

Steam Automobile
MODEL : DM234-A

   
Assembly Difficulty
★★★★★

Contents

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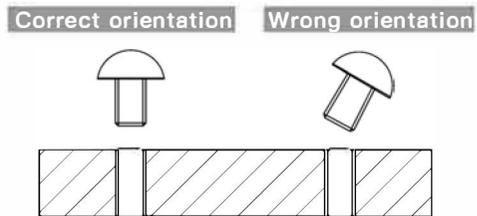
Product parts list / p52-61



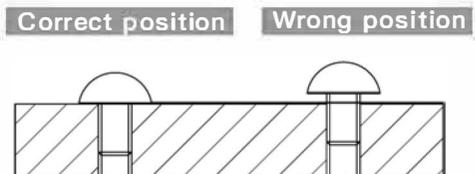
Basic knowledge of standard parts assembly

1、Screw installation

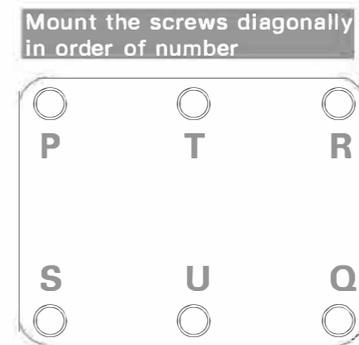
(1) Screw installation direction



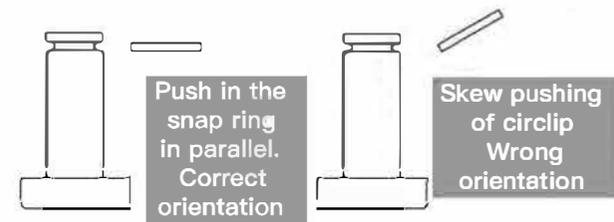
(2) Screw tightening depth



(3) Screw installation sequence

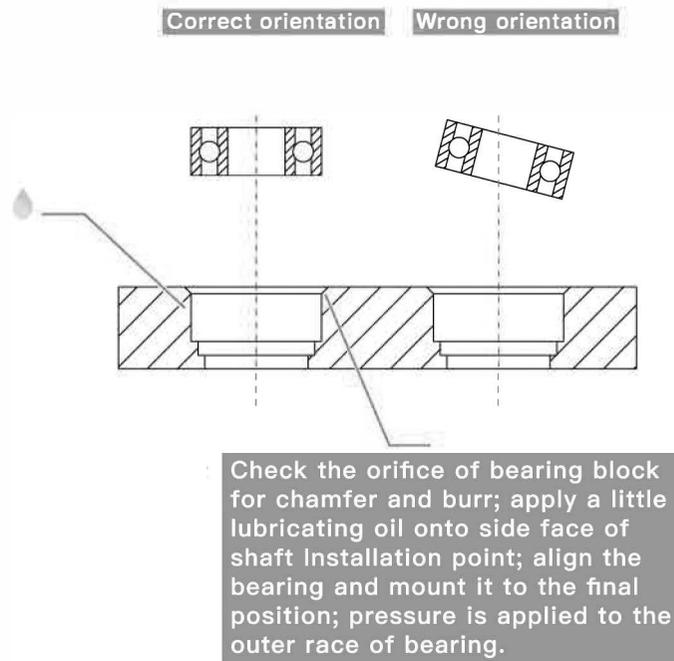


2、Circlip installation method

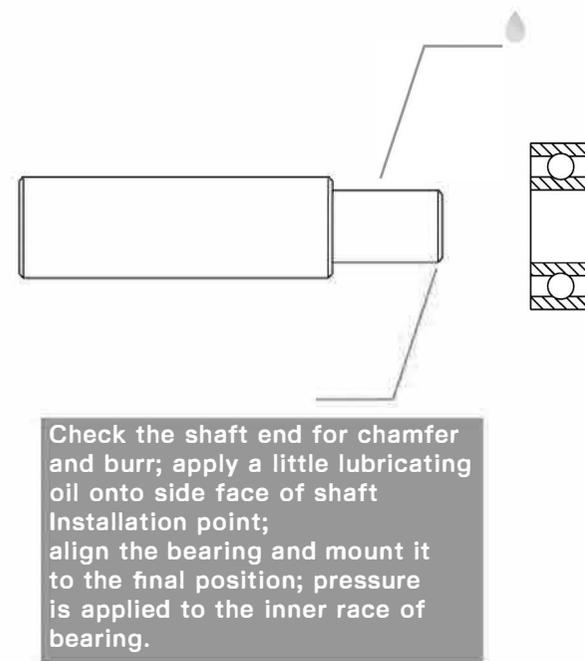


3. Bearing installation

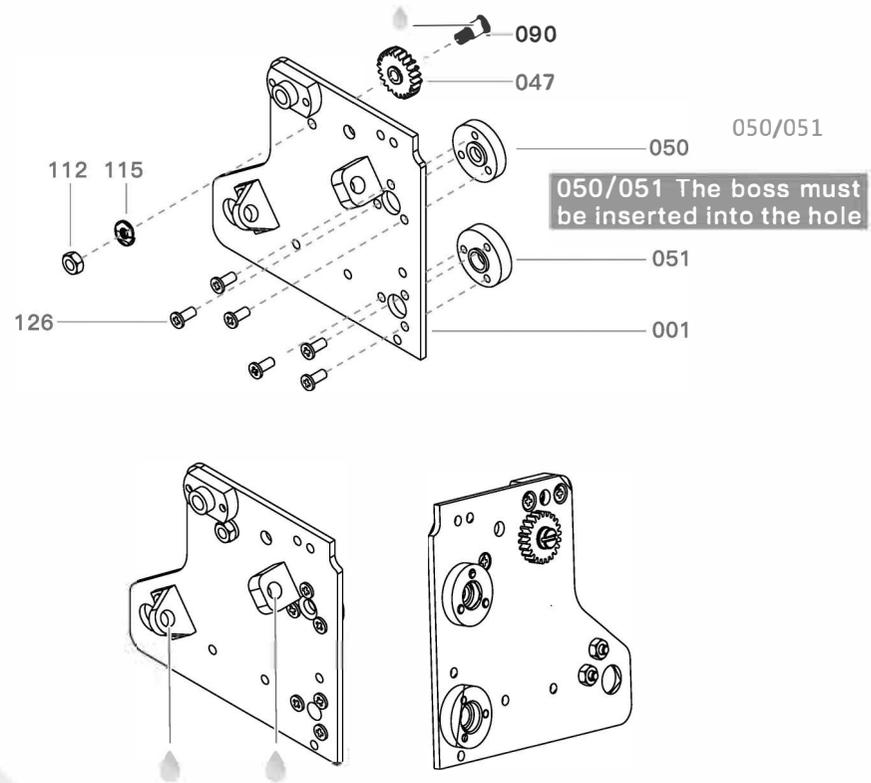
(1) Insert the bearing into the bearing housing



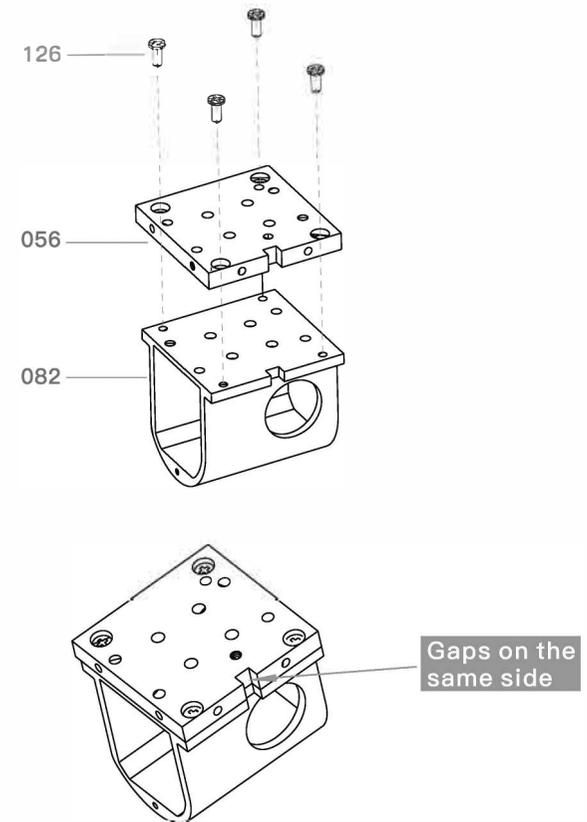
(2) Bearing into the shaft



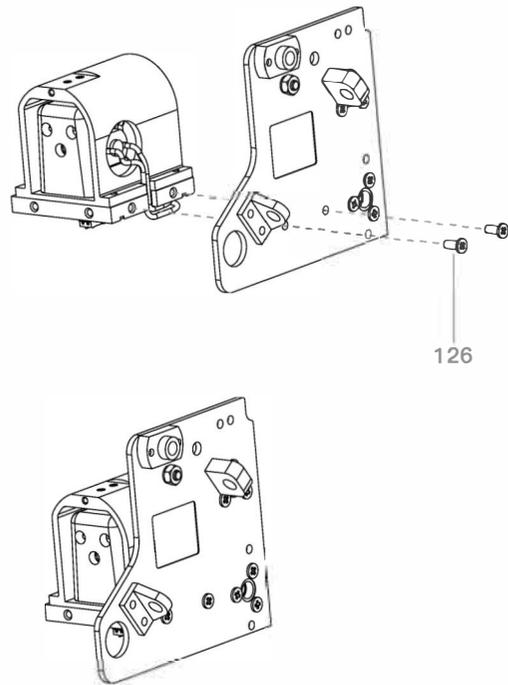
1.2 Install the left side panel components



