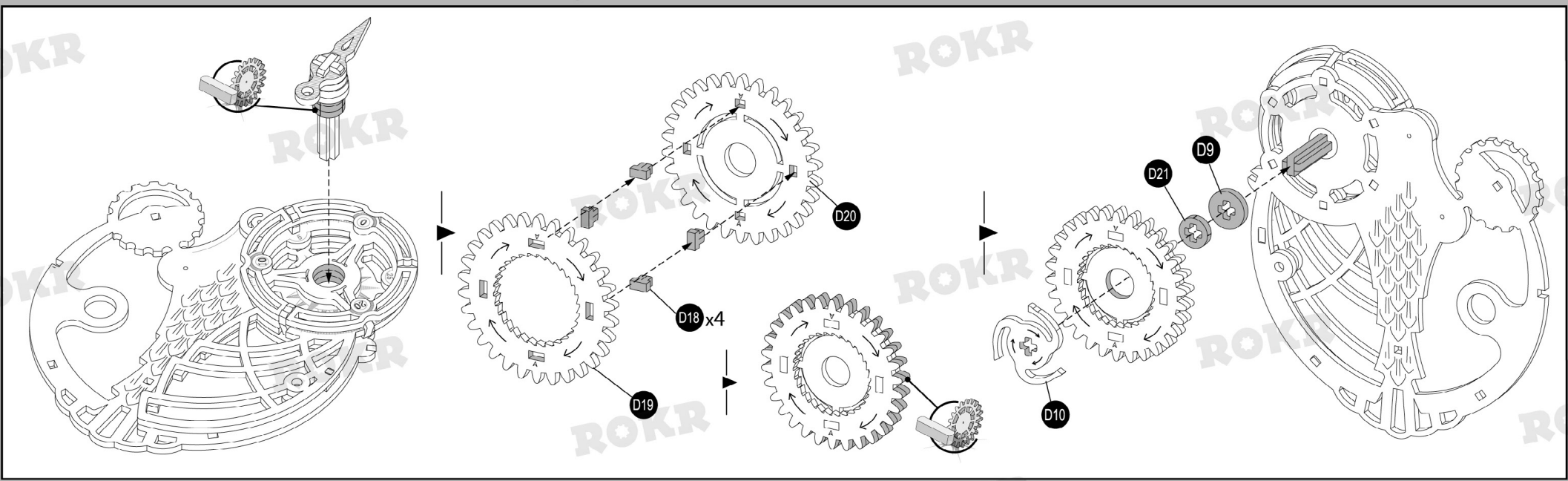




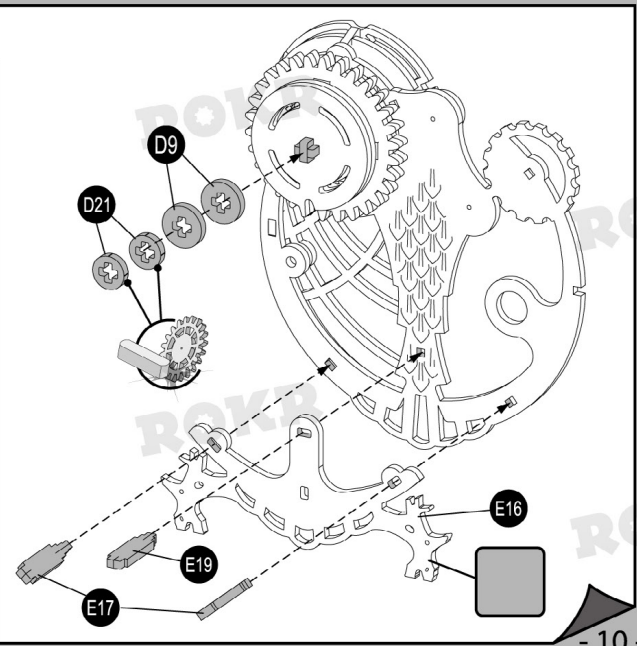
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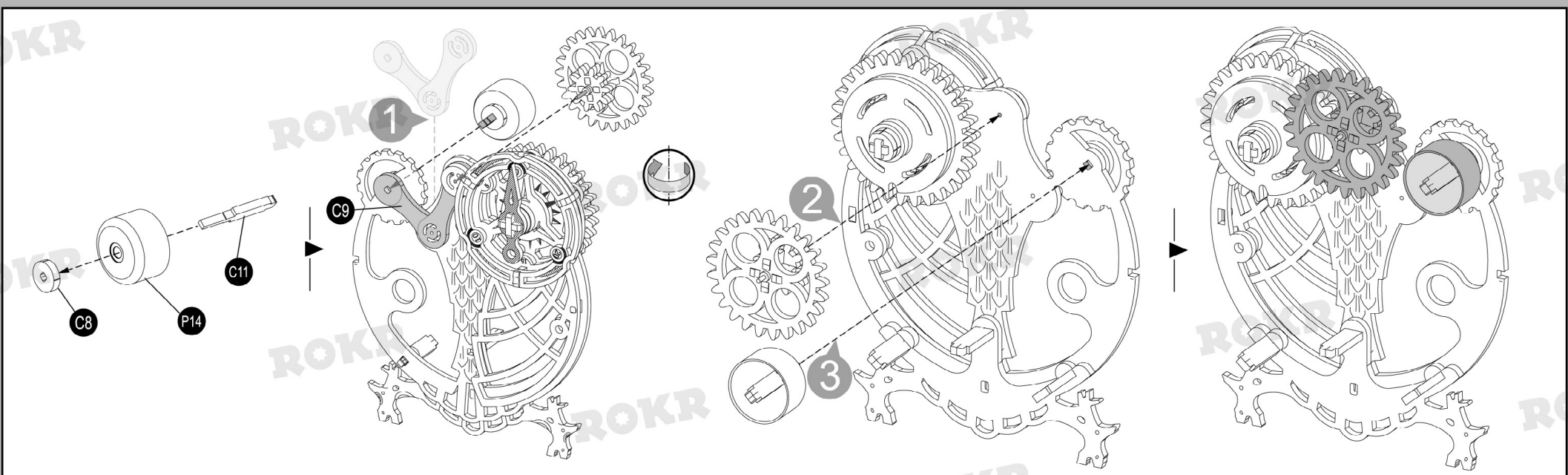
- D1 x2
- D2 x4
- D3
- D4
- D5
- D6
- D9 x2
- D10
- D16
- D17
- D18 x4
- D19
- D20
- D21 x4





