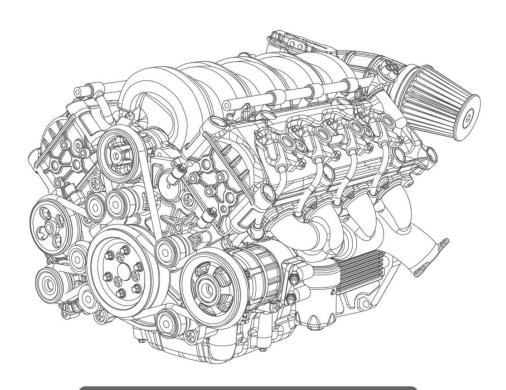
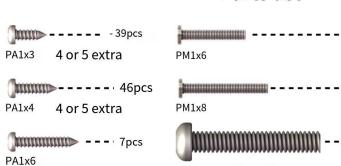
# Welcome to the MAD Engine simulation world



Please follow the instructions before installation

Follow the sequence of installation steps and installation precautions strictly

## Parts list





PA1x8

PA1.4x5

6pcs





Countersunk socket socket M2x14





bearing

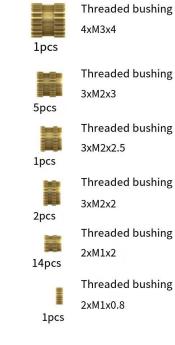
5x8x2

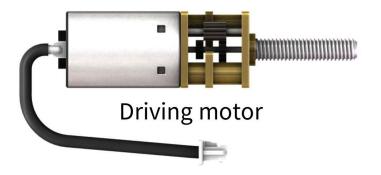
2pcs



bearing 2x5x1.5 6pcs

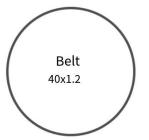








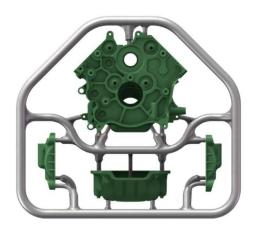








## Panel introduction (green is part entity)



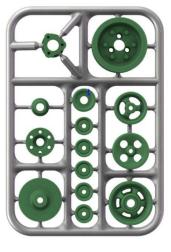
Part A (master cylinder block, oil pan, etc.)



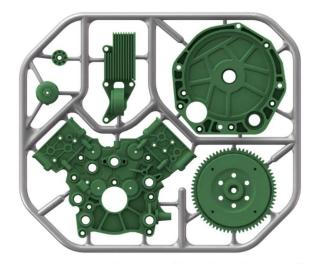
Part B (cylinder head, intake tank)



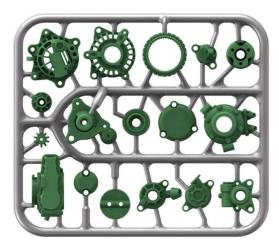
Part C (exhaust pipe, intake manifold, etc.)



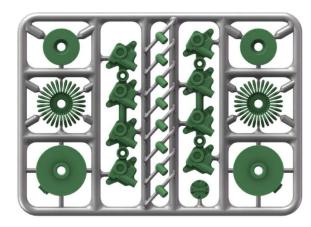
Part W (Drive wheel group)



Part D (cylinder front cover, flywheel panel, machine filter, etc.)