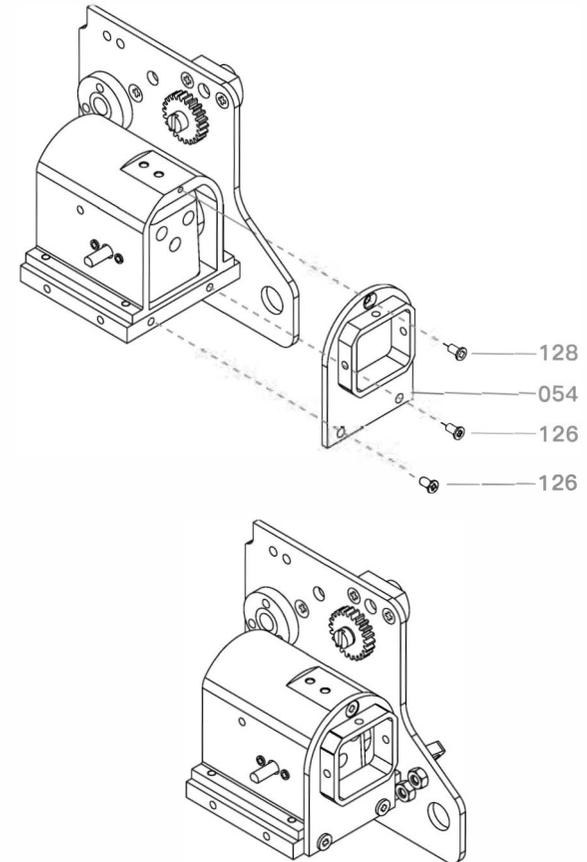
1.3 Install the water tank



1.6 Assemble the left side panel and boiler components

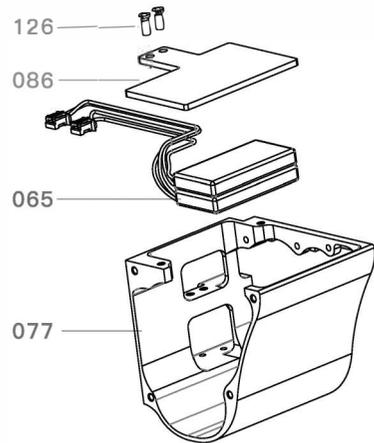


1.7 Install the smoke pipe rear cover

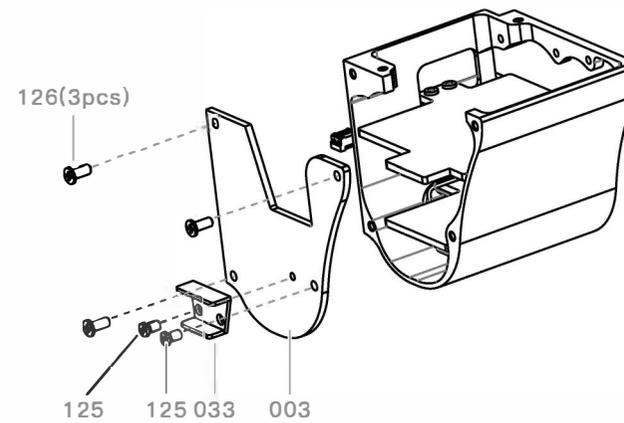


2. Body Components

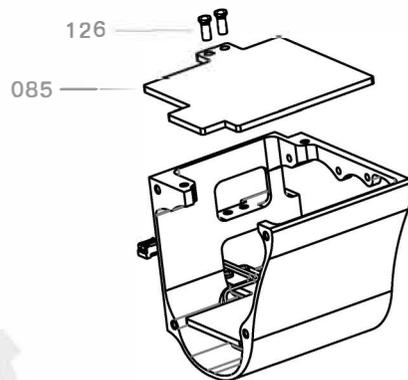
2.1 Fixing the battery



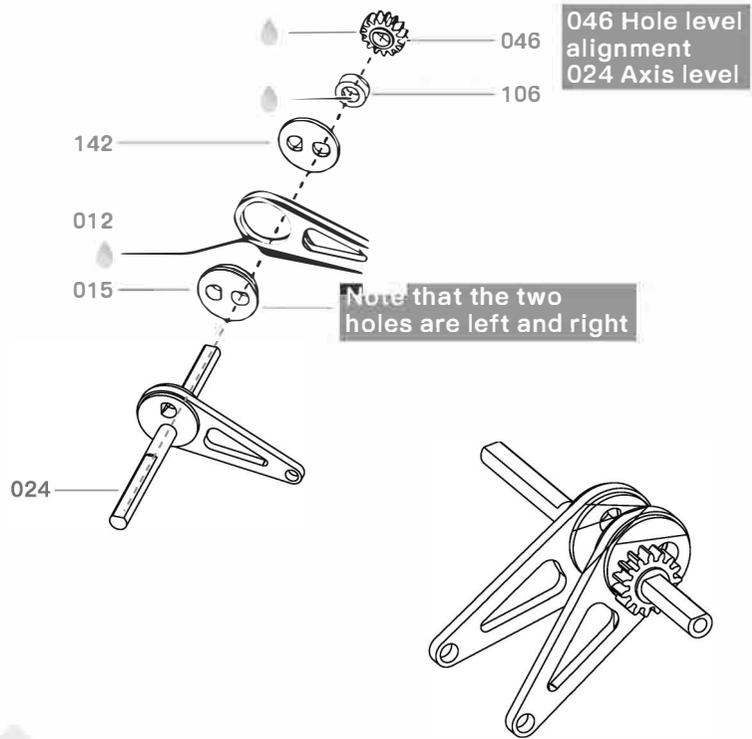
2.3 Install the left side panel of the rear bucket



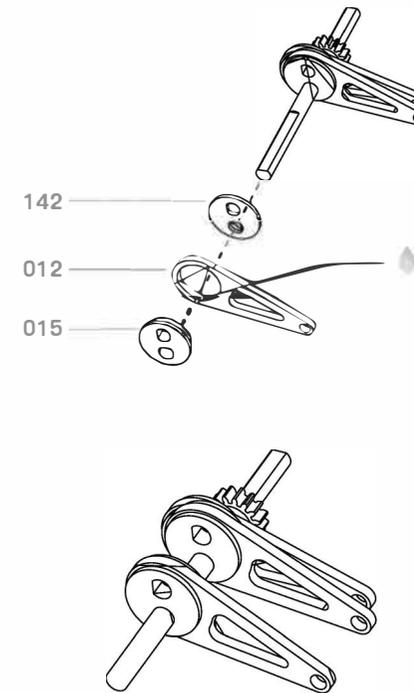
2.2 Installing the carriage floor



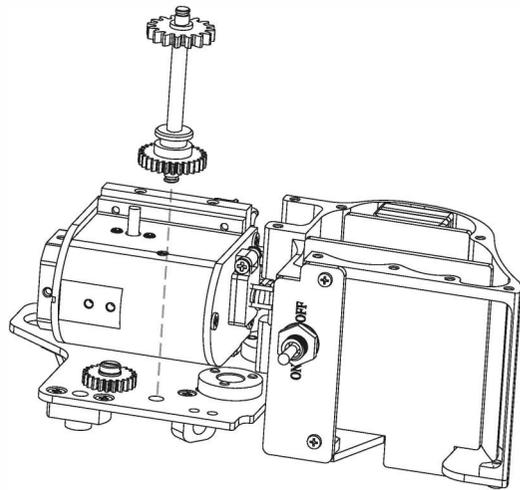
3.2 Assemble the eccentric wheel assembly-2



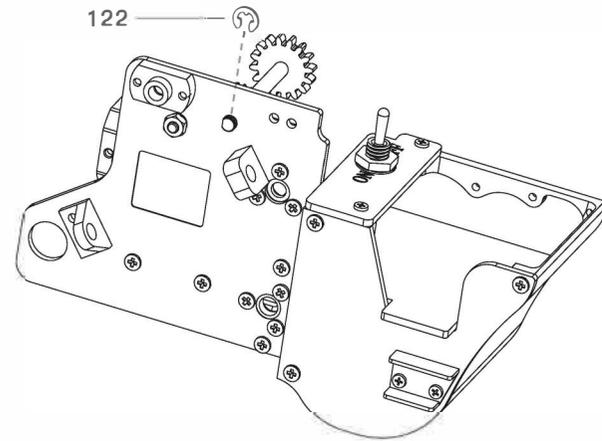
3.3 Assemble the eccentric wheel assembly-3