9
C8
C9
C11
D9 x2
D21 x2
E16
E17 x2
E19
P14

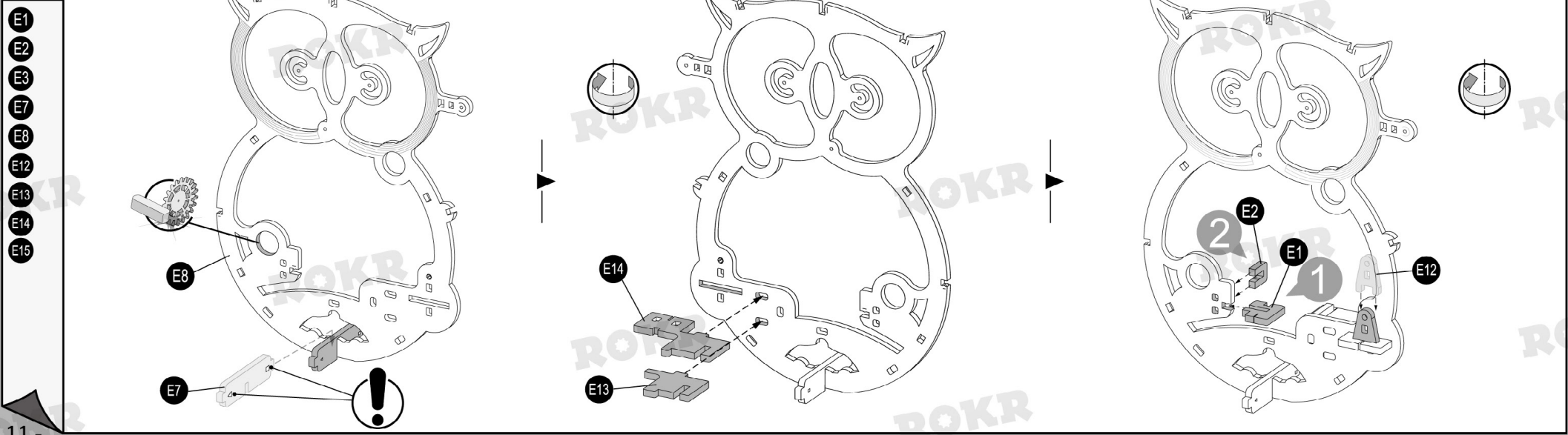


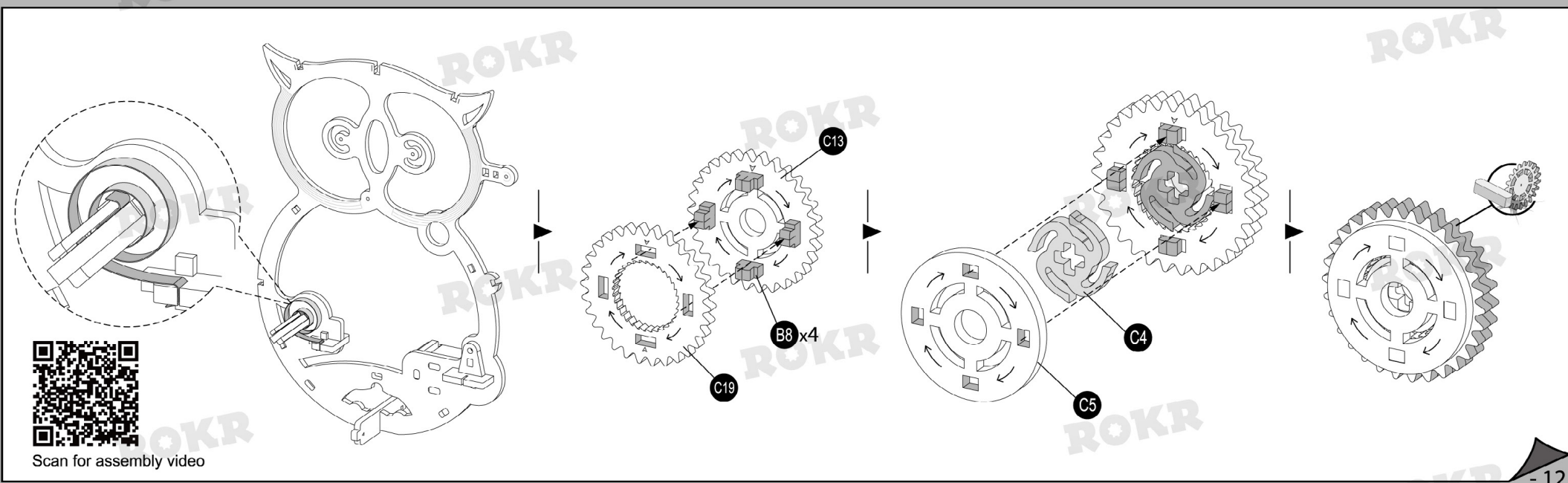
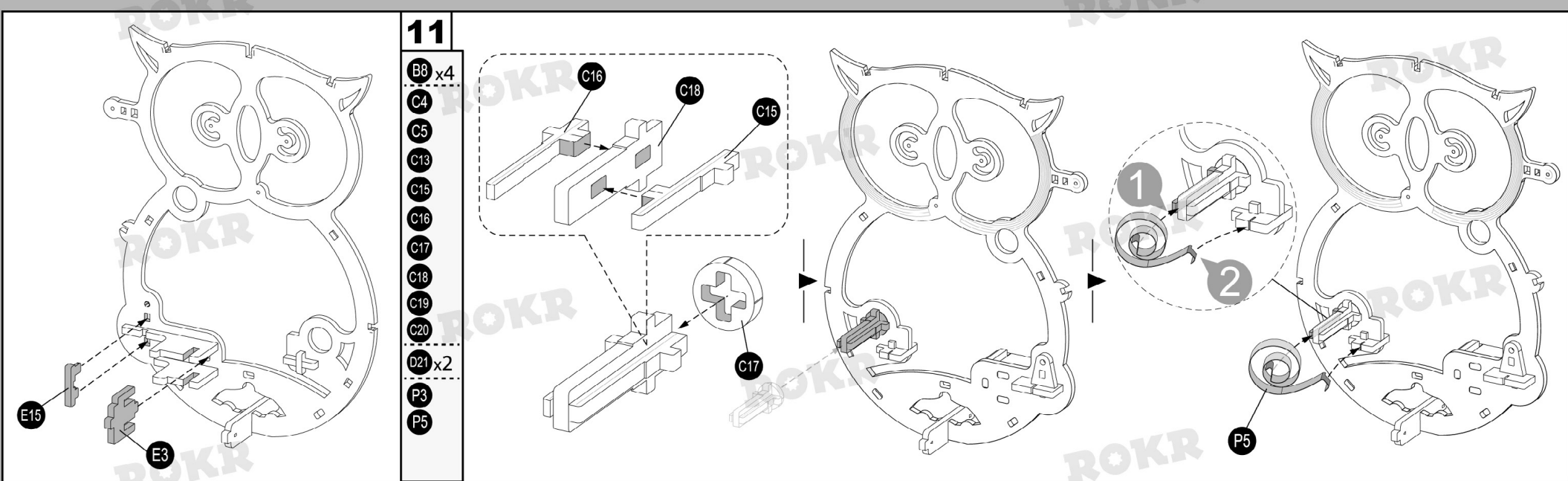


