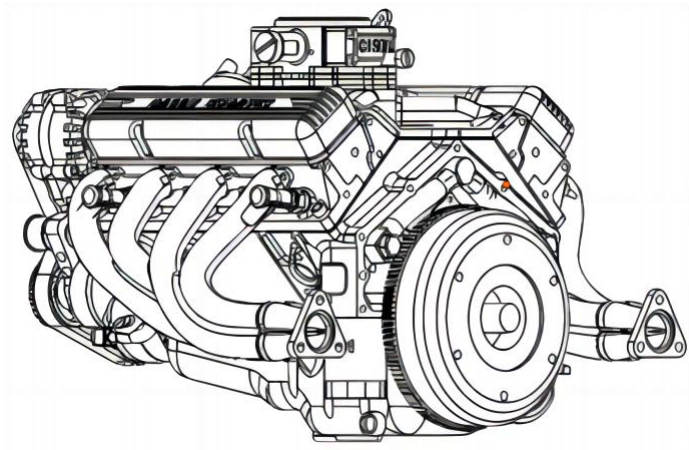


CISON

V8-OHV engine model operating manual



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About your engine

Remember, your engine is not a "toy", but an efficient internal combustion engine. Its output power may cause injury or other effects. Please do not alter or disassemble it. As a professional user, make sure that the engine runs safely and discreetly. If your CISON engine is acquired by someone else in the future, we kindly ask that these instructions be passed onto its new owner.

The recommendations below are for all production engines. Improper operation or neglect of safety can lead to engine damage or danger.

Warning: These incidents can involve serious (and in extreme cases, even fatal) injuries.

Model engine fuel is toxic. Don't let it come into contact with your eyes or mouth. Always store it in a clearly marked container and out of the reach of children.

Model engine fuel is also highly flammable. Please keep it away from open flames, excessive heat, spark sources, or anything else that could ignite it. Don't smoke or allow others to smoke in your vicinity.

Never operate your engine in an enclosed space. Model engines, like car engines, produce deadly carbon monoxide. Only run your engine in open places.

Model engines generate a lot of heat. Do not touch any part of the engine until it has cooled down. In particular, contact with mufflers, cylinder heads, or exhaust head pipes can cause severe burns.

Please note:

This engine is designed for scientific experiments, model demonstrations and vehicle models.
Designed for driving. Don't try to use it for any other purpose.

Follow the manufacturer's recommendations and use the appropriate screws and lock nuts to securely mount the engine in your model.

When it starts, there will be some noise. To alleviate this, you can buy a matching muffler/exhaust pipe for us, or keep the engine away from any inhibited place, as the noise of running may disturb other people.

The use of safety glasses is highly recommended. Please note that the electrical plug or battery cord should not come into contact with the rotating parts. Also, make sure that the connection of the throttle rod/rod arm is secure.

To ensure safety, when starting the engine, keep all spectators, especially children, at least 3 meters away from the engine.

To stop the engine, close the throttle completely. In an emergency, you can clamp the oil line in front of the carburetor and cut off the fuel supply. Do not attempt to remove the flywheel or activate the timing pulley.

Product Introduction

Basic parameters

Brand: CISON

Engine type: gasoline

internal combustion

engine valve train

type: OHV

Model: V8-

OHV Material:

Metal

Color: As shown

Overall size:

156*117*99mm Bore:

18.5mm

Stroke:

20.5mm Weight:

1.7kg

Product form: KIT

displacement: 44 cc

Cylinder: 8-

cylinder

Stroke: 4-

stroke

Speed: 1500-10000

rpm Power: \approx 5.5ps

Cooling mode:

water-cooled

starting mode:

electric start

Ignition method: CDI ignition for CISON V8 engine

(not included)

Spark plug type: 3/16-40 threaded

spark plug (not included).

Lubrication method:

independent lubrication

system fuel type: 92#

and above gasoline

Oil type: 4T oil, recommended 10W50

oil/28ML starting power supply: 6-14V,

recommended 12V lithium battery (not

included) **Applicable age:** 14+

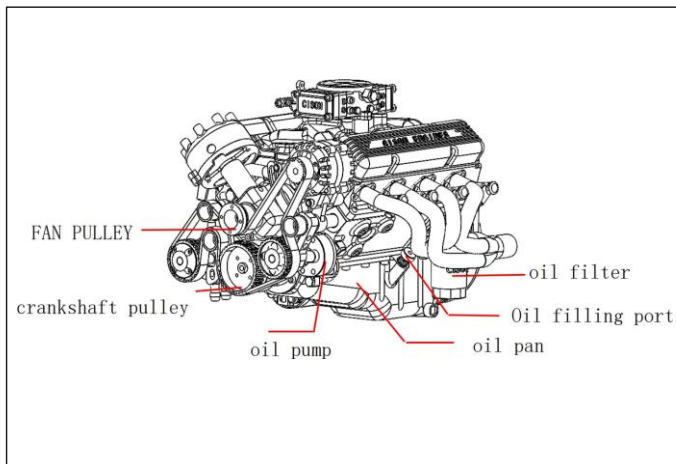
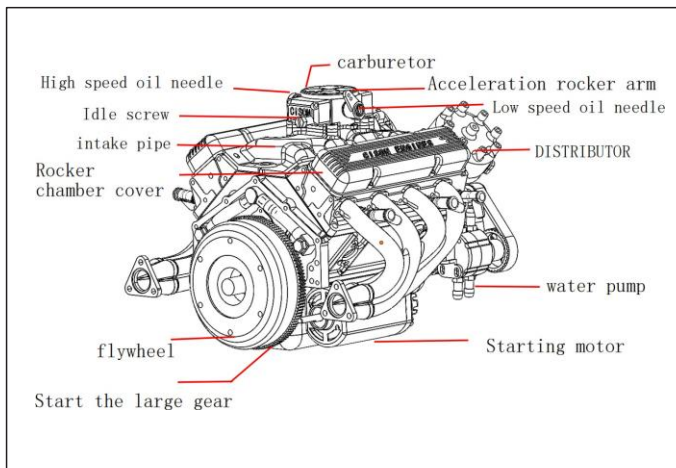
Packing:

Wooden box

package

contents:
Engine parts*1
set, manual*1
booklet,

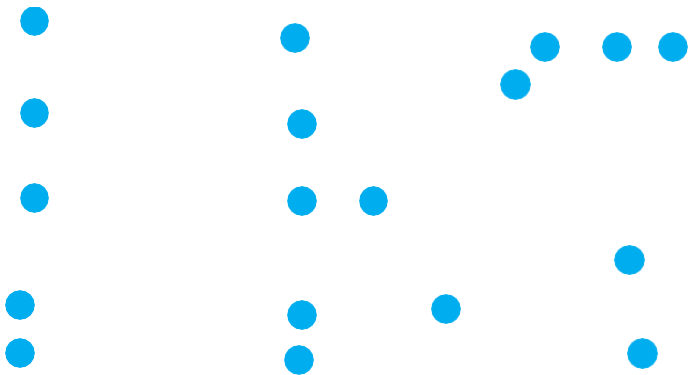
Structures and components



Parts packaging distribution map

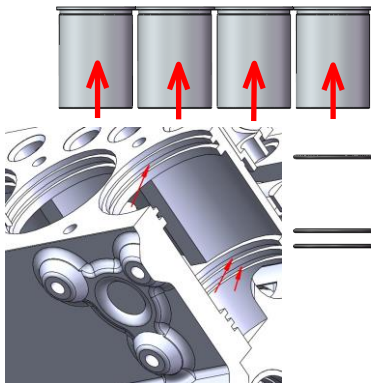
<p>1  8pcs M2X6</p> <p>2  8pcs M2.5X12</p>	<p>3  10pcs M3x20</p> <p>4  10pcs M3x12</p>	<p>5  26PCS M2.5X6x1</p> <p>F  1PCS M2.5X6x4</p>	<p>6  10PCS M2.5x8</p> <p>7  3PCS M2X3</p> <p>8  4PCS M2X5</p>	<p>10  1PCS M4X5</p> <p>11  2PCS M3x6</p> <p>12  1PCS M4x10</p> <p>13  1PCS 6x4x5</p> <p>14  1PCS 4x7x0.5</p>
<p>15  20pcs M2.5X5</p> <p>16  6pcs M2.5X6</p> <p>A  16PCS</p> <p>B  8PCS</p> <p>C  4PCS</p>	<p>17  6PCS M2.5X7</p> <p>18  2PCS M2.5X5</p> <p>19  1PCS 2.5X5x3.5</p> <p>20  1PCS M3x5</p>	<p>21  1pcs m4x18</p> <p>22  1pcs 4x6x0.1</p> <p>23  1pcs 4x7x2.7</p> <p>24  6pcs m2x4</p> <p>25  4x0.5x5</p>	<p>26  16PCS M2.5x8</p> <p>27  16PCS M2.5</p> <p>D  1PCS</p> <p>E  6PCS 0.1x0.6</p>	<p>28  6PCS 4x7xMM</p> <p>29  1PCS</p> <p>30  1PCS 3.1x2x2.5</p> <p>31  1PCS 3x0.24</p>