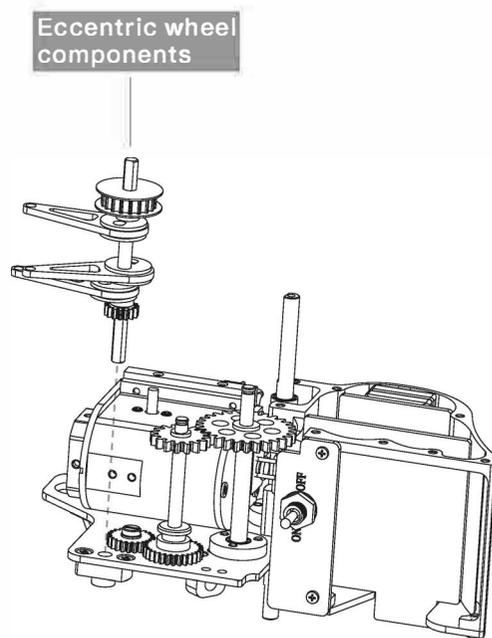
3.7 Assemble the gear shaft-3



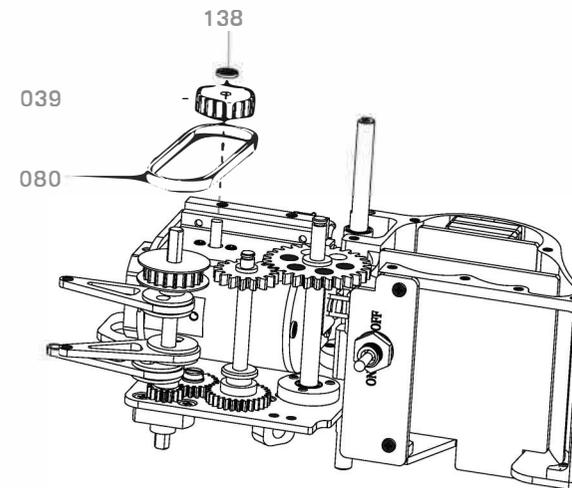
3.8 Install circlip



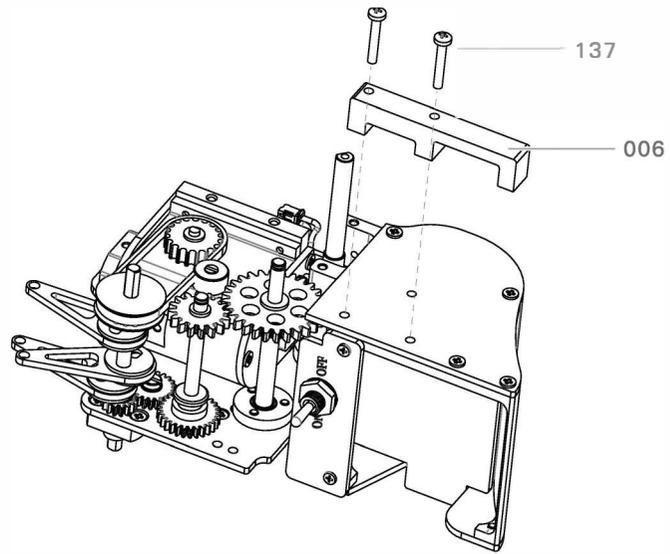
3.11 Assemble the eccentric wheel components



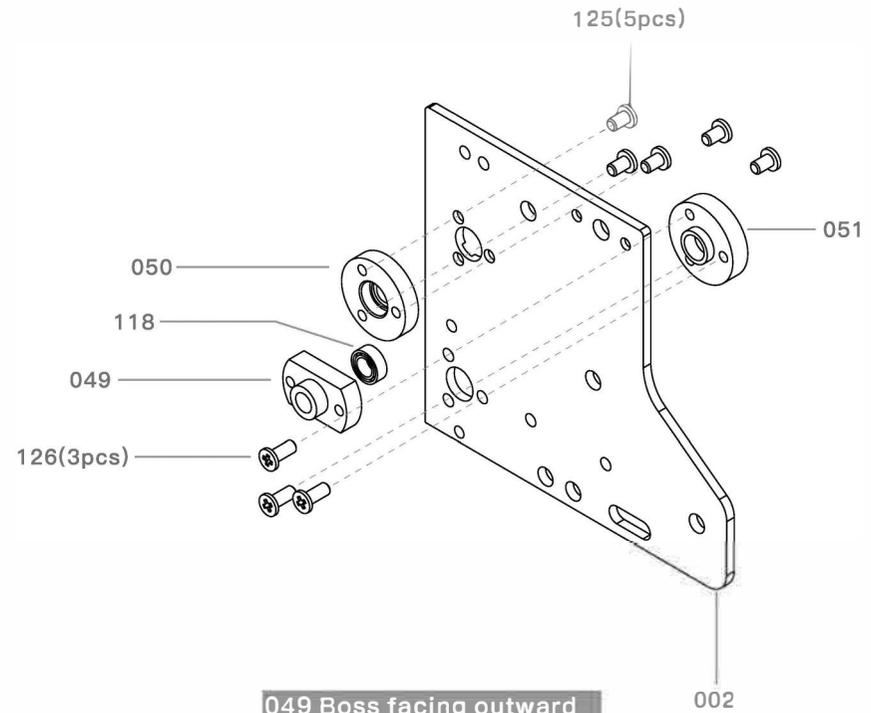
3.12 Install Synchronous Wheel-1



3.15 Install body guardrail



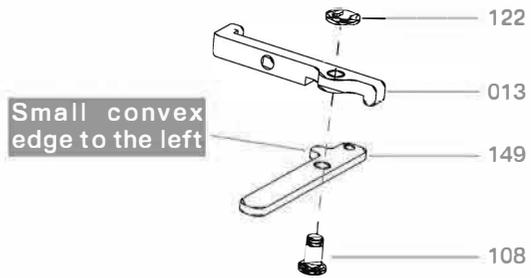
3.16 Assemble the right side panel components



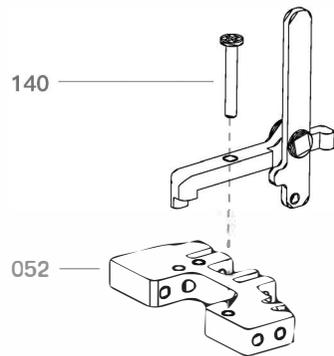
049 Boss facing outward
050/051 The boss must be inserted into the hole



3.20 Install clutch components

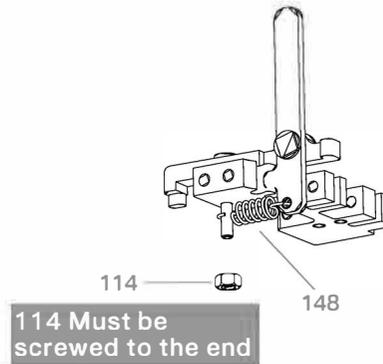


3.21 Installation of clutch components and tie rod bottom plate

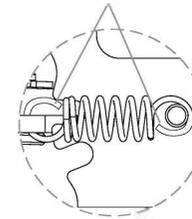


After tightening the 140 screw, loosen half a turn in the opposite direction.

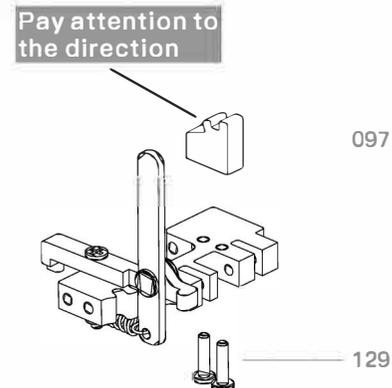
3.22 Install the clutch tension spring



Hang the 148 extension spring on the 140 screw and the 149 clutch swing rod, and then press down the opening of the 148 extension spring with a screwdriver.