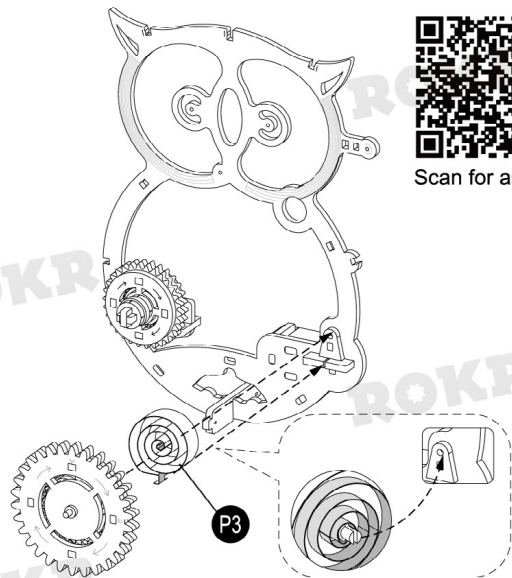
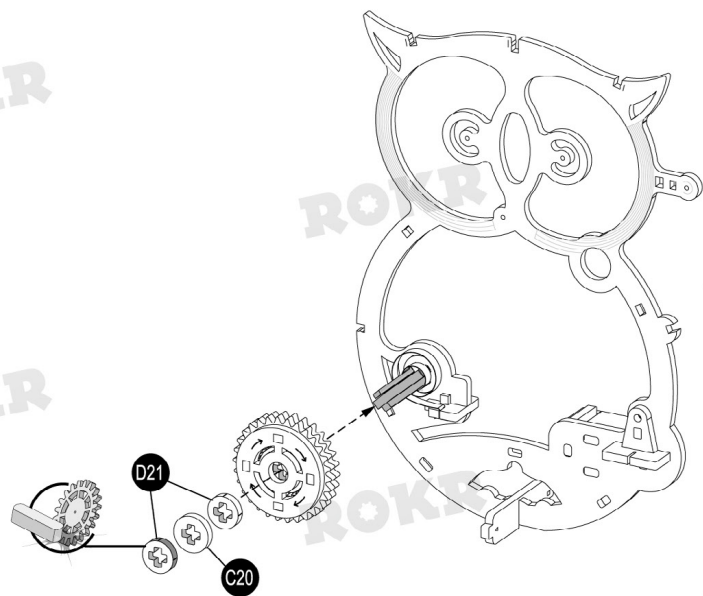
10

- E1
- E2
- E3
- E7
- E8
- E12
- E13
- E14
- E15

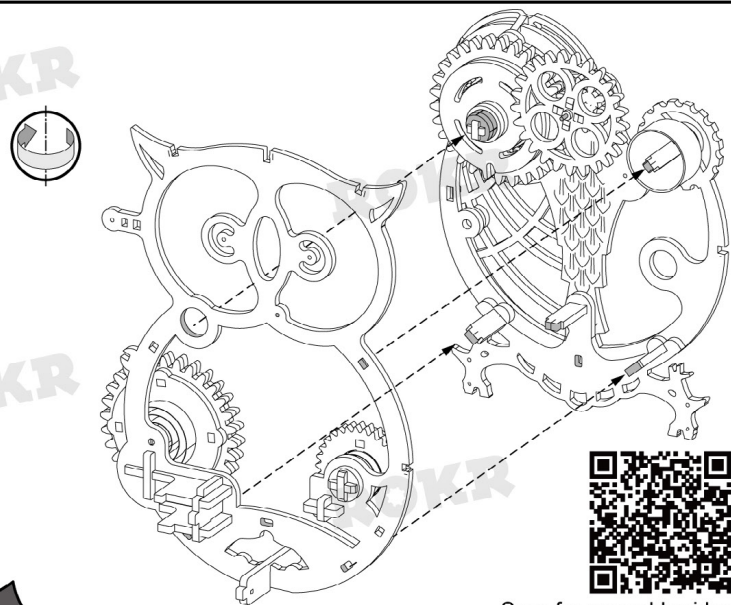
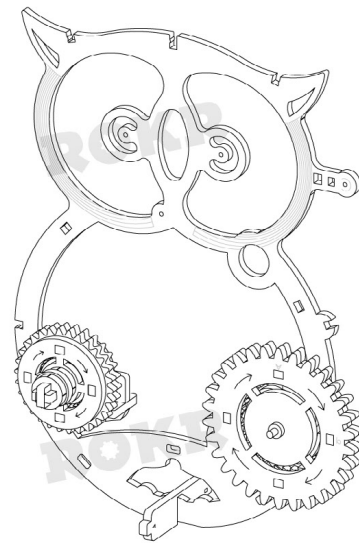
- 11 -







