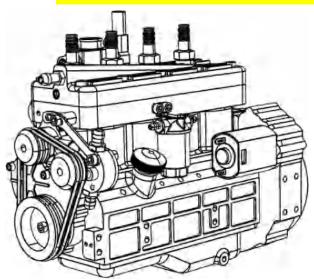
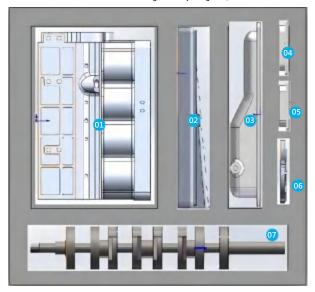
# **Operation manual**



## be careful:

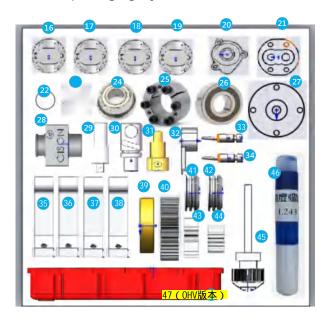
- 1. Some parts may have been pre installed and may not exist in the parts box.
- 2. Some gaskets and sealing rings may be used for backup and do not necessarily need to be installed.
- 3. Please install in strict accordance with the installation requirements
- 4. During installation, the rotating or sliding parts need to be lubricated in advance
- 5. As the logistics cannot transport liquids, the 271 and 243 anaerobic adhesives we gave away have been seized and cannot be put into the parts box. Please purchase them yourself and use them as required.
- There may be upgrade accessories, which we may provide for free or purchase for a fee (please pay attention to the online disk information for details)

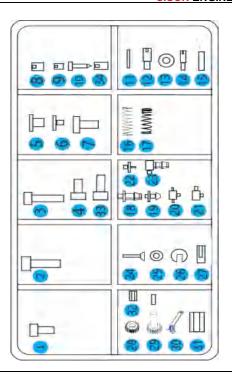
Part packaging distribution diagram (mixed diagram of flat head and OHV version, not all of which are actually displayed)



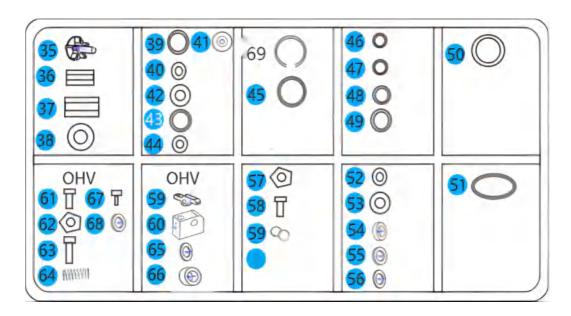


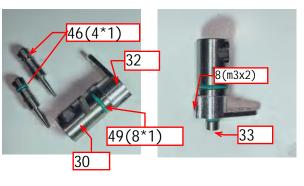
# Part packaging layout





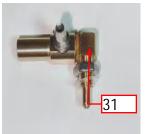
## Part packaging layout















Installation to avoid excessive force fracture

## Product assembly steps



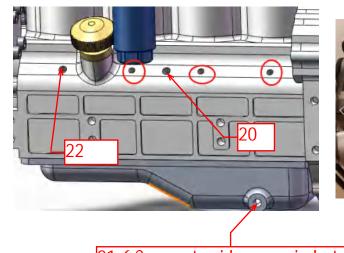




1. Please clean the cylinder again Inside the sleeve to prevent dust from scratching the piston 2. Install the cylinder liner back Note: the appearance should be moistened The oil can make it smoother, Be careful that the cylinder liner catches the sealing ring , causing damage to the sealing ring

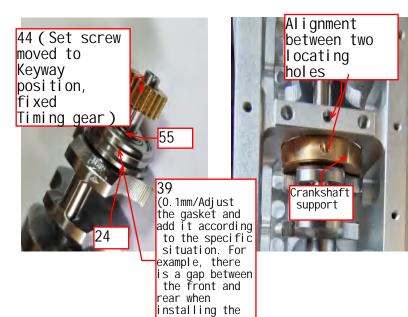
Use M2.5 screws in the red circle of part No. 9 (M2.5), Note that the screw is used to plug and adjust the oil volume to ensure that each oil outlet hole basically has the same oil volume. Test and regulate the flow before operation,