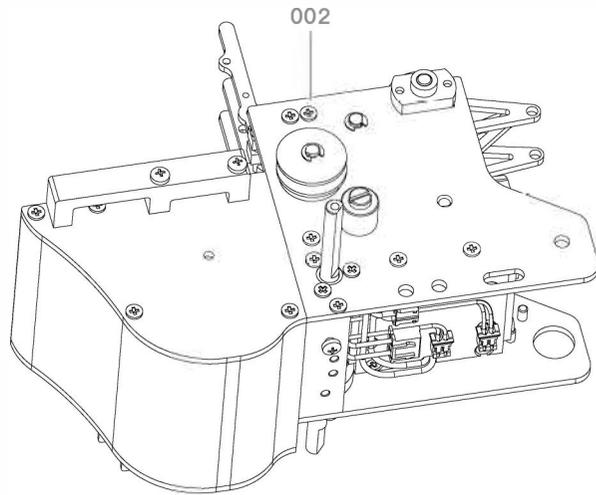


3.23 Install the speed control fixed block

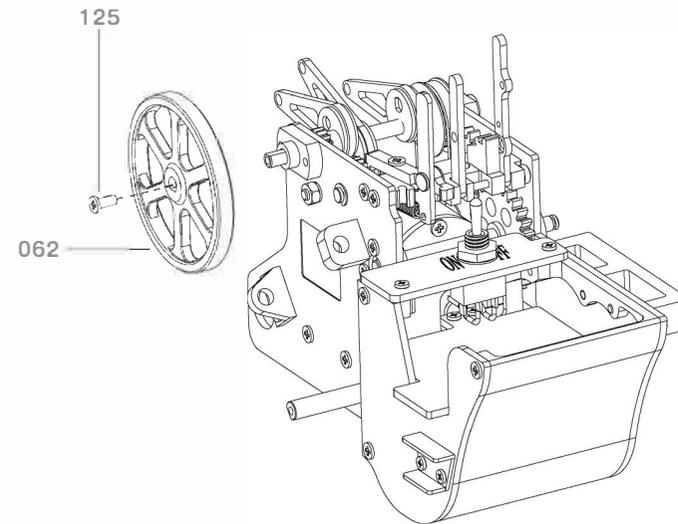


3.26 Tighten the screws on the right panel

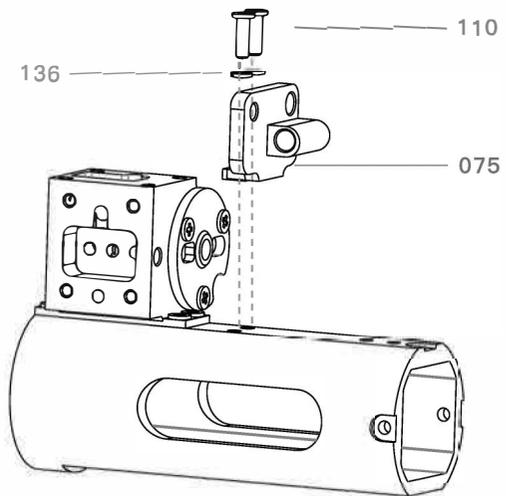
Tighten the fixing screws on the right panel of 002



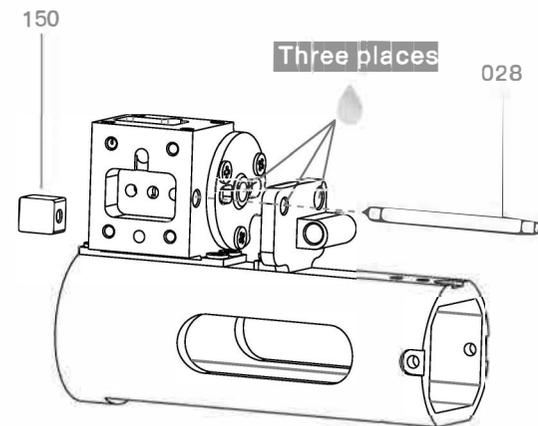
3.27 Install the flywheel



4.3 Installing the tie rod support



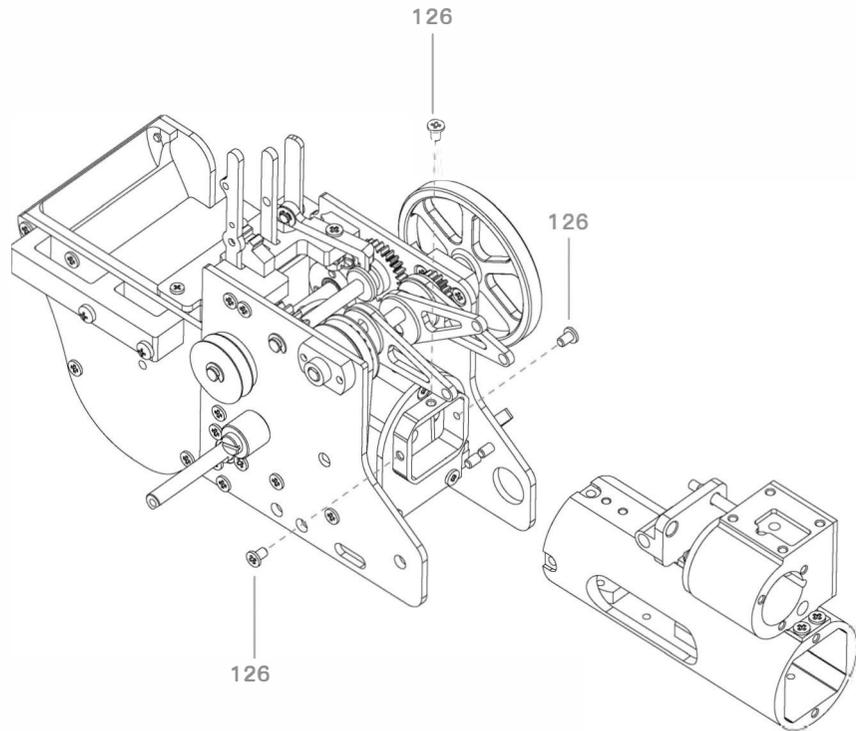
4.4 Install ventilation components



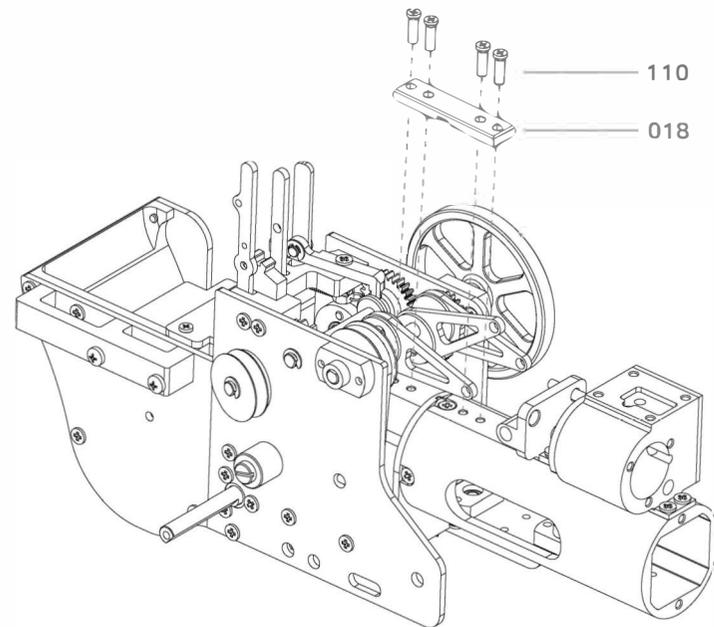
The smaller distance from the tooth hole of the 150 ventilation slider to the side is facing outward.



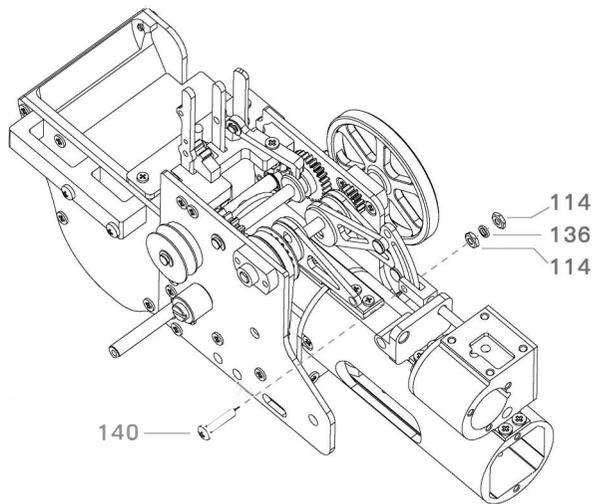
4.7 Fixing of the smoke pipe



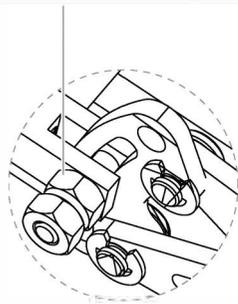
4.8 Installing the connection block



4.11 Installation of swing arm connecting rod and pull rod seat

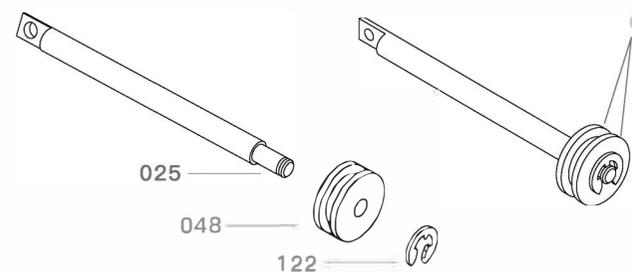


After the first nut is tightened, loosen half a turn in the opposite direction and then insert the 136 spring washer.