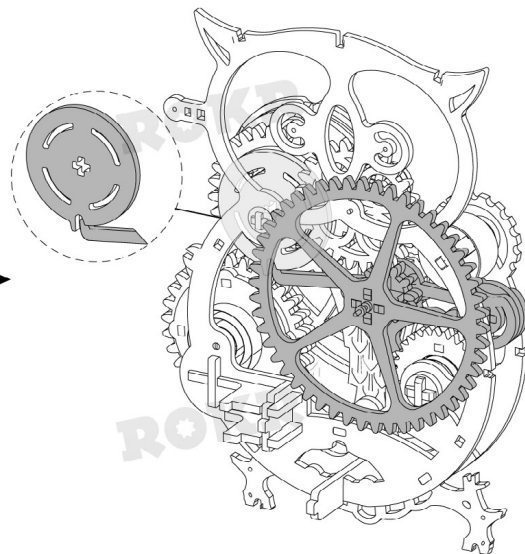
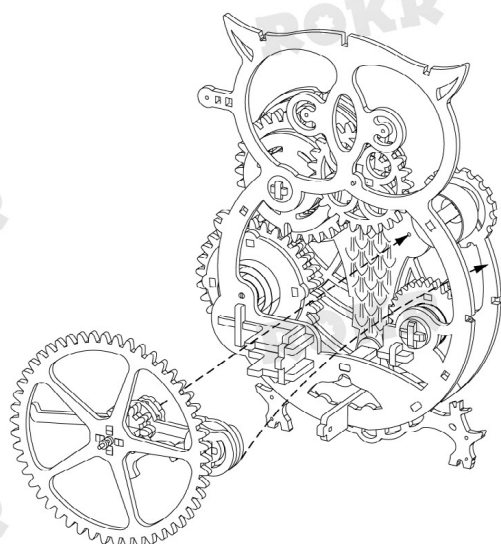
Scan for assembly video

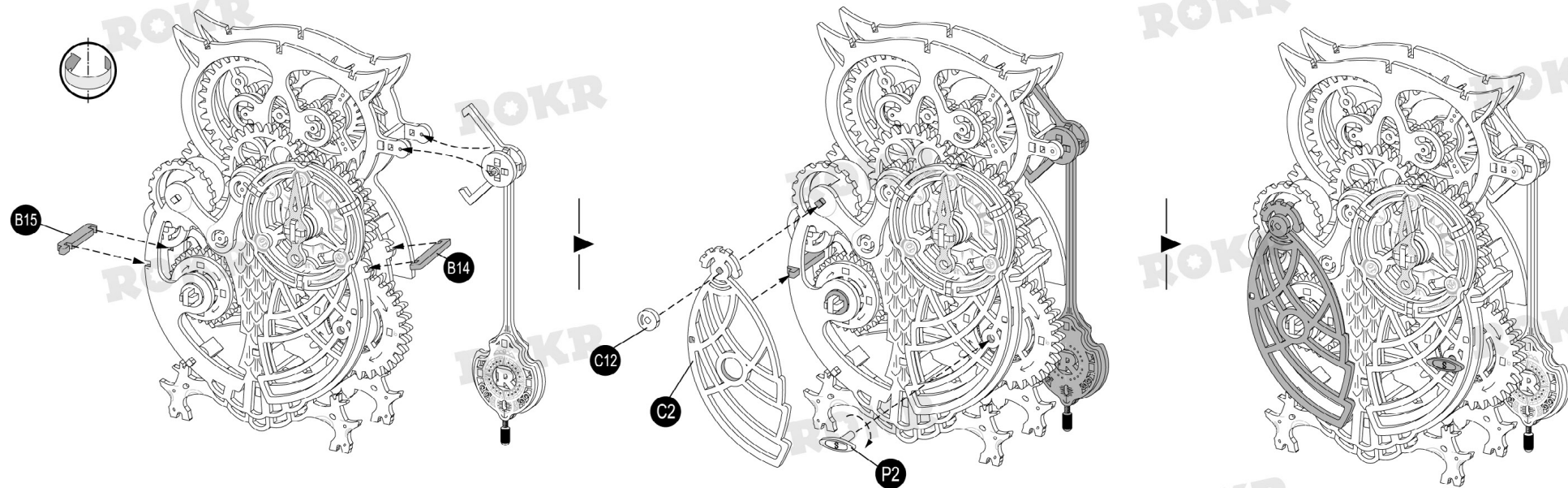
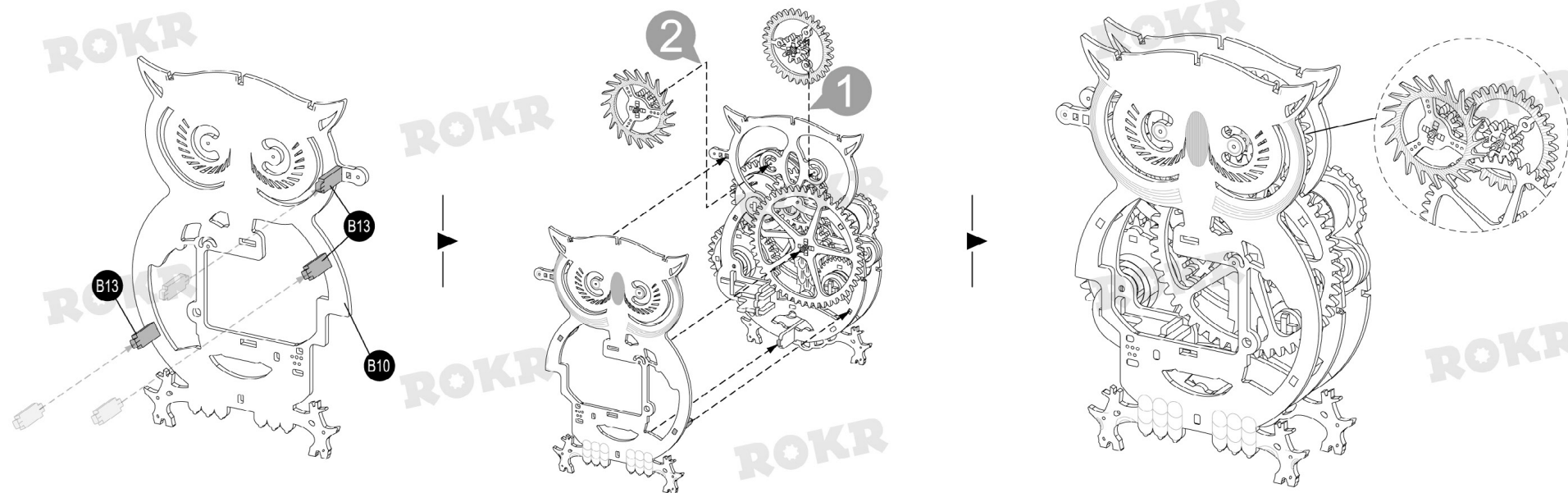