<p>32  1pcs</p> <p>33  1pcs</p> <p>34  1pcs OHV</p> <p>35  1pcs OHV</p> <p>36  1pcs</p>	<p>37  10pcs 7x1mm</p> <p>38  3pcs 5x1mm</p> <p>39  1pcs 9x0.5mm</p> <p>40  1pcs 8x1.6x3.5</p> <p>41  1pcs 7x1.4x4</p>	<p>42  24PCS 22x1mm</p>	<p>43  4PCS M4</p> <p>44  3PCS MB</p> <p>45  2PCS M4</p> <p>46  2PCS MB</p>	<p>47  2PCS 8x12x0.2</p> <p>48  1PCS M6</p> <p>49  2PCS 2x5mm</p> <p>50  2PCS 2x4mm</p> <p>51  1PCS 3x38.5mm</p>
<p>52  2pcs 6x1.2x4</p> <p>53  2pcs 8x1.4x4</p> <p>54  1PCS</p>	<p>55  6PCS</p>	<p>56  8pcs Tapered piston ring</p> <p>57  8pcs Rectangular piston ring</p>	<p>58  8pcs Oil scraper ring</p>	<p>59  16PCS 4MM</p> <p>60  1PCS MB325</p> <p>61  1PCS</p> <p>62  1PCS</p>



Assemble the steps

1. Please clean the inner sleeve of the cylinder again to prevent dust from scratching the piston

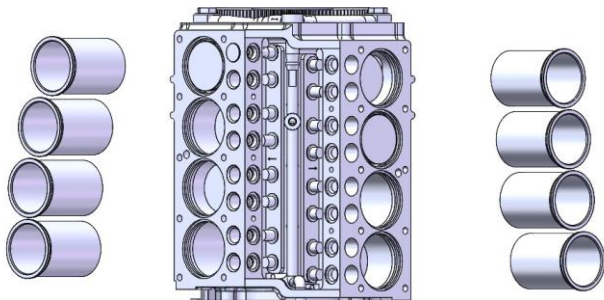


Take out the cylinder liner: you can take it out directly,

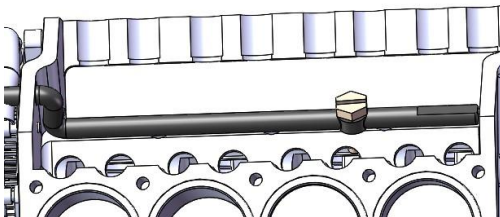
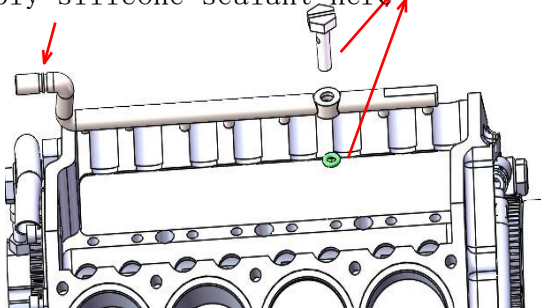
Use a non-metallic material to push it out with a gentle tap from the bottom.

Box Number : #42

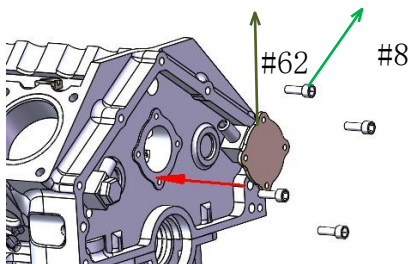
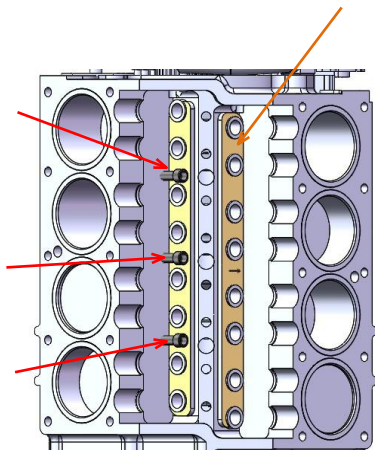
(3 sealing rings per cylinder)



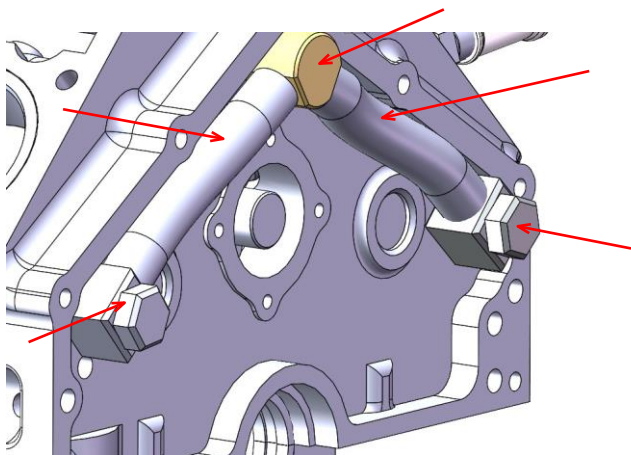
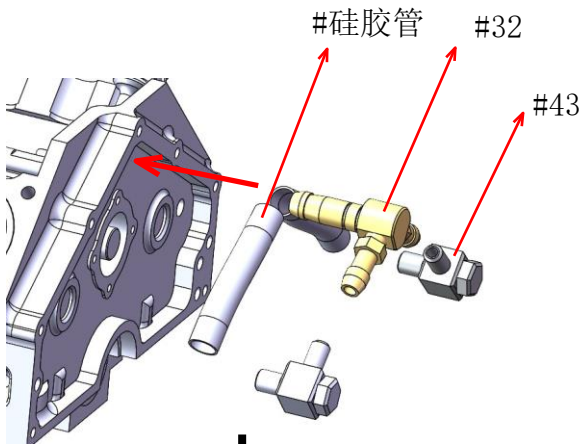
Apply silicone sealant here #36



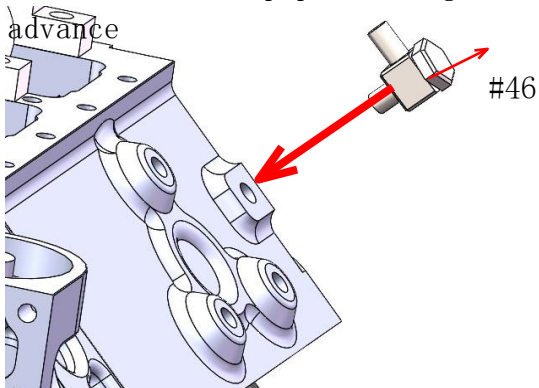
Install the tappet copper sleeve assembly as shown
Install 6 fixing screws
(No. #24)



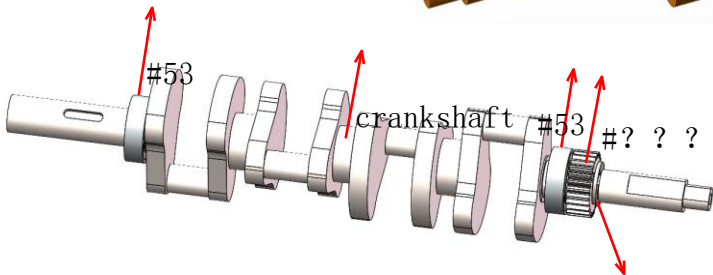
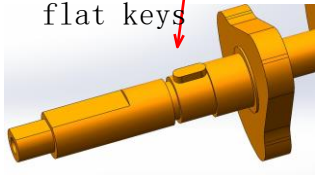
The cam seal cover is coated with silicone sealant and the screws are tightened