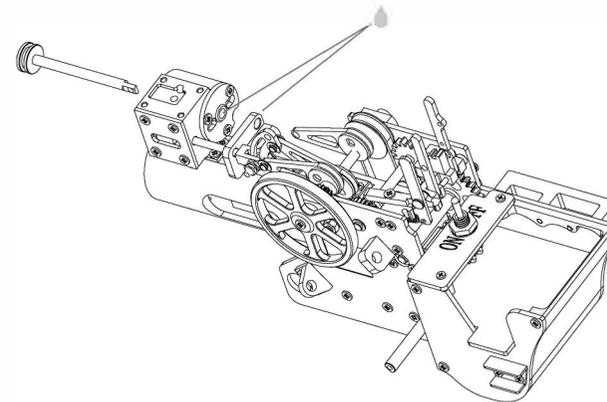


After the installation is complete, users can turn the flywheel to check whether the operation is normal.

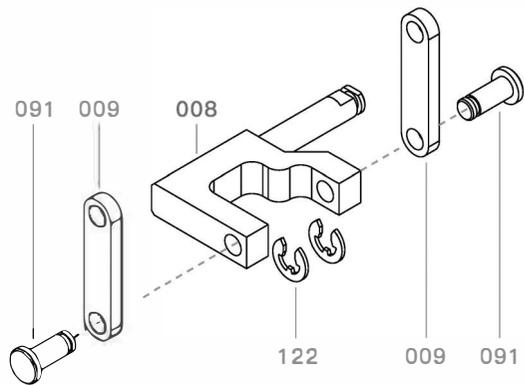
4.12 Assemble the piston rod



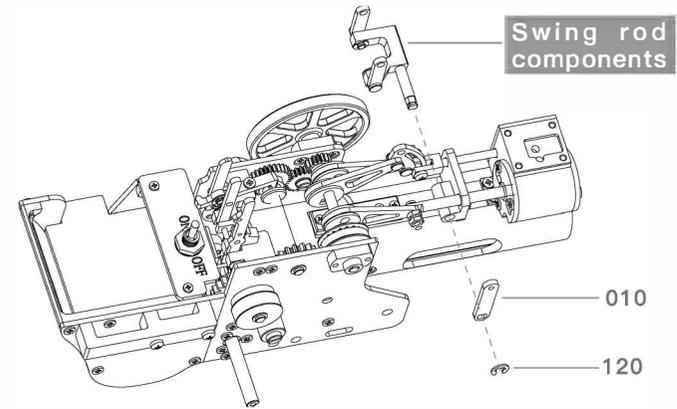
4.13 Install the piston rod components



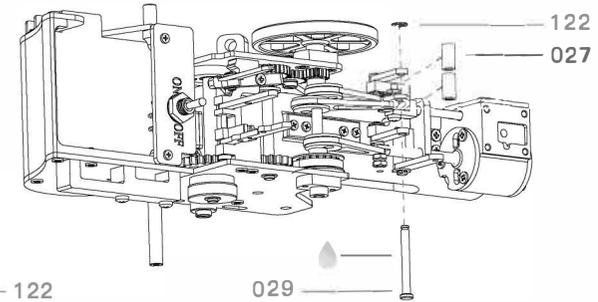
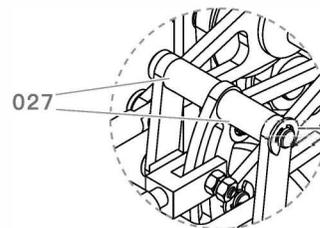
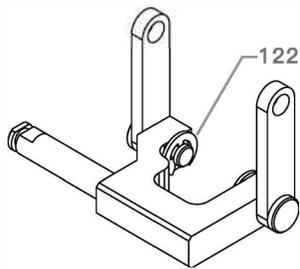
4.16 Assemble the swing rod components



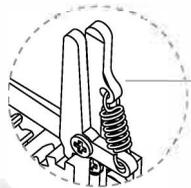
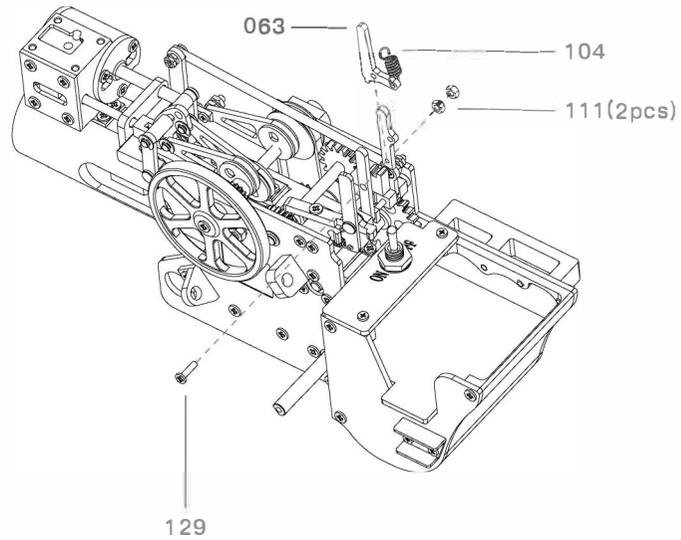
4.17 Installation of swing rod components and tie rod seat



4.18 Install swing rod fixing pin

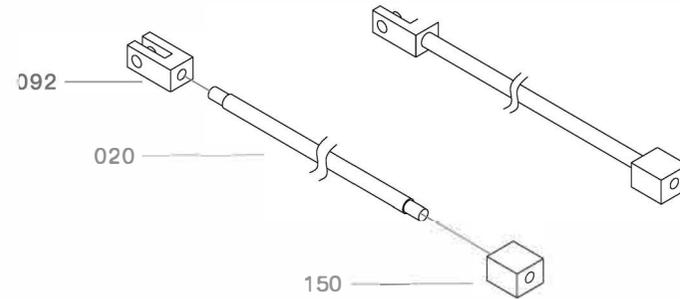


4.21 Install the speed control handle

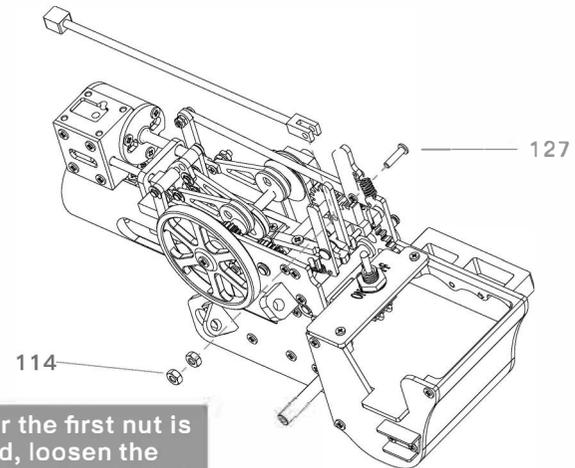


Users must hang the tension spring 104 into the hole firstly, tighten the nut and then use a screwdriver to reduce the opening of the tension spring.