Scan for assembly video

12

- B10
- B13 x3
- B14
- B15
- C2
- C12
- P2





13

A5 x3

A16

A17

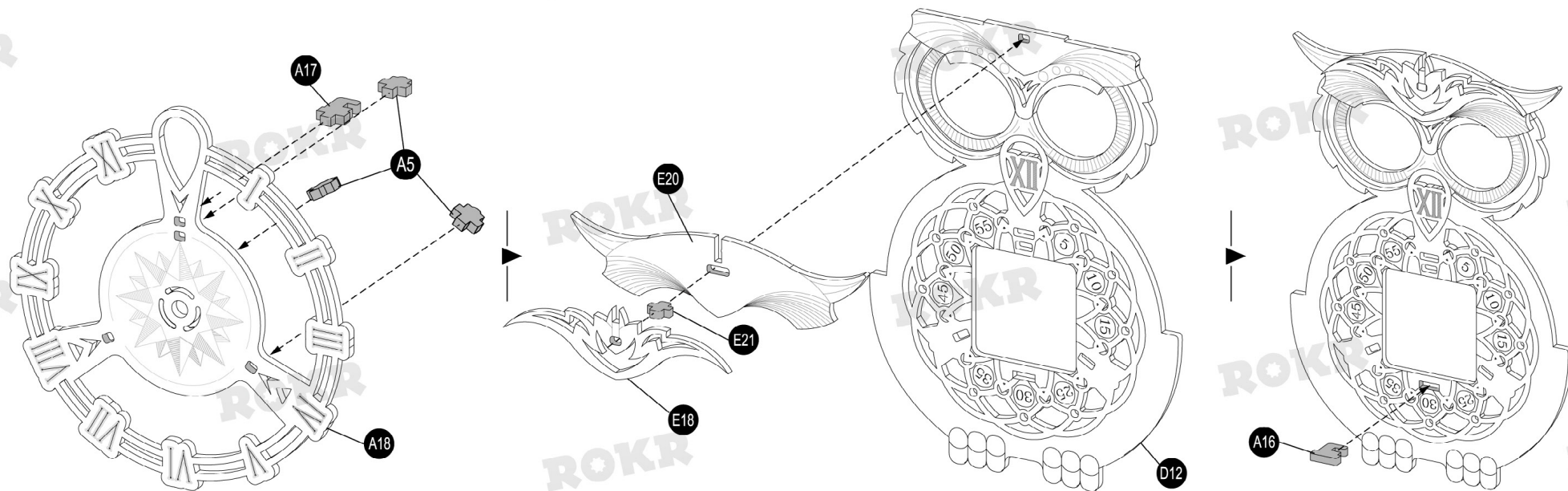
A18

D12

E18

E20

E21



14

P15

P16

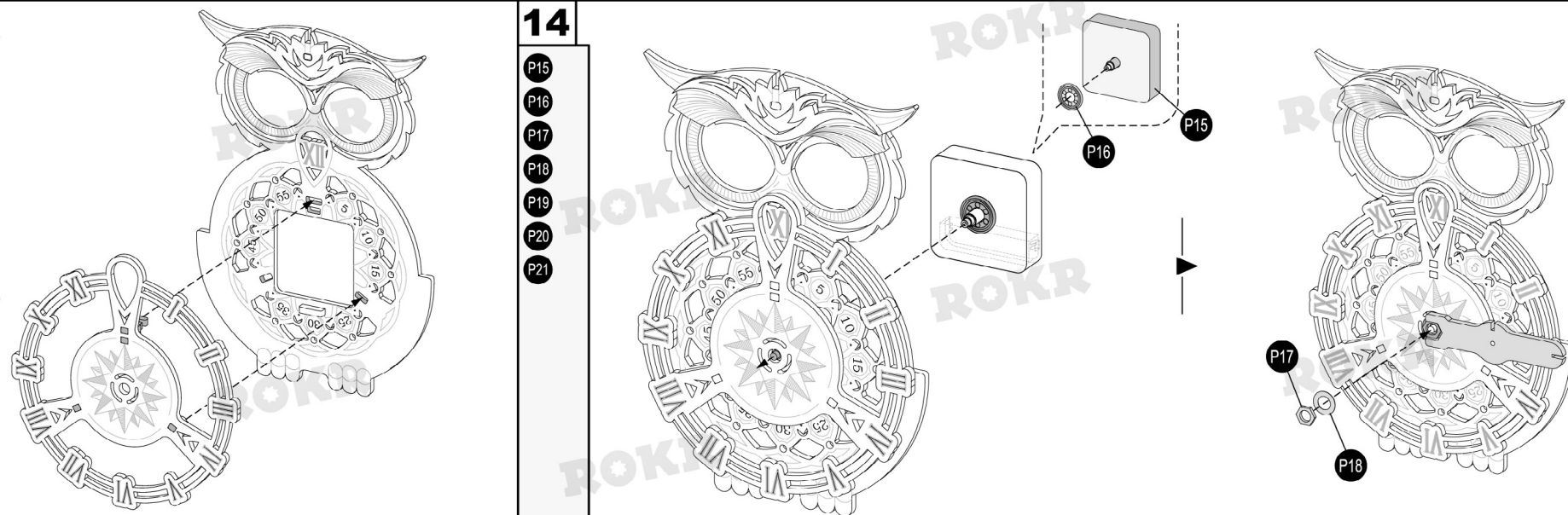
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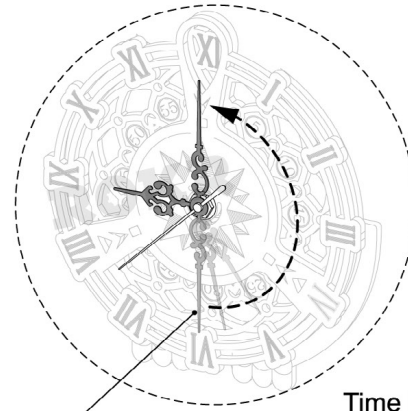
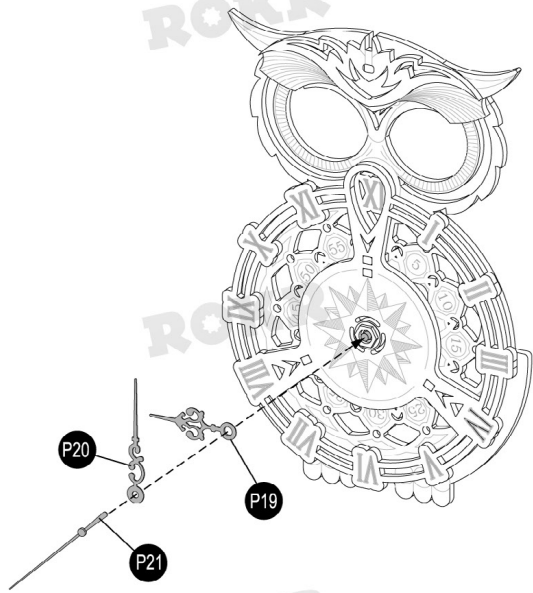
P18

P19

P20

P21

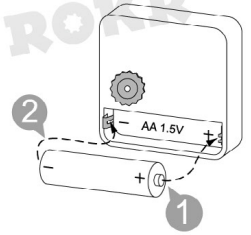