Install the oil pipe fittings in advance

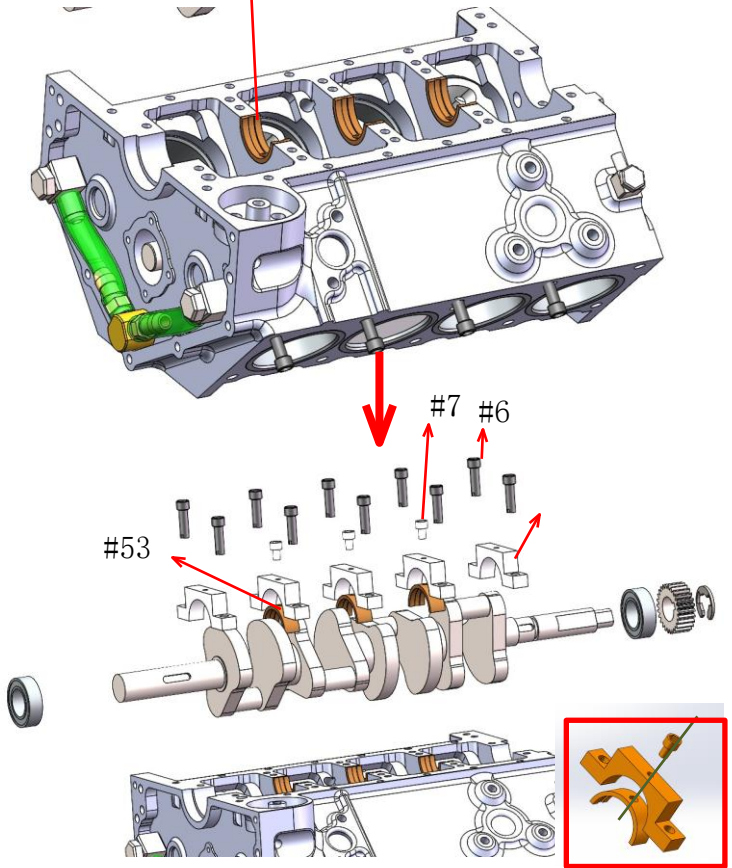


#50 Short length flat keys



Assemble the crankshaft according to the
picture sequence Circlip
(#48)

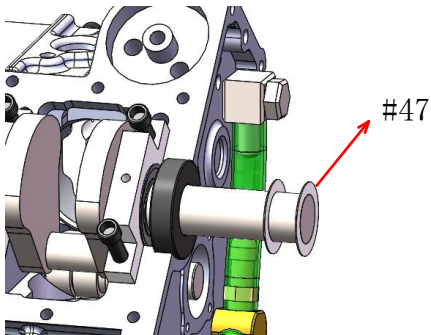
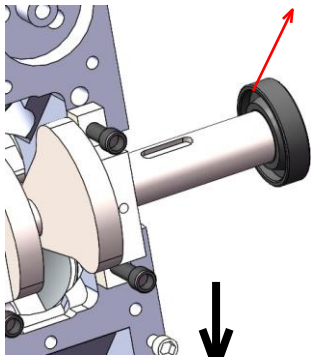
#53 - Put 3 bearings and apply oil to them



Assemble the crankshaft fitting assembly as shown in the picture, please note that the

#7 screw should be aligned with the bearing hole before it can be locked

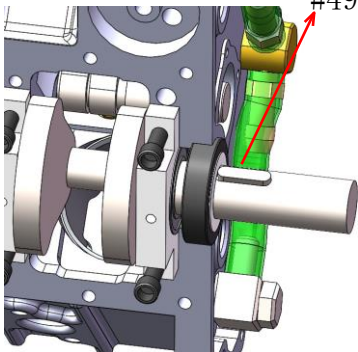
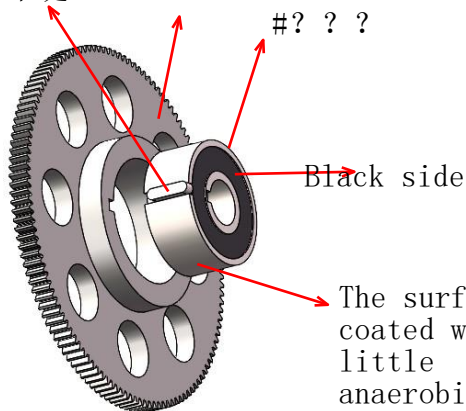
#40 (There are grooves facing the cylinder body.)
)



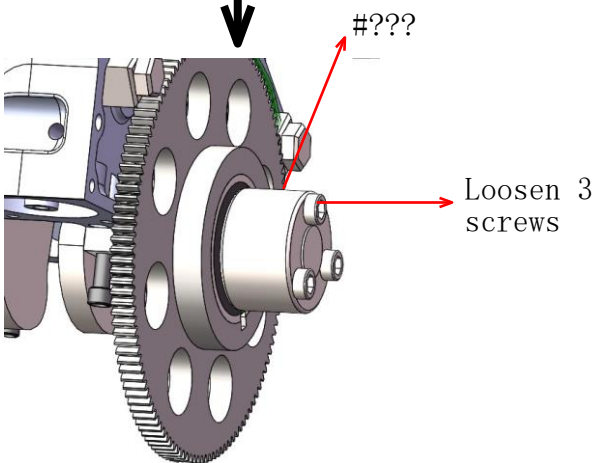
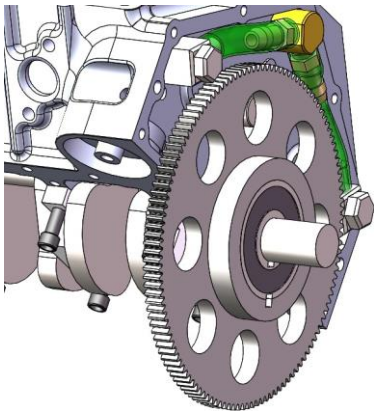
#49长度最长平键

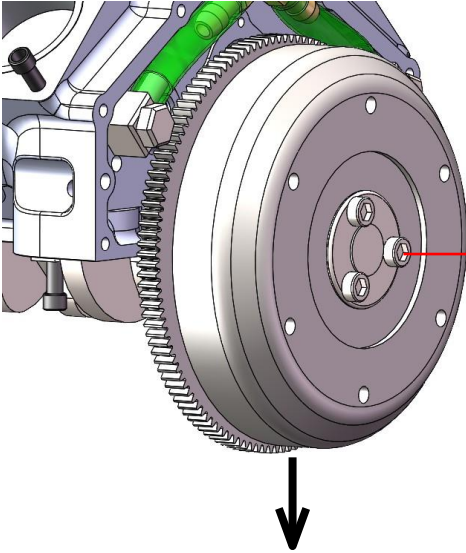
#? ? ? ?

#? ? ?









After the flywheel is put in, adjust the clearance, and the flywheel should be at least 0 distance from the starter gear .5mm. Then tighten the three screws slightly in turn and lock it again at the end

#??



It is recommended to apply a low-strength anaerobic adhesive

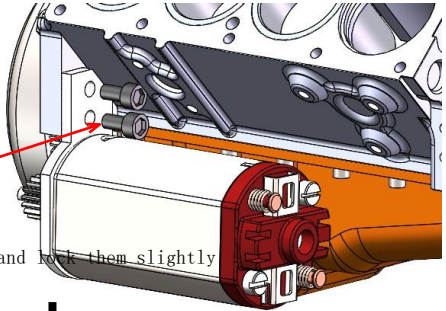
#? ? ?

#61

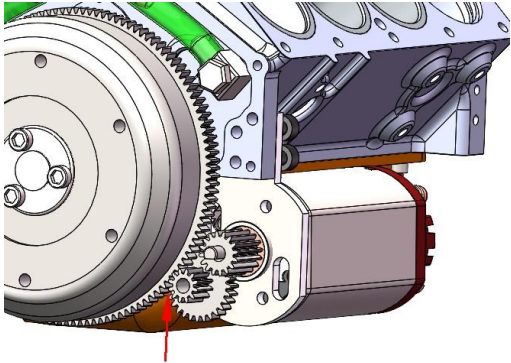
Note distinction #51

#61上有蓝色记号





#11
First, install the screws and lock them slightly

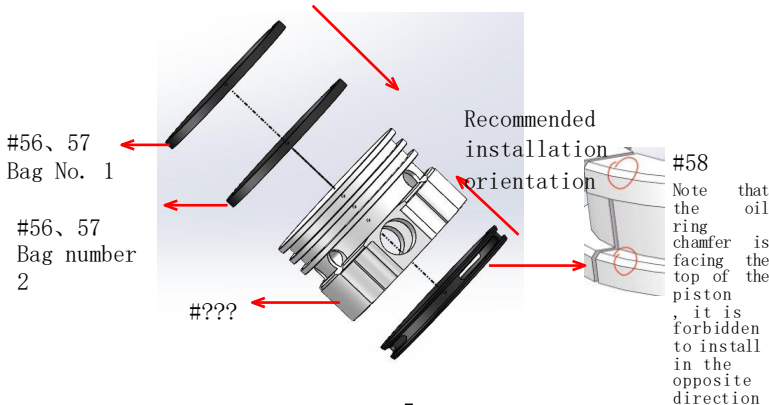


To adjust the gap, it is recommended to leave a piece of A4 paper blank and then lock the #11 screw