Note: the oil filter element is purchased additionally





21 (Connect oil pump inlet after installation)

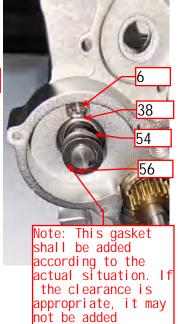


crankshafť

The two m3 on the side are forbidden to be installed 58 (Crankshaft fulcrum bearing set screw) Note: after installation, the crankshaft should rotate smoothly. If not please continue to check whether the screw completely blocks the copper sleeve, resulting in no cl earance

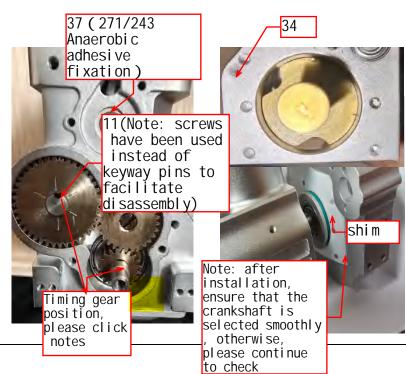








gasket first)

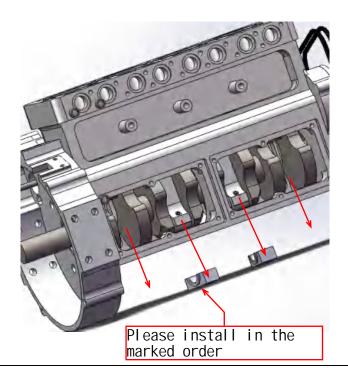


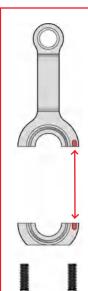
Scheme 2: the use of a cast iron ring and a high-temperature and wear-resistant 0-ring may lead to higher engine temperature and greater torque. It is not recommended to start the installation for the first time

Scheme 1 (recommended): two cast iron piston rings, and the ring mouth is staggered by 180 The piston pin bores on both sides are different in size. First place the piston pin slightly from the loose side, then the connecting rod, and then push in the piston pin. The piston pin is fixed with a small amount of 271/243 anaerobic adhesive. If the size is appropriate, anaerobic adhesive may not be applicable

15





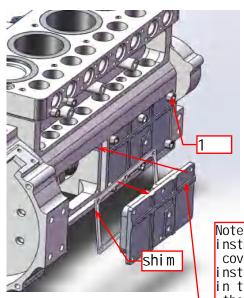


# 注意!

The original pairing shall be maintained during disassembly and shall not be confused . The concave point at the arrow shall also be kept correspondi ng during installation.

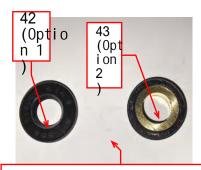
11(243, 271

anaerobi c Gl ue)



Note: the bearing is divided into positive and negative, and the model mark corresponds to the gear small boss

Note: when
installing the side
cover, it must be
installed as shown
in the figure, with
the small grid
upward, otherwise
the crankshaft will-



Recommendation: Option 1
Scheme 1: it is easy to install
and disassemble without glue.
Scheme 2: there is a copper sleeve
to position the starter gear, and
the structure is reasonable.
Disadvantages: inconvenient
disassembly and assembly



The starting motor screw shall be put in before installing 41 (screw No.: 1)

11(Pi n)

Note: please install the pinion before the big gear

41 (Before installation, please find the gasket with thickness of 0.2 in inner hole 3 in grid 51 and put it in

14(SeeNotes)

The tension
sleeve and
flywheel shall be
kept flat as far
as possible

Slowly tighten the three screws in turn. Note: it is forbidden to tighten one of the screws at a time, otherwise the flywheel may not be locked or the tensioning sleeve may be damaged

Note: rotate the flywheel clockwise after installation, which should be very smooth with the reduction gear. Otherwise, readjust the gear clearance.

Before installation, I'm sorry to tell you a problem.