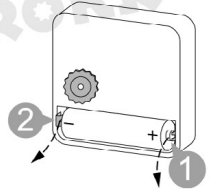
Time Setting Knob

Assemble hour hands and minute hands on 9 o'clock like the picture at first. Then use time setting knob to set local time. Do not disassemble the pointers after assembly to avoid any damage.

Load Battery

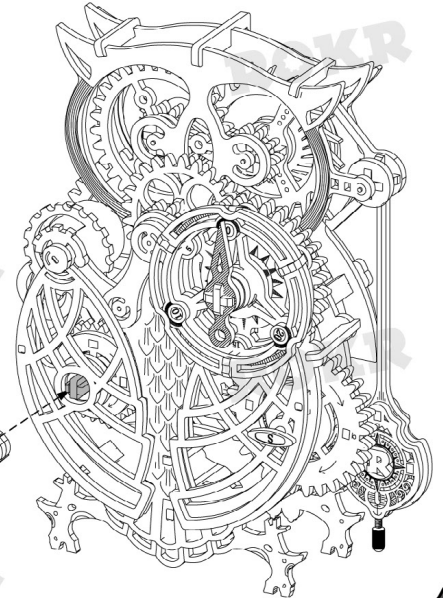
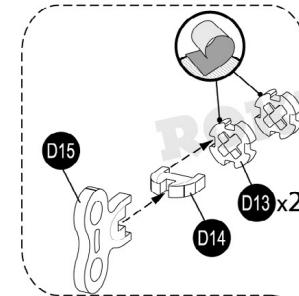
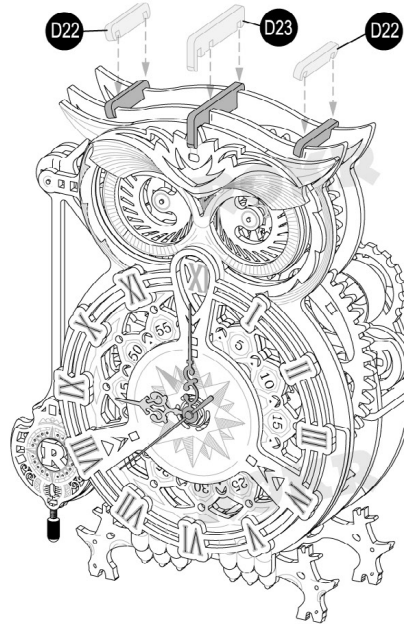
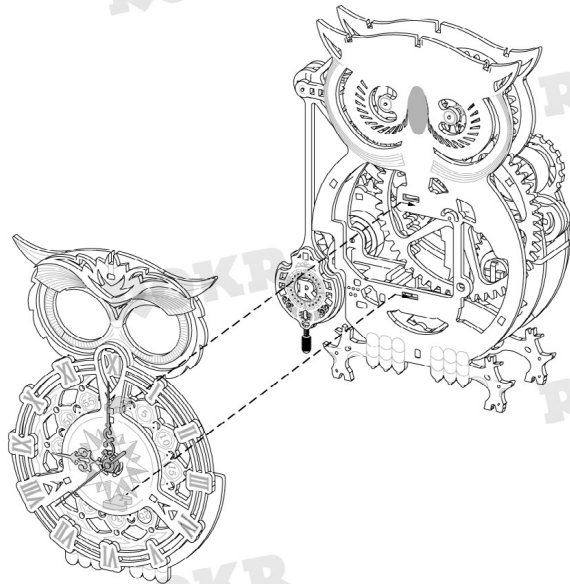