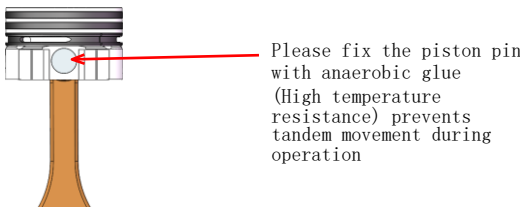
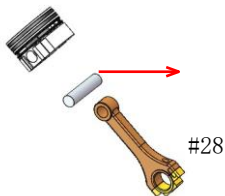
Rotate the flywheel clockwise and observe whether the gears run smoothly



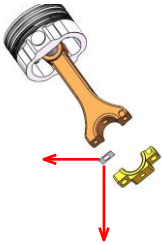
Prepare 8 piston assemblies



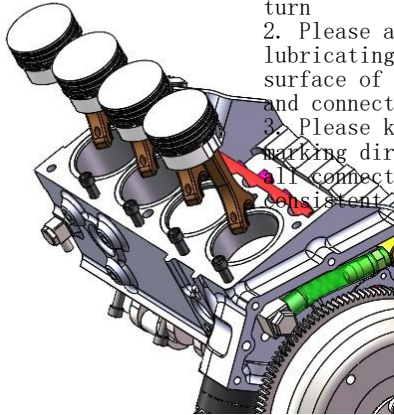
Note: The piston ring is made of cast iron, if it is slightly rusty, please soak it with WD40 to clean it



When installing the crankshaft, keep the 4 connecting rods of this groove consistent in any direction



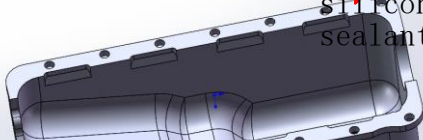
#??



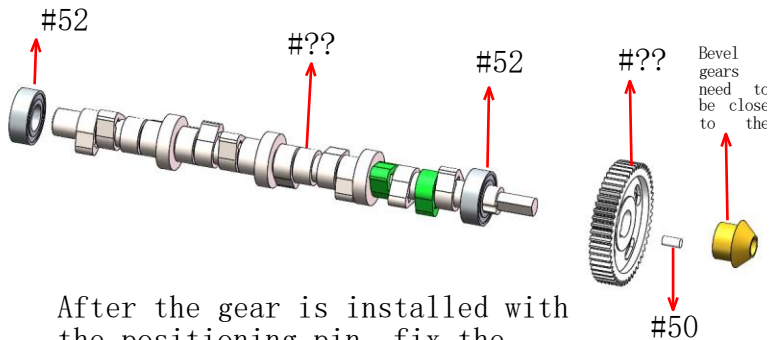
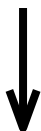
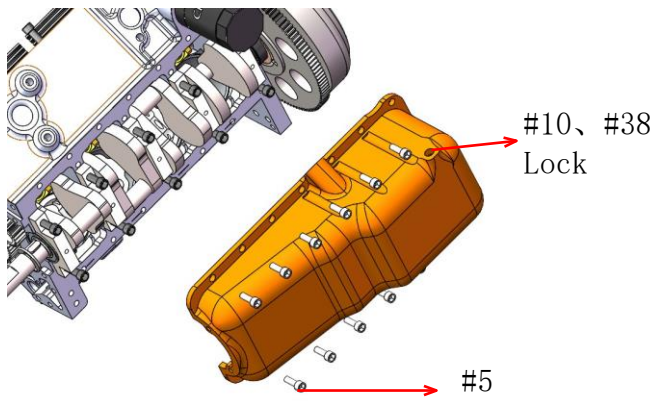
1. Install the piston into the cylinder in turn
2. Please apply lubricating oil to the surface of the piston and connecting rod
3. Please keep the marking direction on all connecting rods consistent

If the connecting rod is mounted on the crankshaft

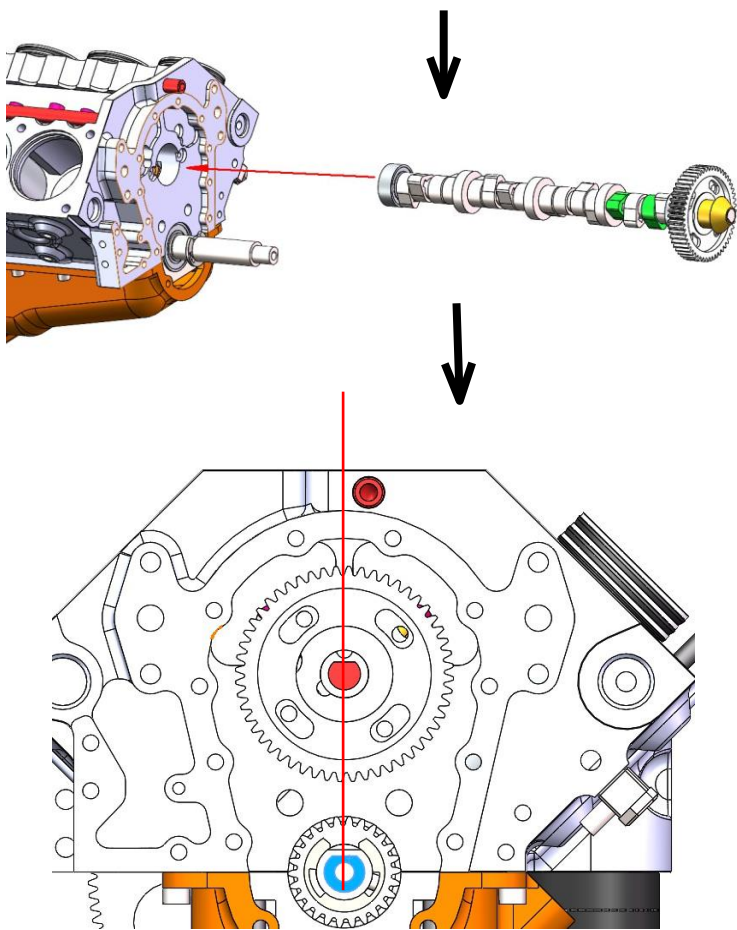
If the gap is too small, use an adjustment spacer



The entire contact surface is coated with silicone sealant

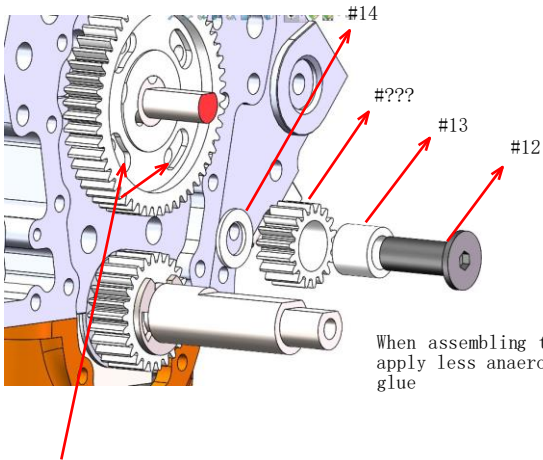


After the gear is installed with the positioning pin, fix the

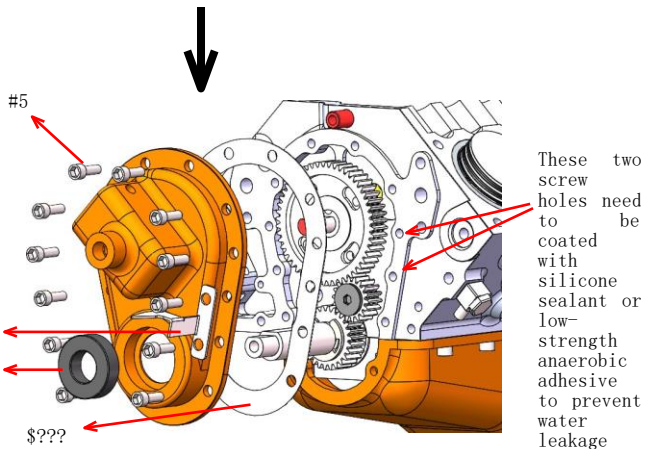


The crankshaft and cam
planes are perpendicular
upwards



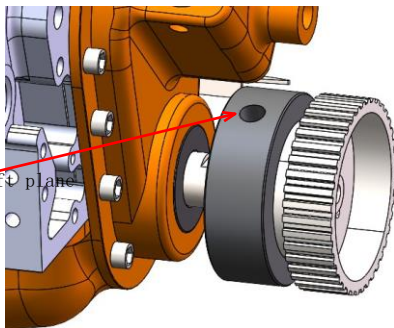
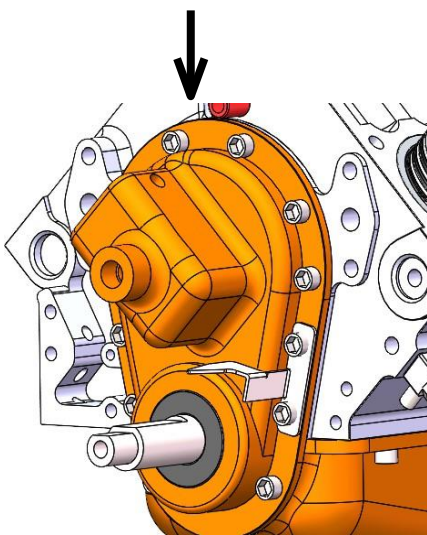