4.22 Assemble the flameout lever



4.23 Install flameout lever

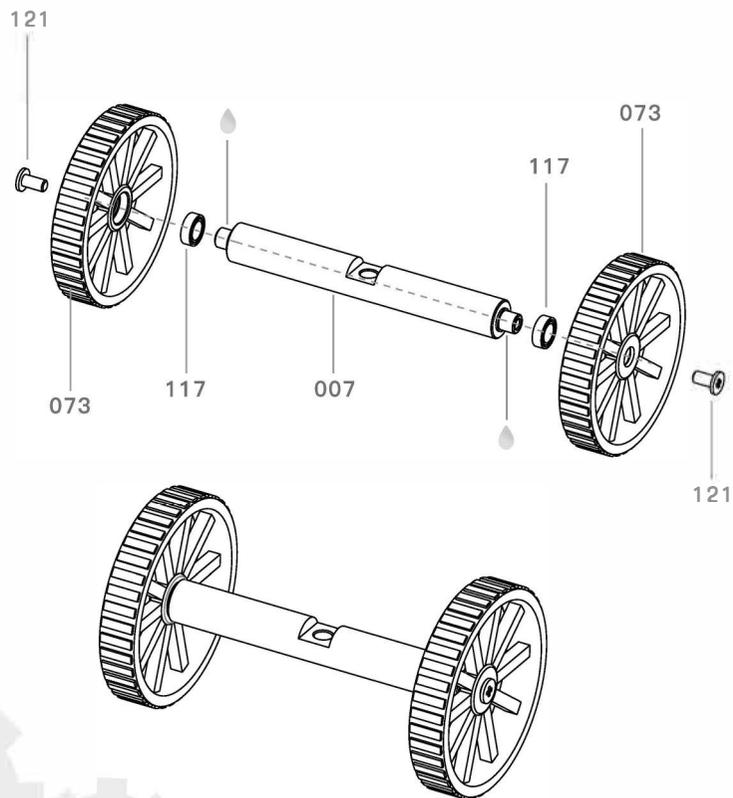


114 After the first nut is tightened, loosen the reverse direction by half a turn, and then tighten the second nut.

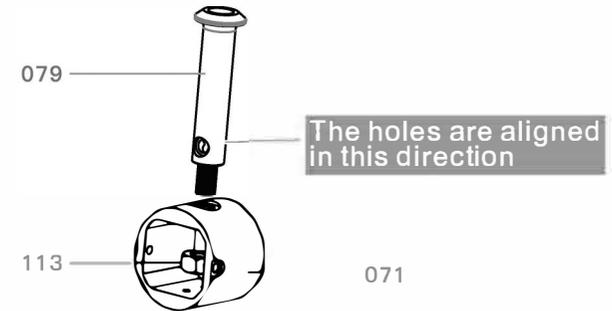


5. Front wheel assembly

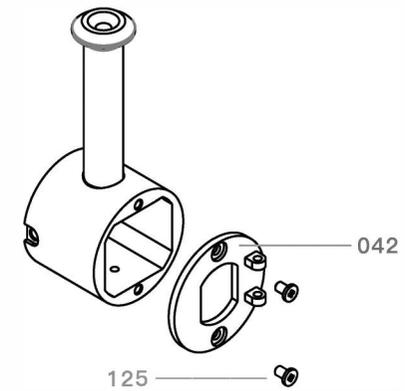
5.1 Assemble the front axle and the front wheel



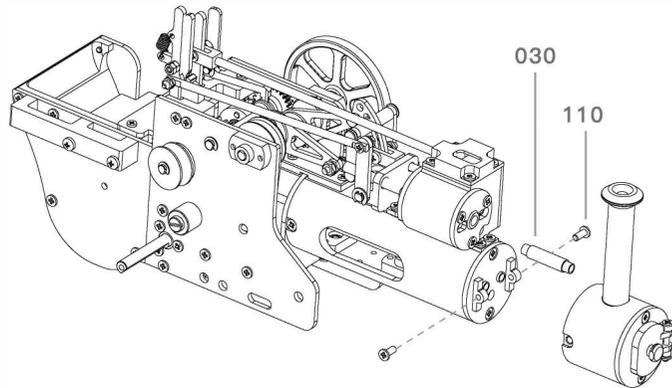
5.2 Assemble the front smoke pipe components



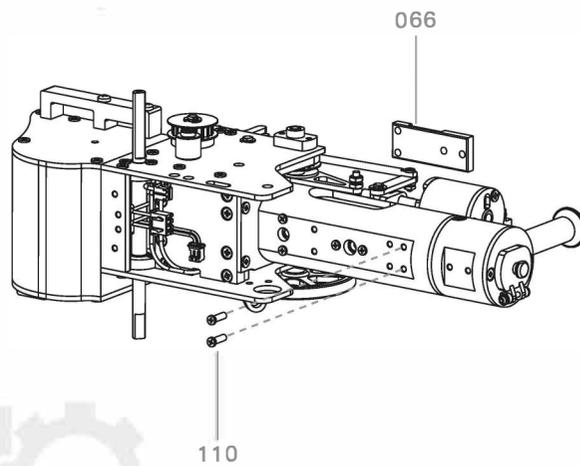
5.3 Installing the front panel



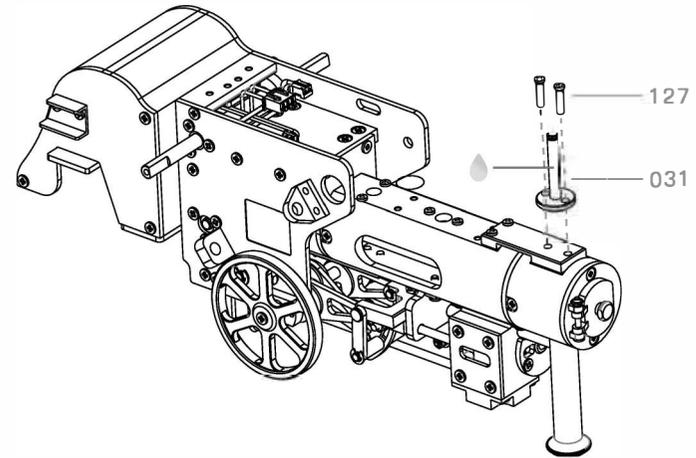
5.6 Install the front smoke pipe assembly and exhaust pipe



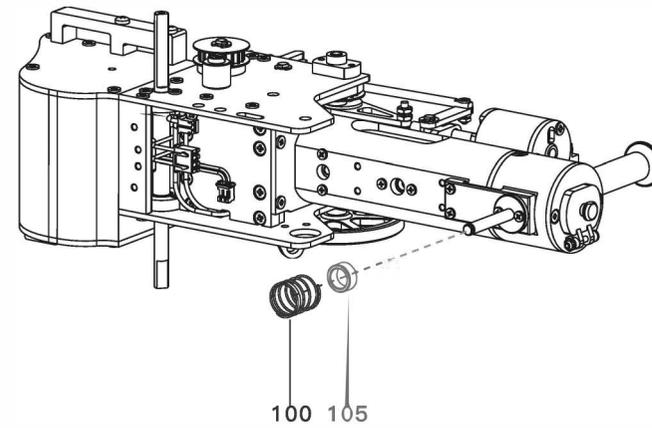
5.7 Installing the connection block



5.8 Install the front wheel shaft

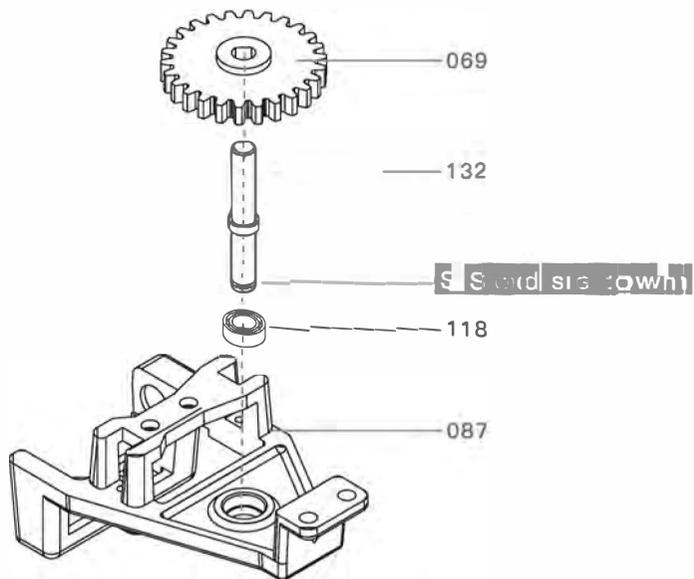


5.9 Install sleeve and front wheel compression spring

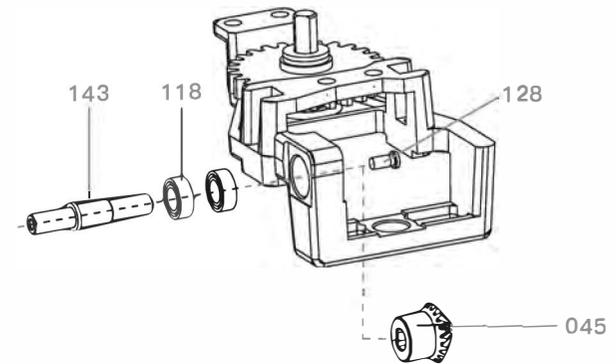


6. Install the steering gear components

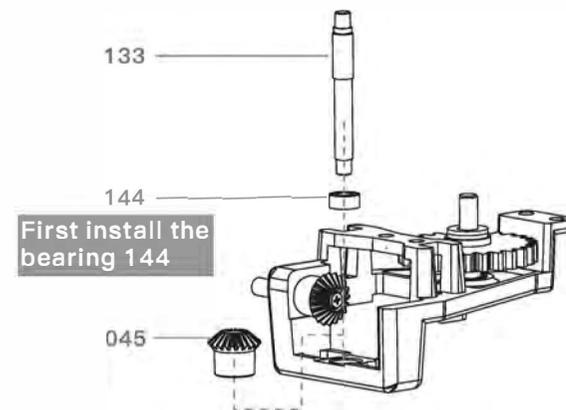
6.1 Install the starter motor gear and synchronous axle



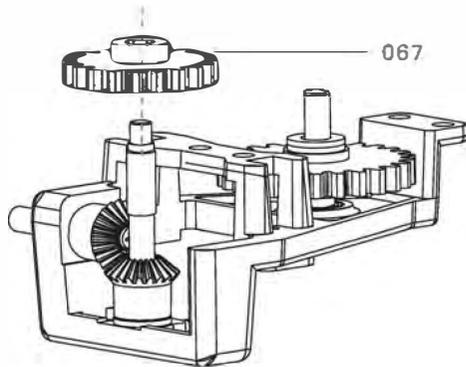
6.2 Install bevel gear shaft and bevel gear