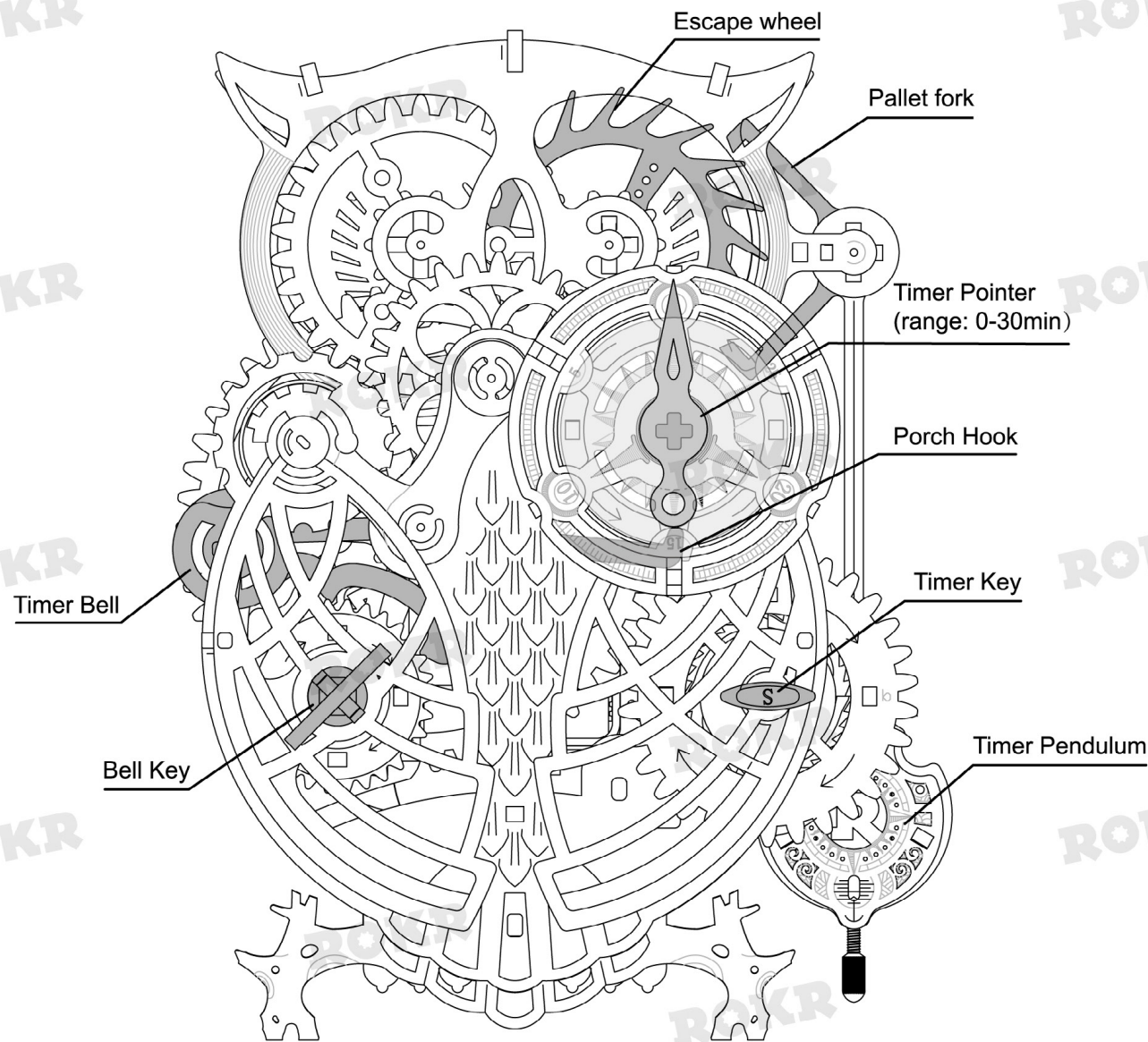
Unload Battery



15

- D13 x2
- D14
- D15
- D22 x2
- D23





Timing instruction:

- ① Rotating timer pointer counterclockwise, could be set maximum 30 minutes (fully round one circle).
If it is hard to revolve because of insufficient waxing, pulling up timer bell a little bit and release porch hook.
- ② Rotate timer key clockwise to finish winding. (A little hard twist means it's done.)
- ③ Rotate bell key clockwise to finish winding. (A little hard twist means it's done.)
- ④ Pull timer pendulum slightly to activate the countdown. The bell rings when time is up.
- ⑤ Start a new countdown: Repeat from step ② to step ⑤ and set the timer pointer to the correct place. (Skip step ② if time key still with the power and time pendulum still working.)