When assembling the gear, the large gear may be moved slightly, and the position can be fine-tuned by adjusting the screws on the gears, and the screws must be re-locked after adjustment to avoid loosening during operation



#54

#41

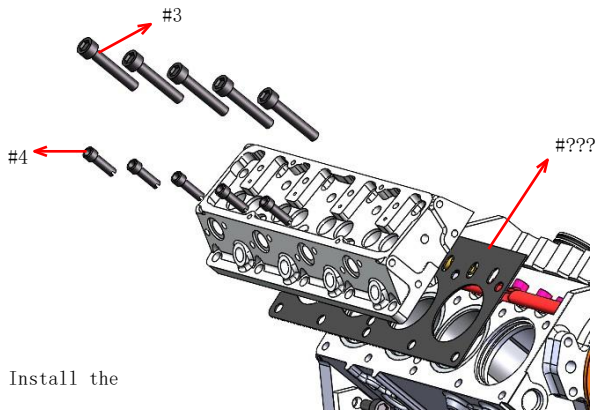


#? ? ?

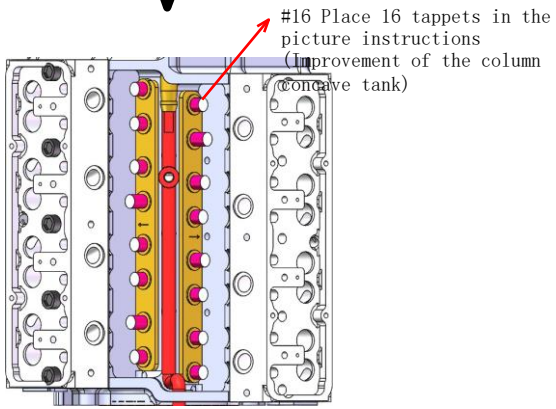
Align the crankshaft plane

Lock the screws

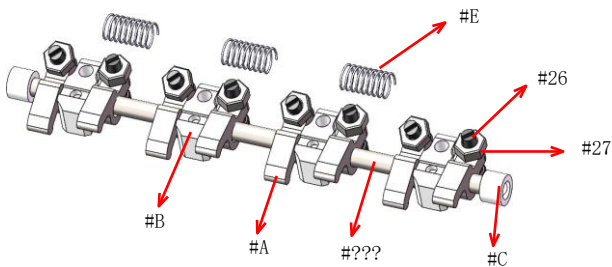
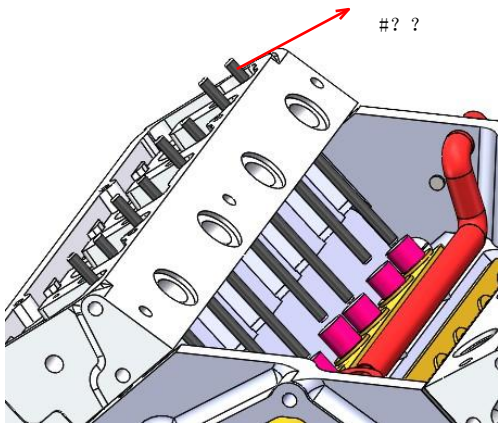




Install the



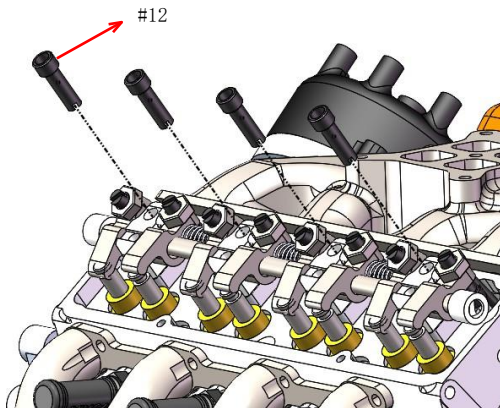
Place 16 pushrods into both
cylinder heads



Assemble two sets of rocker arm assemblies as shown



Locking two sets of rocker arm assemblies



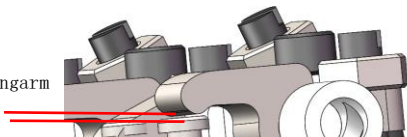
Important:

Adjust the valve clearance

1. Rotate the flywheel to observe one of the rocker arms ready to be adjusted
2. After the rocker arm moves downward, continue to rotate the flywheel until the current cylinder piston reaches the top dead center, and then continue to rotate about 30°
3. Please use a screwdriver to rotate the #26 screw and adjust the rocker arm clearance to C About 1mm (Note: There is still 0.1mm distance after locking the #27 nut)

What is rocker arm clearance?

The swingarm



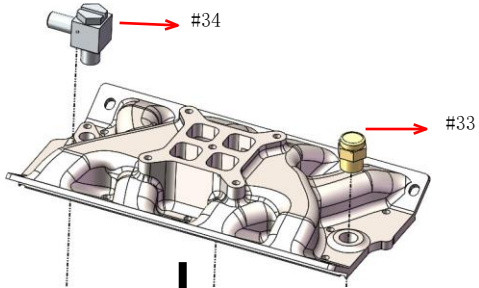
fully

bounces up

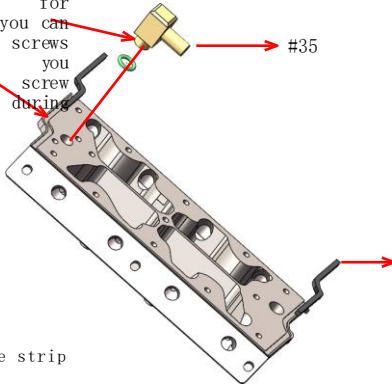
0.1mm



Next, we prepare the intake pipe assembly assembly



It is recommended to use sealant at the same time for threading, and you can disassemble the screws first when you encounter a screw block during installation

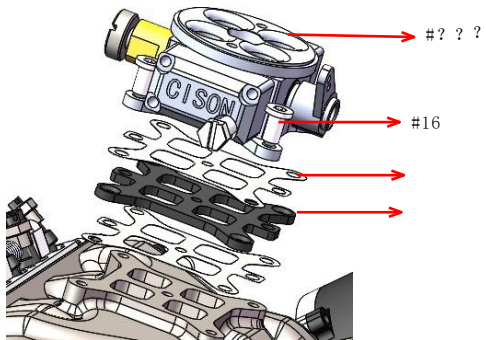
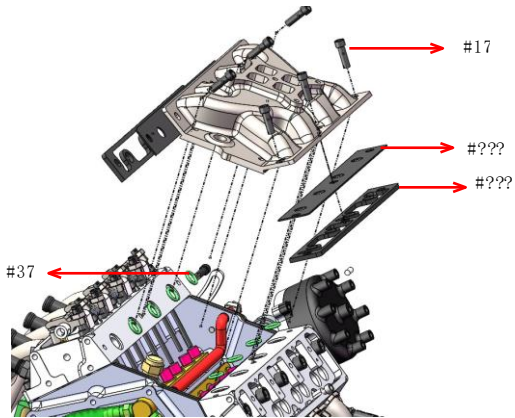


The strip can be installed in the groove in advance (left, center, right) add a little instant adhesive Let the adhesive strip stick

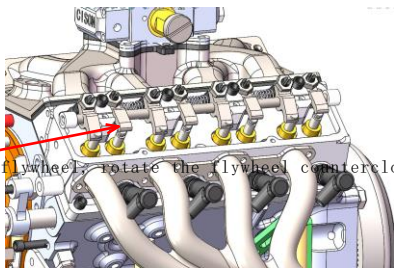
#???
Adhesiv
e
Strips



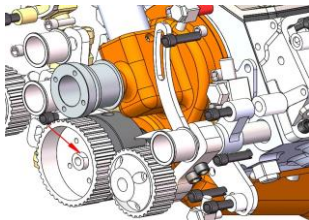
Install the air intake pipe



Install distributors



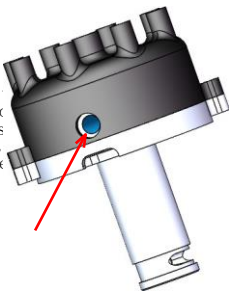
Looking from the side of the flywheel, rotate the flywheel counterclockwise. Observe the intake valve shown by the arrow, and when the valve moves downward, rotate the flywheel while observing the end plane of the crankshaft until the plane of the crankshaft is vertically upward (as shown)