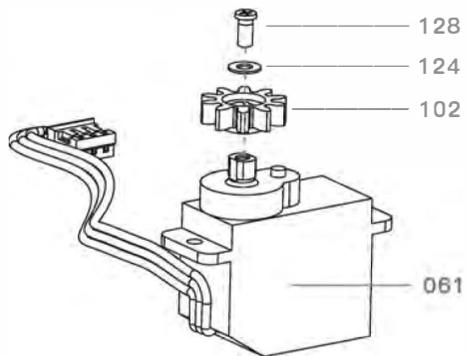
6.3 Install gear shaft and bevel gear



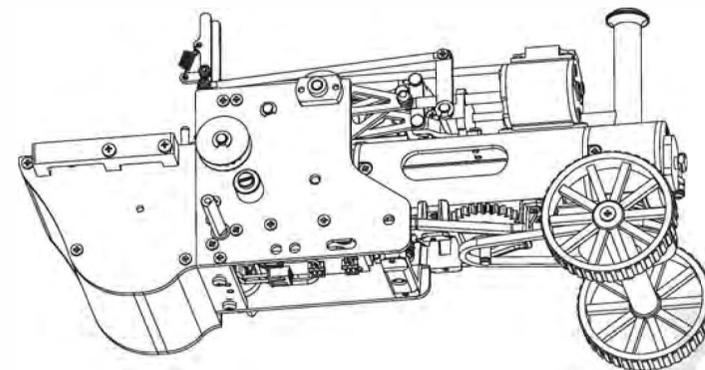
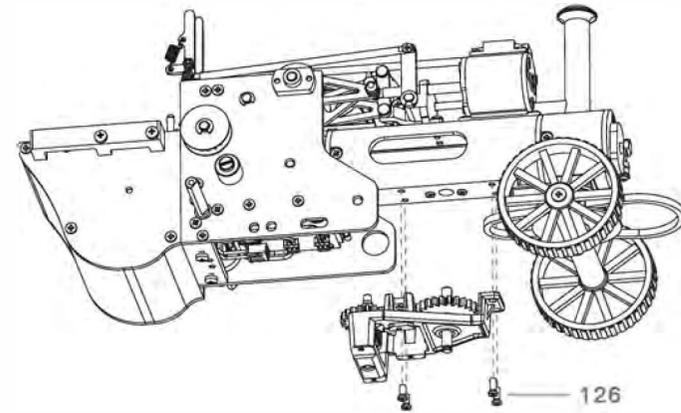
6.4 Install the big gear



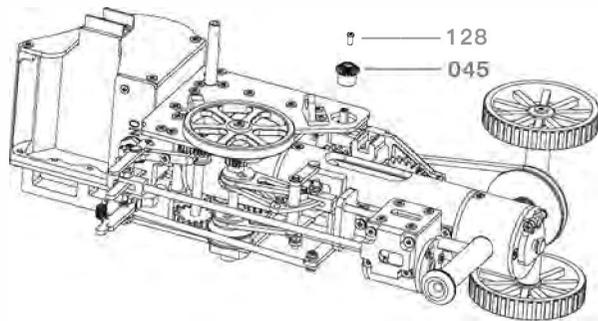
6.5 Install the steering gear



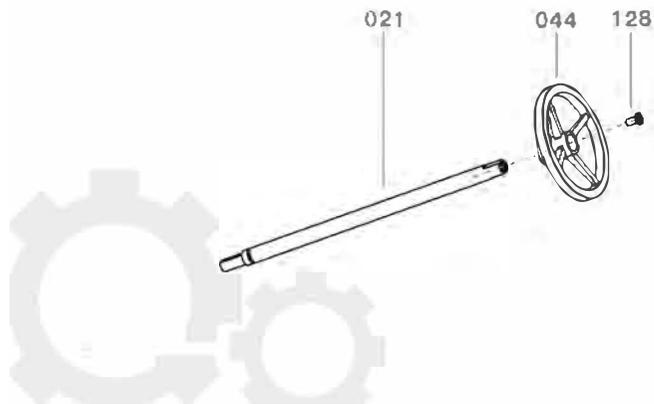
6.6 Install the steering gear base components



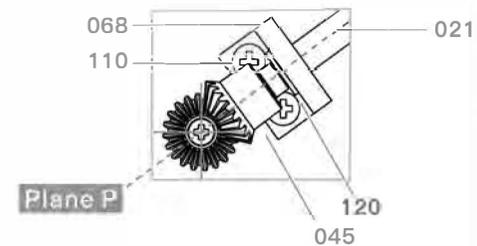
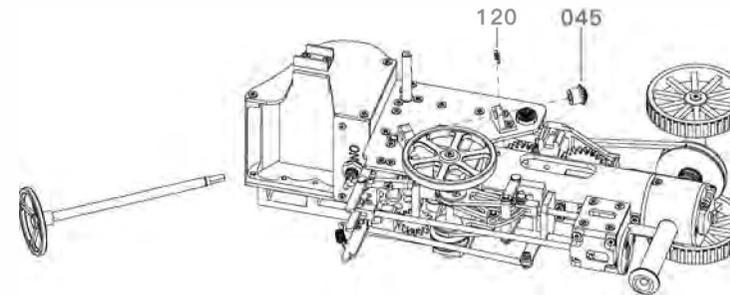
6.7 Installing umbrella teeth



6.8 Assemble steering wheel components

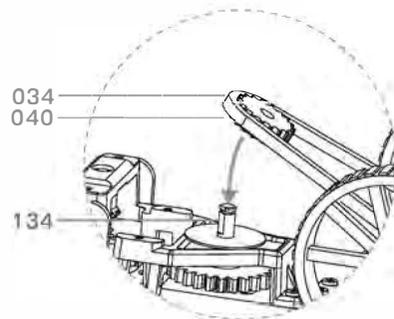
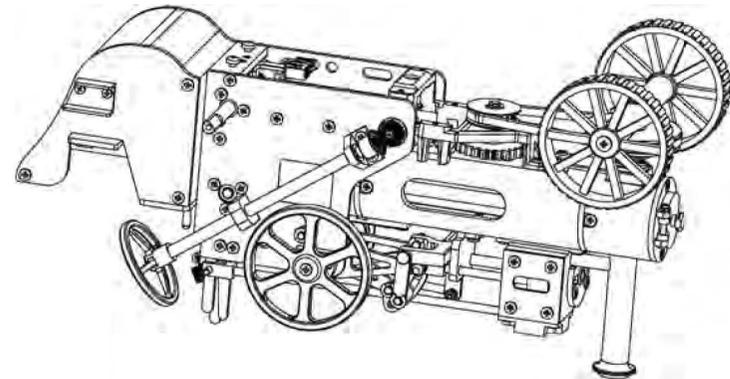
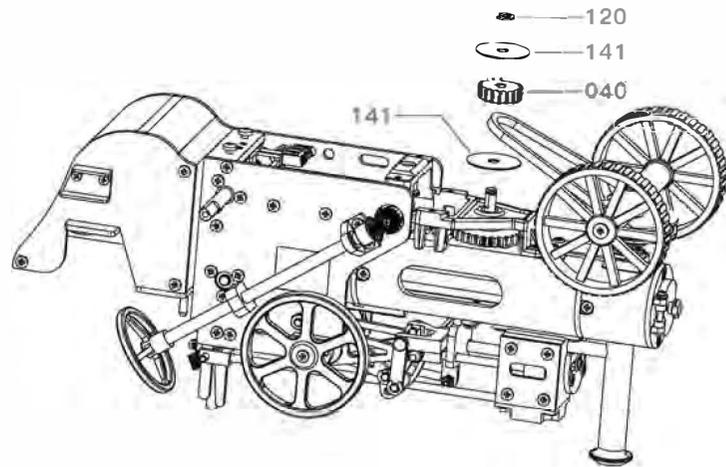


6.9 Install steering wheel components



Bevel gear meshing debugging:
After the 110 screw is tightened, loosen half a turn in the opposite direction; first, turn the 044 steering wheel by hand. If the rotation is flexible, tighten the 110 screw and install the 120 circlip; if it is not flexible, adjust the 068 steering shaft seat to ensure that the 045 gear is normally engaged. As shown in the image, ensure that the center lines of the two bevel gears are in the same plane P.