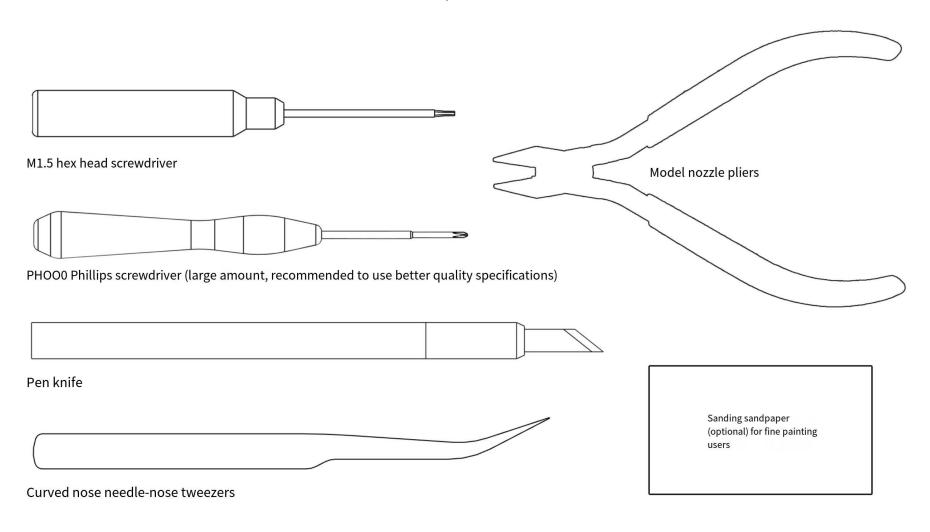


Part E (generator, water pump, compressor, etc.)



Part E (ignition coil, air filter, etc.)

# Prepare tools before installation



## Installation precautions

Because the relevant parts of this product are relatively fine, pay special attention to the strength when installing, so as not to damage (refer to the following figure)





Overtighten the screw, resulting in deformation and damage to the component



The screws in the parts distinguish PA (coarse teeth tapping) and PM(fine teeth), please carefully identify the small specifications in the parts (screws, bearings, threaded bushings, etc.) Please take care to avoid losing the installation of several color system tips, please pay careful attention

Orange pay special attention to the installation strength

purple.

Screw glue to use

Please leave the screw glue to set initially for about 10 minutes after installation

blue.

Do not assemble on a workbench similar to a cutting mat

Hard cutting pads are easy to engine small parts

The bounce of the pad causes loss

It is recommended to use a soft solid color tablecloth for assembly

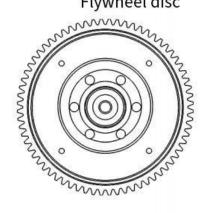
#### KM2x12

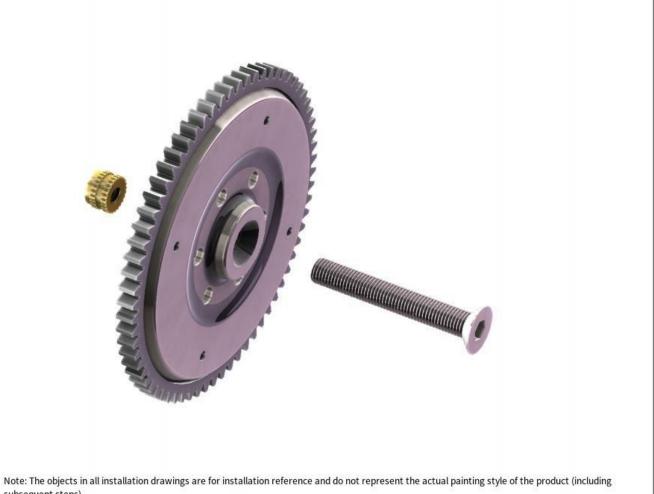


#### Shaft sleeve M2×2 thread



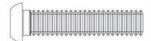
## Flywheel disc





subsequent steps)





Bearing 2x5x1.5



Threaded bushing 3xM2x3



Flywheel inner wheel





Flywheel inner axle sleeve embedded Schematic diagram of the section after the inner wheel of the flywheel is pre-installed