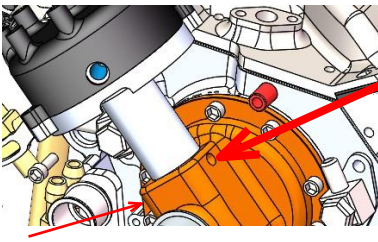


Keep the crankshaft plane straight upwards and prepare the ignition top dead center for the 1 cylinder at this moment



We made one of the screw holes in the distributor housing. A blue mark, please rotate the gears to keep the same as in the picture, at this time please do not let the gears turn, plug the distributor into the engine





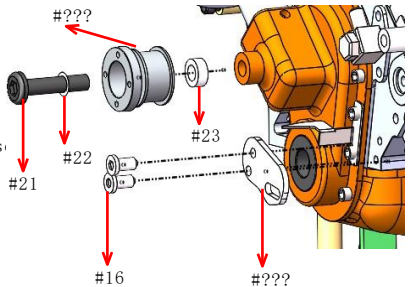
Slight locking with #25 screw + spring,
The ignition time also needs to be adjusted when it is officially launched

The side screws are slightly locked

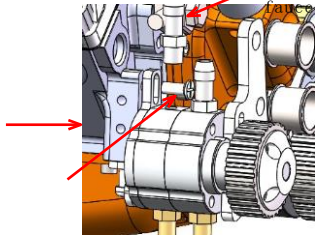


Note that after installation, you can use a small screwdriver to touch the blue hole slightly to observe whether the rotor will swing widely
If it may cause unstable operation, it is necessary to remove the black cover to adjust the gap and re-set the ignition time of the distributor

Install the fan idler
Install the oil pump base



Please remove the two silver spits first
After fixing the #F screw, lock the fan set tightly



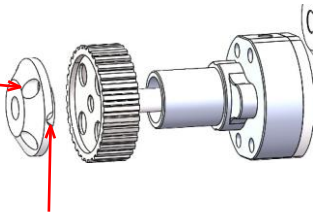


#F

2pcs-#18

Oil pump assembly

Please turn the ~~four~~ screws

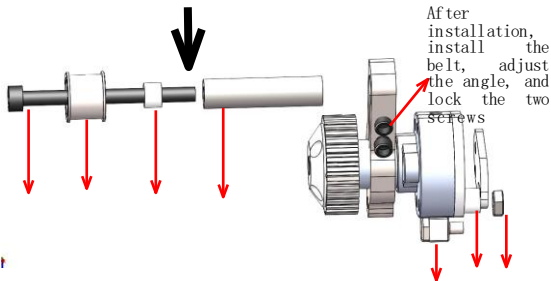
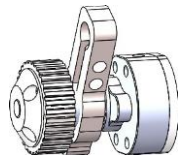


Please loosen the M3 fixing screws on both sides and take the pulley out

Be careful not to let the gear shaft follow out. If it is already out, realign the gear D hole. The gears are made of mixed carbon, and if they are not aligned with the D-hole, forcing them in may damage the gears.



Assemble the fixing bracket according to the reference drawing. Then lock the front and both sides of the synchronous wheel screws, please note: The position of the synchronous wheel propeller shaft should be restored to the position before disassembly.



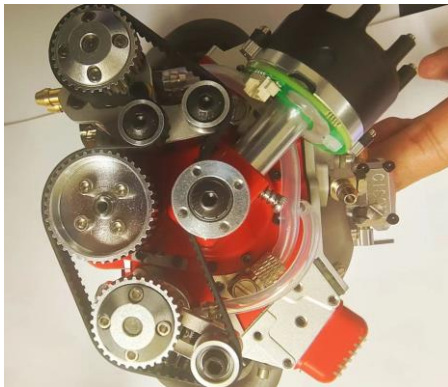
After installation, install the belt, adjust the angle, and lock the two screws.

#20 #29 #30 #31

#19 #27
#46

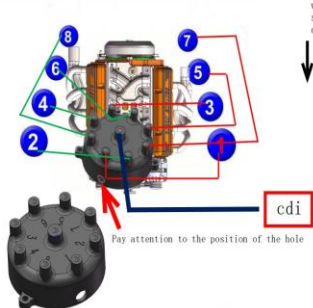
Belt mounting

Live shot



Link the high-voltage line

Take out a high-voltage cable about 1.2m long from the accessory bag and cut it according to the length of the link



After plugging in the high-voltage wires in order, insert the dedicated Hall connection wire, connect the CDI to the 12V power supply (JST plug), rotate the flywheel to observe whether the Hall LED light is on



Observe whether the compression point of cylinder 1 (intake valve open, crankshaft d-axis cross-section facing upwards) lights up the indicator light. If the indicator light is on, turn the crankshaft clockwise and backward by about 5° , then rotate and fine tune the distributor housing until the indicator light is on.

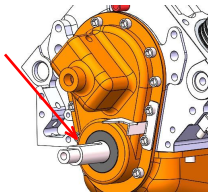
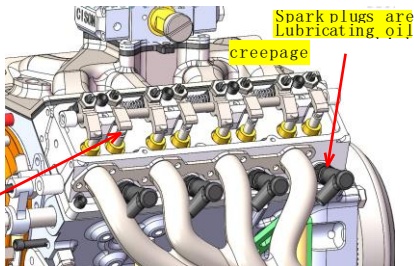
Attention: If the ignition time is incorrect, the indicator light will still light up (for example, it is currently ignition for cylinder 2). Therefore, it is recommended to use a transparent silicone hose to connect the high-pressure line of cylinder 1 and the spark plug of cylinder 1, and observe whether the spark plug of cylinder 1 produces high voltage electricity

Adjust the ignition of the distributor

Look past from the flywheel end and rotate the flywheel counterclockwise. When the arrow indicates the rocker arm moving downward, immediately look at the position of the rear pulley and continue to rotate the flywheel until the end face of the crankshaft is vertically upward.

At this time, a high-voltage spark should be generated in advance or later, and the observer distributor Hall LED light should be generated.

We should set the distributor crankshaft vertically upwards to ignite 0-10 in front.



Before the official start, please use the 1-cylinder high-pressure cap to use a transparent silicone tube link. It is convenient for us to observe whether the 1-cylinder high-voltage line produces sparks when it is triggered.

The distributor rotates in the direction of 1 cylinder, increases the advance angle, and the distributor rotates in the direction of 2 cylinders to reduce the advance angle.

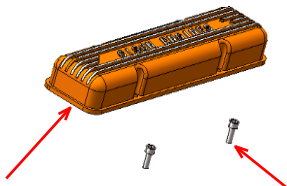
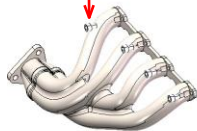
Increasing the advance angle increases top speed, but low speed may increase. The opposite is true.



The installation hole position space is small, so it is recommended that all screws be slowly stuffed into the exhaust pipe with a screwdriver, and then slowly rotated into the cylinder head in turn.

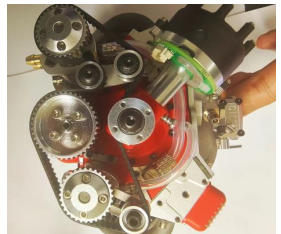
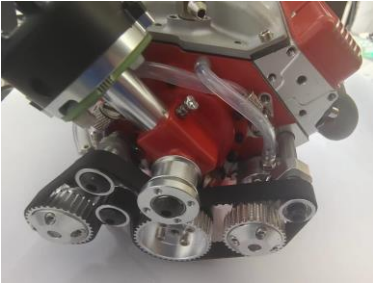


#15



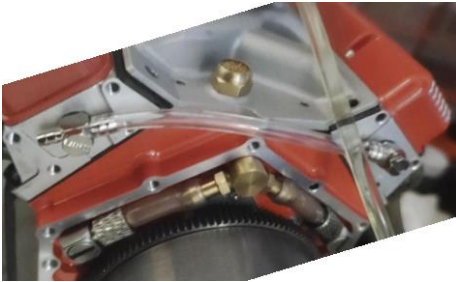
The bottom of the cylinder head is coated with silicone sealant to prevent oil leakage#1
注意: Install the cylinder head in different directions, refer to the instruction diagram

Reference to the actual picture



Expansion Retrofits

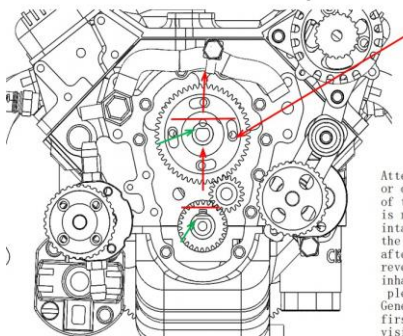
1. Add lubrication to the



Use the M3 tee nozzle to link the oil pump outlet here

CDI trigger time and magnet position

Camshaft position



If the position is incorrect, these four screws can be adjusted

Timing: The cross-section (D-axis) on the flywheel and crankshaft is perpendicular upwards

Attention: If the timing is advanced or delayed, it will affect the state of the other half of the cylinder. It is recommended not to install the intake pipe temporarily. Then install the spark plug, rotate the flywheel after installation, and observe the reverse injection when preparing to inhale on the other side. If spraying, please readjust the gear position. Generally, the exhaust valve of the first cylinder on the right that is visible from the gear is just closed

Subscribe to our YouTube: <https://www.youtube.com/c/CISONENGINE>

Preparation for engine start

Check the integrity of the product

To be on the safe side, it is strongly recommended not to disassemble the engine or attempt to start the mechanism. If there are any start-up issues, please contact your local dealer or CISON's technician for assistance. If you need to send the engine back to the factory for testing, CISON will provide high-quality after-sales service. However, if any problems arise due to unauthorized disassembly, you will be responsible for any corresponding responsibilities and costs.