6.10 Install Synchronous Wheel-2



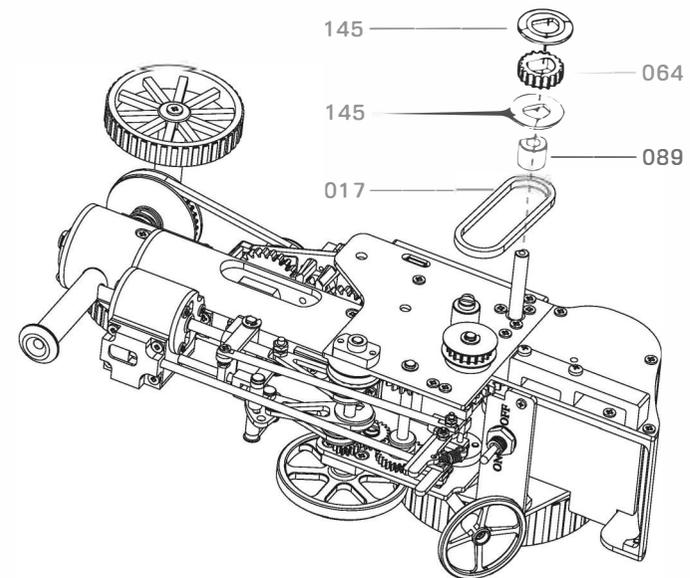
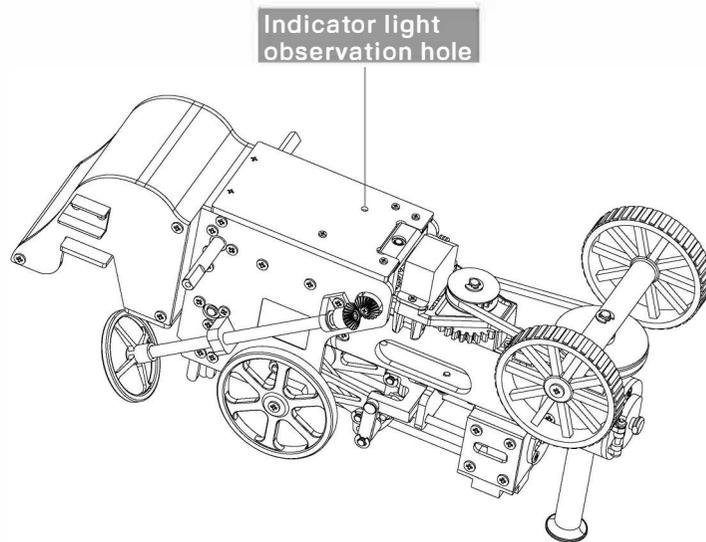
First put the 040 synchronous wheel-2 into the 034 synchronous belt, and then insert the 040 synchronous wheel into the 134 synchronous wheel shaft.

Note: The flat position of the 040 synchronous wheel D-shaped hole should be aligned with the 134 synchronous wheel shaft D-shaped flat position.



8. Install the rear wheel

8.1 Install the shaft sleeve, crankshaft synchronous wheel and synchronous belt.

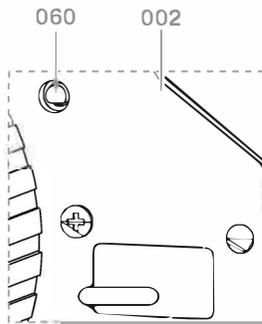


III: Failure analysis and elimination

1. Mechanical failure analysis and elimination

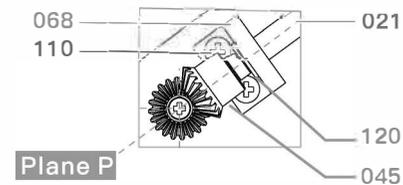
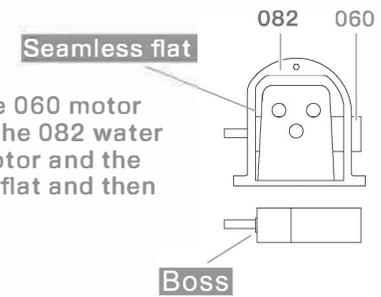
After the assembly is completed, turn on the switch if the movement is abnormal; first check whether the relevant moving parts are coated with lubricating oil as shown in the image, and then check the assembly sequence one by one according to the instructions; if the problem cannot be found, please follow the steps below to find the problem and solve it.

- 1): Whether the component installation direction is correct.
- 2): Whether the screws are tightened or loose.
- 3): Check whether similar parts are reversed.



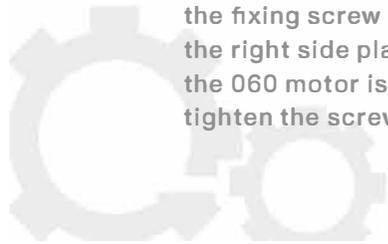
4): If there is abnormal movement, check whether the central shaft of the 060 motor rubs against the hole on the right side plate of 002. If it rubs, loosen the fixing screw on the right side plate of 002, move the right side plate slightly so that the central axis of the 060 motor is at the center of the 002 hole and then tighten the screw.

5): During installation, the boss of the 060 motor needs to be inserted into the hole of the 082 water tank, and the inner side of the 060 motor and the 082 water tank should be seamlessly flat and then screwed.



6): If the steering wheel is inflexible or unable to rotate, after folding down the steering gear assembly according to page 6.11 on P40, and then the bevel gear meshes for debugging: After the 110 screw is tightened, loosen half a turn in the reverse direction; first, turn the 044 steering wheel by hand. If the rotation is flexible, tighten the 110 screw and install the 120 circlip; if it is not flexible, adjust the 068 steering shaft seat to ensure that the 045 gear is normally engaged. As shown in the image, ensure that the center lines of the two bevel gears are in the same plane P.

7): If it is found that the angle of the vehicle turning left and turning right is unbalanced during operation. Then adjust according to page P45 to ensure that the steering gear assembly is installed when the center line of the front axle is perpendicular to the plane P of the car body.



Product parts list

Serial Number	Product Image	Product Name	Quantity
001		Left side panel	1
002		Right side panel	1
003		Left side panel of rear bucket	1
004		Right side of rear bucket	1
005		PCB board	1
006		Body guardrail	1
007		Front axle	1
008		Ventilation block	1

Serial Number	Product Image	Product Name	Quantity
009		Ventilation swing arm	2
010		Speed control swing arm	1
011		Swing arm link seat	1
012		Eccentric link	3
013		Clutch lever	1
014		Flameout nandle	1
015		Eccentric wheel	3
016		Speed control lever	1



Serial Number	Product Image	Product Name	Quantity
033		Foot pedal	1
034		63 tooth synchronous belt	1
035		Engine rear cover	2
036		USB Mini charging cable	1
037		Gear-5	1
038		Gear-3	1
039		Synchronous wheel-1	1
040		Synchronous wheel-2	3

Serial Number	Product Image	Product Name	Quantity
041		Gear-4	1
042		front panel	1
043		Boiler door	1
044		Steering wheel	1
045		Umbrella tooth	4
046		Gear-1	1
047		Gear-2	1
048		Piston	1



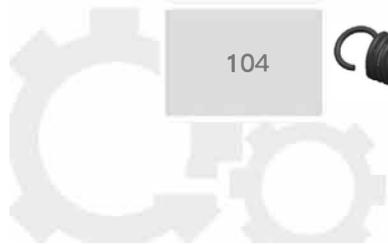
Serial Number	Product Image	Product Name	Quantity
065		Battery	2
066		Lower connecting block	1
067		big gear wheel	1
068		Steering shaft seat	1
069		Start motor gear	1
070		rear wheel	2
071		Front smoke pipe	1
072		Large smoke pipe	1

Serial Number	Product Image	Product Name	Quantity
073		front wheel	2
074		Operation panel	1
075		Tie rod support	1
076		boiler	1
077		Rear bucket	1
078		Piston sleeve	1
079		chimney	1
080		3m / 42 tooth synchronous belt	1



Serial Number	Product Image	Product Name	Quantity
097		Speed regulating seat	1
098		Back door handle	1
099		Bearing pedestal	1
100		Front wheel compression spring	1
101		Door bolt spring	1
102		Steering gear	1
103		Set screw	1
104		Speed control spring	1

Serial Number	Product Image	Product Name	Quantity
105		Sleeve	1
106		Eccentric wheel sleeve	2
107		Sleeve 1	1
108		Swing rod pin	3
109		Tie rod pin	1
110		Screw cm2.5 * 8	12
111		M2 nut	8
112		M3 nut	2



Serial Number	Product Image	Product Name	Quantity
129		Screw cm2 * 8	7
130		Screw cm2 * 14	1
131		Cup head m1.6 * 3	4
132		Synchronous axle	1
133		Gear shaft	1
134		Direction shaft seat	1
135		Flat key	1
136		M2.5 spring washer	7

Serial Number	Product Image	Product Name	Quantity
137		CM2.5*16	2
138		0.5 thick m3 gasket	1
139		Hexagon double way stud	2
140		Screw cm2.5 * 12 shim	2
141		Gasket	6
142		Eccentric wheel gasket	3
143		Bevel gear shaft	1
144		Ø3 bearing	2