During our sample test, the starting motor never failed. It may be that the sample has been run in.

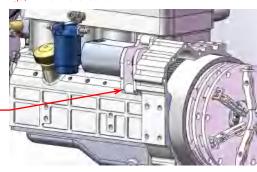
Now we have found that for the newly assembled engine, if you use two piston rings, the starting motor may not run or even burn out.

So we made a new patch. Add a deceleration to the starting motor. The original reduction ratio is 21 times, and the improved reduction ratio is about 33 times.

Note that this is a free patch provided by cison, but we can't guarantee whether the dealer will charge your freight.

If you don't need this patch, you can use a single piston ring during assembly, let it run for a period of time, and then change it to two piston rings, which is also OK.

If you don't receive it, you may be the first to transport it. You can consult the dealer.

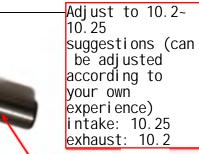






Please install the valve in sequence.
After installation, you can use a mobile phone flash to illuminate the air inlet to look for light in the dark. Check whether there is any foreign matter in the pipe brush that makes the valve not closed



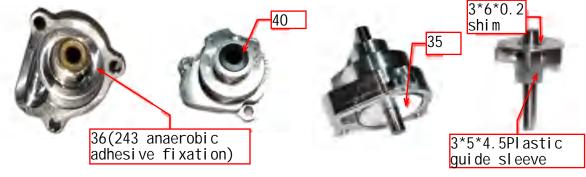








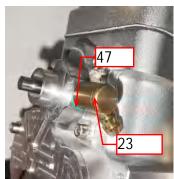






The pulley is fixed with high-strength 271 anaerobic adhesive. Fix the pulley note: the pulley groove should be flat with the crankshaft pulley

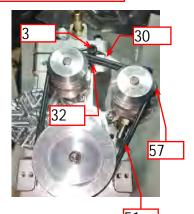




Note: water pump and oil pump pulley shall be adjusted before fixing with 271 anaerobic adhesive

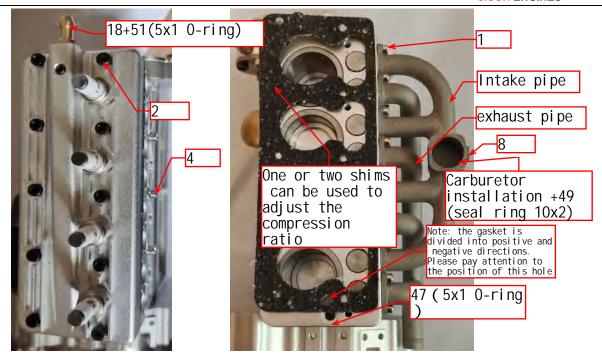








The sensor magnet mounting hole (the magnet is in the CDI package) and the mounting magnet must be flat

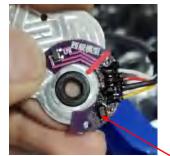


After you receive the CDI igniter, there is a very small magnet in the package.

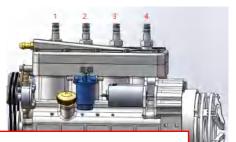
Please note that there are colors on one side of the magnet, and those with colors are installed outward, as shown in the figure



Just install a magnet in any mounting hole. It needs to be pressed in with a tool magnet. Or use a drill to enlarge the hole diameter, and then use glue to stick it
Note: the magnet shall not protrude from the plane, otherwise it may touch the hall sensor



Hall installation position, as shown in the figure. Remove the two screws of the timing gear baffle, and then align the hall PCB board with the mounting hole



Insert the high-voltage line according to the high-voltage line number on the CDI

Magnet position:

Rotate the flywheel. Place the first cylinder near the timing gear side on the compression stroke (i.e. top dead center position after the inlet valve is opened and closed)
Before energizing the CDI, check whether the CDI ground wire (high-voltage return line) is connected to the cylinder block, and install the high-voltage wire.

After the power is turned on, loosen the pulley, and then rotate the pulley magnet to the point where the arrow points to the hall, and observe whether there is high-voltage spark on the high-voltage line of the cylinder. Then rotate the pulley counterclockwise by 0-10 ° as the ignition advance angle.