1. Before starting, please check whether the CDI is powered on normally, turn on the switch, and then turn the flywheel to observe whether there is a high-voltage spark on the top of the spark plug. If there is no high-pressure spark. a) Please check if the power supply is on. b) Whether the voltage is normal. c) Whether the Hall sensor is damaged, etc.

2 Please open the carburetor throttle to the maximum, then block the air intake with your hand, turn the flywheel more than 3-5 times, let the fuel enter the cylinder in advance, and then start the engine.

The carburetor needle may be slightly different. If you can't turn it on

Please adjust the main oil needle to 2.0 turns, and rotate the auxiliary oil needle counterclockwise about 0.5 times after slightly tightening it.

Then, try to start, but it may not be accurate.

Ambient temperature, fuel tank height, etc., can all affect it. Please do it according to your experience.

Fuel:

The engine is designed to run on gasoline, the oil pan needs to be filled with 28ml of oil, and the high viscosity oil is recommended for V8 temperatures

Fuel Tank:

It is recommended to use the original small fuel

tank, which will make your model more beautiful and harmonious. Of course, we can also sell some other types of fuel tanks separately.

Fuel Lines:

Please use a Tygon type tubing and do not use silicone as it is not suitable for gasoline-based fuels. The included fuel line can be easily connected to the carburetor's inlet with a pair of small needle nose pliers.

Oil Needle:

The main oil needle rotates 2.0 turns, and the auxiliary oil needle rotates 0.5 times counterclockwise after being slightly tightened, and the oil needle has been preset before leaving the factory, but due to the fuel type/Humidity/altitude may require minor adjustments. Turn the oil needle clockwise to adjust the mixture, and turn the oil needle clockwise to make the fuel mixture thicker.

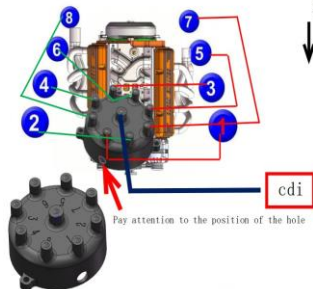
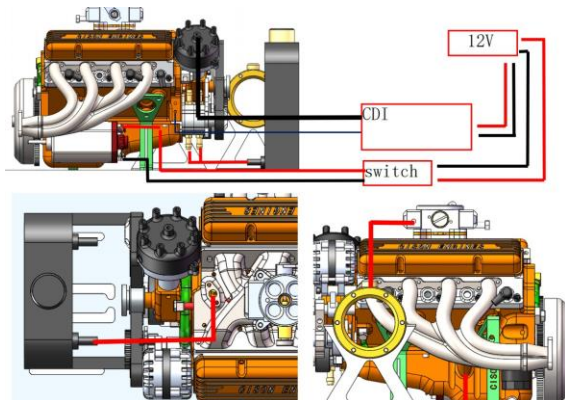
Idle speed: The idle speed can be adjusted by turning a small hex screw. Turning the screw clockwise increases idling, and turning the screw counterclockwise reduces idling by closing the throttle opening.

Prepare tools and materials

Have the following items ready:

- 1) 92/95# gasoline
- 2) 4T engine oil
- 3) 3mm small flat head slotted, Phillips screwdriver, 1.5mm/2.0mm/2.5mm hex screwdriver, 1.5, 2.0mm hexagonal ball screwdriver, 6mm spark plug sleeve, tweezers, rubber hammer
- 4) 12V high power supply (at least 15A)
- 5) Instant adhesive, silicone sealant, medium strength screw glue
- 6) Coolant (preferably with lubricating oil)

Schematic diagram of wiring



After plugging in the high-voltage wires in order, insert the dedicated Hall connection wire, connect the CDI to the 12V power supply (JST plug), rotate the flywheel to observe whether the Hall LED light is on



Observe whether the compression point of cylinder 1 (intake valve open, crankshaft d-axis cross-section facing upwards) lights up the indicator light. If the indicator light is on, turn the crankshaft clockwise and backward by about 5°, then rotate and fine tune the distributor housing until the indicator light is on.

Attention: If the ignition time is incorrect, the indicator light will still light up (for example, it is currently ignition for cylinder 2). Therefore, it is recommended to use a transparent silicone hose to connect the high-pressure line of cylinder 1 and the spark plug of cylinder 1, and observe whether the spark plug of cylinder 1 produces high voltage electricity

Engine Operating Instructions

Engine start/run/stop

(1) Check the engine wiring from the base, connect the tank tubes, and install the 12v battery.

(2) Fill the tank with gasoline (oil pan with 28ml of oil). Top up the needle, in units of 10°, gradually reducing the main oil needle until it is haired

After that, open the throttle lever completely, place your finger on the opening of the carburetor, and rotate the flywheel clockwise 3-5 times. Allow the fuel to enter the cylinder completely, making sure that there is no air in the oil circuit.

(3) Turn on the power switch, press the start switch, then open the carburetor damper to about 2mm, and block the air intake with your hand when you start it for the first time
mouth for 2-3 seconds to facilitate the fuel to enter the cylinder. If you can't start it all the time, please refer to the paper manual to teach

We recommend keeping the engine rpm low for the first few runs to allow the engine to be properly lubricated and to shorten the break-in period. Engine surfaces and exhaust pipe components do generate heat, so avoid direct hand contact with the cylinders and exhaust pipes while running.

Commissioning of the engine

Oil-rich:

When the engine has a lot of fuel, black smoke or slow acceleration, it means that the engine oil is too much, please turn the main oil clockwise

The motor exhaust sound is soft and powerful.

Oil:

If the sound of the engine is too sharp, like the sound of dry friction between metals, the temperature rises rapidly, and the engine stops immediately after acceleration, indicating that the engine oil is insufficient, please rotate the main oil needle counterclockwise, in units of 10°, gradually reduce the main oil needle, until the engine exhaust sound is soft and powerful

Carburetor does not get oil:

It may be that the needle valve is completely closed or clogged

Carburetor Injection:

The valve timing is incorrect, the valve is leaking, and the valve clearance is too small (0.1mm correct).

With compression but not starting: The CDI igniter is damaged, the sensor is damaged, and the power supply fails.

Idle speed is too high:

The carburetor is not properly adjusted, the left and right cylinders are unbalanced, the cylinder pressure is insufficient, and the valve timing is incorrect.

Sudden start-up, no compression:

It is likely that the valve structure is misaligned or that the valve has a foreign object.

Engine overheating:

Make sure there are heat dissipation measures, if the thinner gaskets have been replaced to improve the compression ratio, and if lubricating oil has been added to the fuel.

How to achieve ultra-low idle speed:

Replace the oversized flywheel and reduce the compression ratio.

Precautions:

- (1) If the engine cannot be started under the condition that the ignition device and cylinder compression are normal, you need to adjust the carburetor oil needle or CDI ignition time or camshaft timing.
- (2) After slightly tightening the main oil needle on the carburetor, release it for 2 turns, and start the flywheel with the auxiliary oil needle 0.5 turns, so that the mixing ratio of gasoline and air is normal.
- (3) When the engine stops running, the power switch should be turned off.
- (4) Do not start the engine when water is ingress. Remove the spark plug, turn off the oil needle, press the start button, and drain the excess fuel. (Cover the plug hole with a wool cloth so that the fuel does not splash on you). If the start is forced without removing excess fuel, it can cause irreversible damage to the starting system, as well as strain and deformation of the connecting rod and crankshaft.
- (5) If there is a discrepancy between the three-dimensional picture in the manual and the actual product, the actual product shall prevail.
- (6) Please keep the instruction manual in a safe place so that you can refer to it at any time. If you need to transfer the engine model to someone else, please transfer it with the instructions.

Care & Maintenance

Maintenance method:

This is a high-precision machine that needs to be cleaned regularly. Engine components are subject to wear and corrosion due to the environment and fuels during use. You can do basic cleaning and maintenance to keep it in good condition.