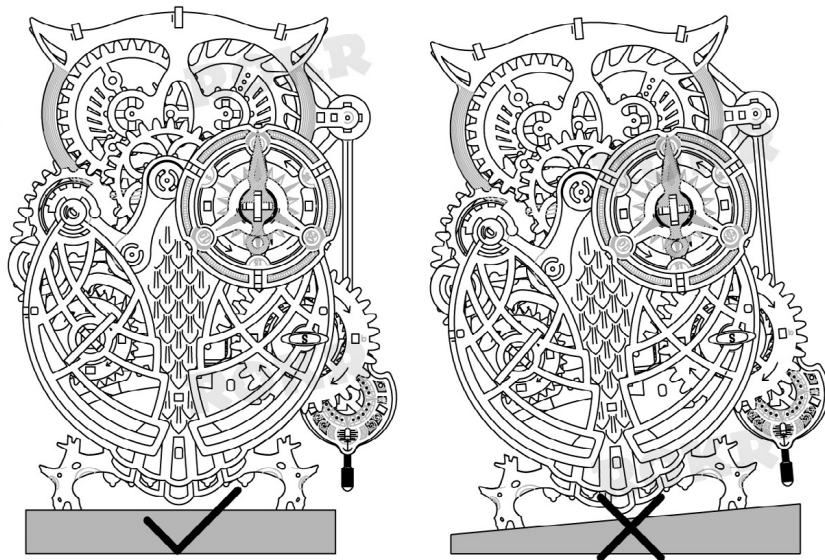
Note:

1. Wax parts properly as required.
2. Pendulum only swings during a countdown. The clock on the other side shows time.
3. Avoid over winding, otherwise the spring will be malfunctioned or destroyed.

TIPS

1

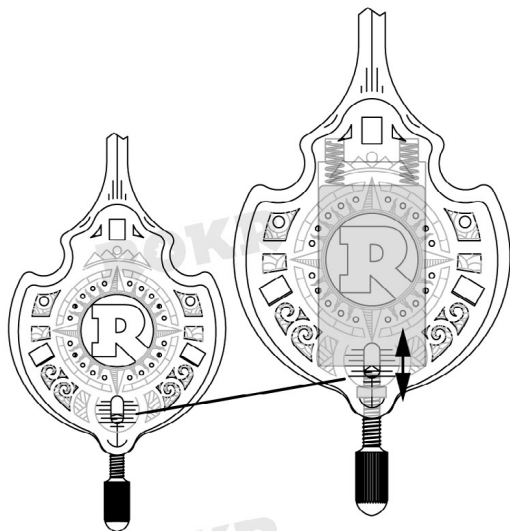
Place the clock on a horizontal surface.



2

If the pendulum swings too fast or too slow, tighten or loosen the regulating screw to adjust speed.

1. The bottom of shim on the horizontal line is original position.
2. Speed up: Tighten the screw.
3. Slow down: Loosen the screw.



3

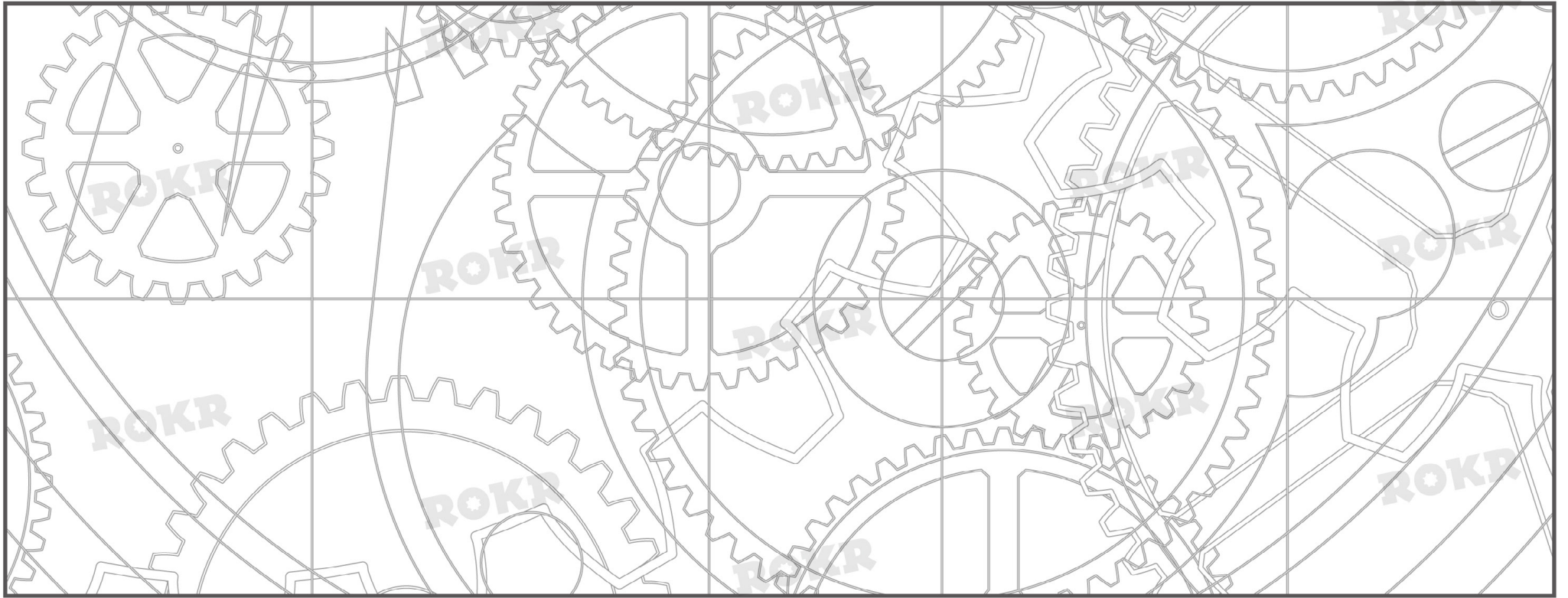
When the timer doesn't work.

1. Q: The escapement wheel of pendulum doesn't spin after wound up and pulled (refer to Step 4 on page 17).
A: Gears don't produce energy to drive escapement wheel. Please check if gears hinder each other.
2. Q: When countdown is over, the pendulum still swings.
A: The spring is too tighten. The pendulum will stop after a while.
3. Q: The pendulum stops during a countdown.
A: Check if gears hinder each other, or spring needs to be wound up again.

4

How to change battery.

Refer to Step 15 and Step 14 on page 16.
Disassemble the dial first and then replace battery.



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