In order to keep the carburetor in good condition, it is important to wash it carefully and remove dirt and grease from the air intake.

If you're using an air filter, make sure it's clean and free of clogs

If the air filter has been in use for more than an hour, it should be replaced in time to ensure normal operation. When removing contaminated air filter elements, care should be taken to avoid allowing contaminants to enter the carburetor.

Spark plugs are considered consumable and must be treated as such. Running the spark plug for a long time does not guarantee the normal operation of the engine, but you can use it with caution to extend its life and maintain engine performance.

Use appropriate tools when

disassembling the engine. Use an

appropriate amount of 92# gasoline.

When making adjustments, do not tilt the engine too much and do not connect the battery.

If the spark plug is burned out or no longer provides optimal performance, it should be replaced. For example

1. Ceramic cracking and leakage

2. The electrode is burned
3. Soaked with a large amount of engine oil.
4. It has not been able to start.

At the end of each operation, empty the tank fuel tank, energize the spark plugs, and try to restart the engine to burn the fuel that may be left in the fuel tank. Repeat this process until the fuel in the engine is removed.

Anti-corrosion oil is injected and the engine is briefly started to distribute the oil to the working parts. Do not inject this oil into the nozzle of the lubricator as this may cause the O-ring of the carburetor to deteriorate

- Solid lubricant is added to the camshaft and valve lifter to ensure that the camshaft has adequate lubrication for each operation.

Note!

These maintenance procedures should be carried out on a regular basis. After a while, there may be a risk of corrosion or difficulty starting the engine. If you need help, please contact us.

Storage:

When the engine is not in use, it should be stored properly.

Short-term storage (1-3 months):

First, clean the surface of the engine, blow dry it with compressed air, and apply the anti-rust oil evenly to the metal surface with a brush. meantime to take anti-rust measures on the surface of the drive wheels. Next, disconnect the power and switch wires, clean the connector terminals, and then loosen the drive belt to seal all exposed ducts, intake and exhaust pipes, and air filters with moisture-proof paper. Cover the engine with a plastic/acrylic lid and place it in a dry room.

Long-term storage (more than 3 months):

Before storing, start the engine to idle, run for 1 to 1.5 minutes and then stop, drain the engine's lubricating oil/oil while it is hot, but not drain the coolant. A "surface cleaning" is then carried out, but unlike short-term storage, a (oil-free, do not use) sticker needs to be hung on the engine to remind others not to disturb it

Use after unpacking:

First, remove the engine cover, connect the pipes, pump out the fuel system, and prepare for the next wake-up. Then connect the power supply, tighten the drive belt, add clean oil, check the oil and coolant, and turn the flywheel/crankshaft 3-5 times with a tool to make sure there is no flameout. Then you can wake up the engine

- If it has been stored for more than 2 years, you will need to replace the coolant and clean the cooling system.

Replacement parts

After a long period of use, friction between engine components will lead to wear and excessive clearance. Replacing the relevant parts will help improve the performance of the engine.

During use, if there is inflexible starting, power drop, unstable idle speed or other problems during use, please share your experience and report the poor performance of the engine to your local dealer or CISON. We are committed to providing you with outstanding service.

For parts replacement, we provide professional equipment and a skilled team. Do not attempt to disassemble the engine without professional tools, as this may cause uncontrollable damage.

Troubleshooting

Diagnostic troubleshooting and steps:

The starter and engine cannot be turned. First of all, check the storage of the battery and the contact of the wire connection. If the battery is normal, check the starter circuit, fuse, and ignition.

Turn the throttle to the center position and start the engine. If the engine can start, the fault is a faulty idle control valve and its wiring or a leak in the intake pipe. If the throttle is in the open position and still won't start, move on to the next step

Perform a visual inspection. Check the air intake pipe for air leaks

- Check that the pipes and their connections are in good condition. Check the crankcase ventilation device for air leakage.

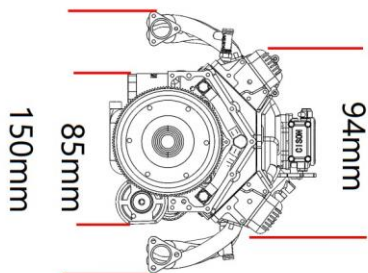
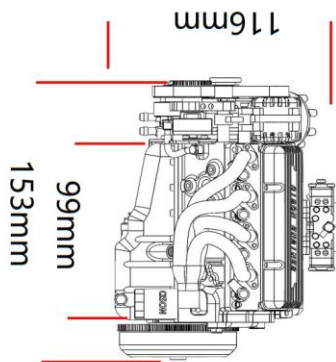
Check for high-voltage sparks. If the high-voltage spark is not normal, check the high-voltage wire, ignition sensor, distributor, and electronic igniter.

Safety Information

Prohibited Actions

1. This machine is only suitable for adults over 18 years of age to operate.
2. This machine is fueled by pure gasoline, which is flammable and dangerous. Please follow the instructions strictly.
3. Do not use methanol for any fuel. Fuel must be clean and kept away from fire. If there are any impurities in the fuel, it will clog the carburetor oil passage and reduce the performance of the engine.
4. Do not place your hands or other objects near the engine pulleys and flywheels while the machine is running, as this may cause personal injury and increase the risk of damage to the machine.
5. If the machine does not work properly, do not force the machine to start. Inspect the machine immediately or contact after-sales service, otherwise, the risk of damage to the machine will also increase.
6. There will be a certain amount of noise and exhaust emissions when the machine is running, please try to operate it in an open place outside.
- 7.7. Please maintain the machine regularly, change the oil, clean the oil passage, and check the worn parts. This will greatly increase its operational life.

Engine view



BOM list

After-sales service

Thank you for choosing our model. We will provide you with satisfactory after-sales technical support. It is recommended that you carefully read the assembly instructions, operating instructions, and related precautions before making the model, as it will help you a lot. If you need technical support, you can contact our store staff.

1. After-sales service standards

If there is a difference between the picture shooting and the actual product due to photographic technology, computer color difference, etc., the actual product color shall prevail.

Due to the continuous improvement and improvement of product performance by manufacturers, product parameters and structure may be changed without prior notice, please refer to the actual product.

Before the kit is shipped, the company will have a special person to do a detailed inspection and test each item to ensure that the function is normal. When the freight company delivers, please be sure to check in detail in person, confirm the integrity of the goods, and find that the goods are damaged during the shipping process, etc., you should let the logistics company issue relevant certificates or refuse to accept them on the spot, and send the relevant photos to our company's customer service mailbox within 24 hours, otherwise the relevant losses and responsibilities shall be borne by the buyer. If you have other problems with the model, you should also contact our company within 7 days.

Please read the composition instructions and product operation manual carefully and follow the manufacturer's user guide before using the model product, and damage caused by not using and maintaining it in accordance with the requirements of the product instruction manual (such as: water ingress, fire, disassembly, modification, etc.). The Company shall not be liable for loss or injury caused by improper use of the product, nor shall it be liable for damage to the product caused by intentional or unintentional sabotage, crash or impact.

Model products are definitely fragile products, and even more vulnerable to damage for beginners (perhaps in a short period of time due to unfamiliarity with the parts), we make sure that every part is tested by us and shipped. Therefore, the company does not give any return and compensation service for the damage of these accessories in a short period of time, unless the customer is not used and is absolutely brand new, provide the corresponding evidence after the staff appraisal, so that the full set can be sent back to the manufacturer for repair, and the freight sent back is borne by us. The rest of the repairs will be processed, and the return shipping fee will be borne by the buyer.

If the customer submits that the product fails to meet the product description function within three days after receiving the goods, the company will provide free repair or replacement of parts after the government recognizes that the third-party organization has verified it (or the company recognizes it). Customers cannot ask for returns and exchanges because of personal differences in product performance (such as novices who can't operate), material manufacturing differences, and other differences.

When the product is damaged and needs to be repaired due to the quality of the company's products itself, the company can provide maintenance services, but the parts and labor costs need to be charged, and the transportation and mailing costs incurred due to the maintenance shall be borne by the customer.

Model products must be used under the circumstances or conditions permitted and prescribed by the local government, and the Company shall not be liable for any loss or damage caused by the improper use of the product or accessories.

Please refer to the product manual for some common sense and precautions for the use of model products. The final interpretation right belongs to the company.

2. User feedback and support

Dear buyers, we promise to provide you with quality and reliable service for the products you purchase and to provide you with any assistance you need. In the actual use of the product, if you encounter technical or use problems, we have a professional technical team to answer for you online free of charge, detailed information of the product, as well as access to a variety of parts and a full set of services, you can also consult and obtain from the merchant. Please contact the merchant who sold your product in a timely manner, and you can contact the merchant via the Internet or email.

CISON

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Proven and a Great Value!