Installation Step 02

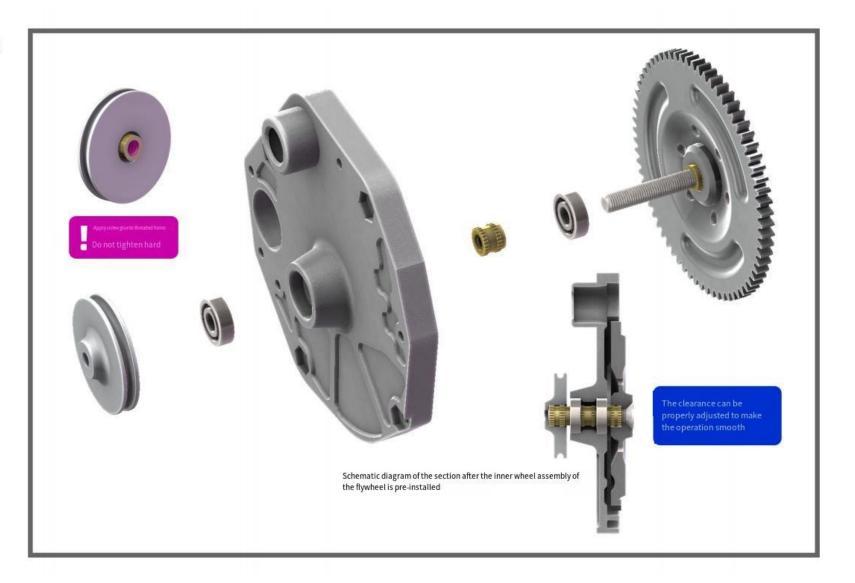
## Threaded bushing M2x2.5



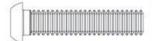
## Bearing 2x5x1.5



2pcs







Shaft sleeve M2×2 thread



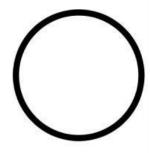
Bearing 2x5x1.5

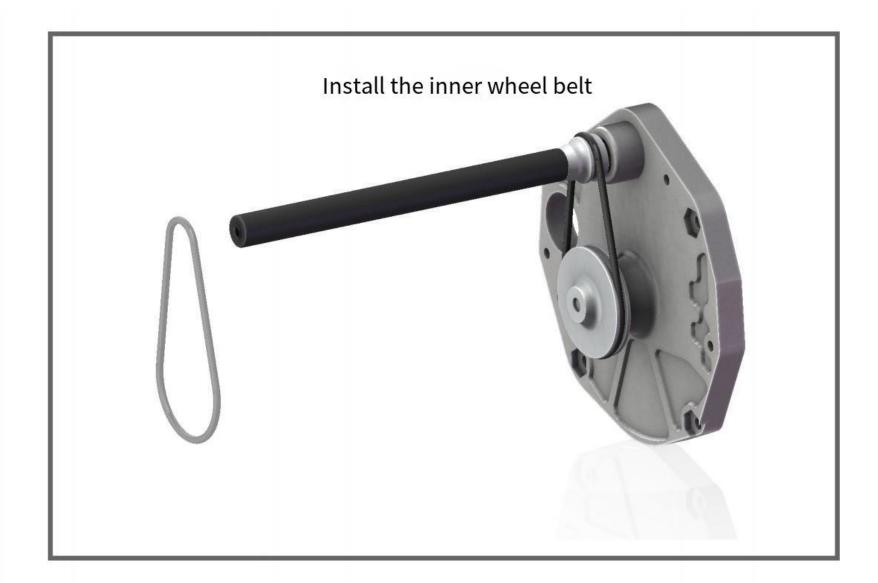


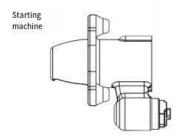
1pcs



Belt 13.6x0.8







## Starting engine ratchet



## Start the tail cover

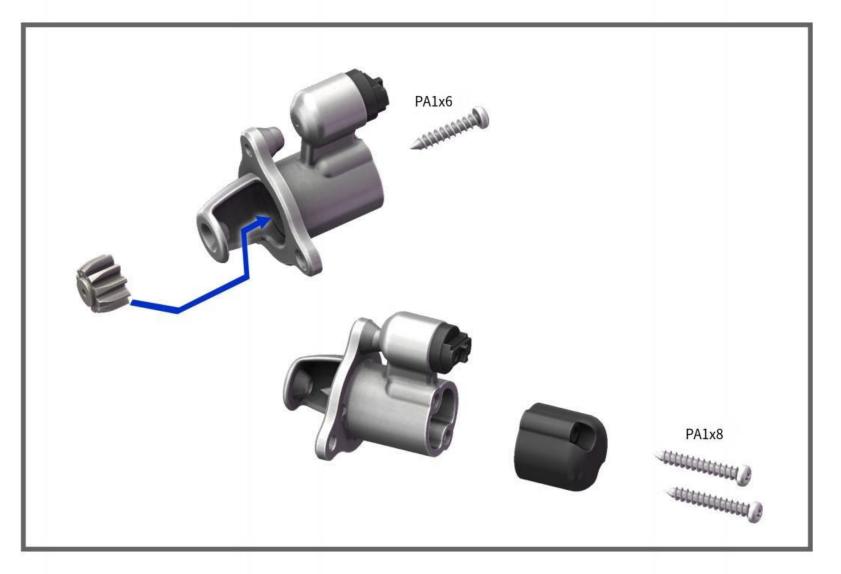




PA1x6

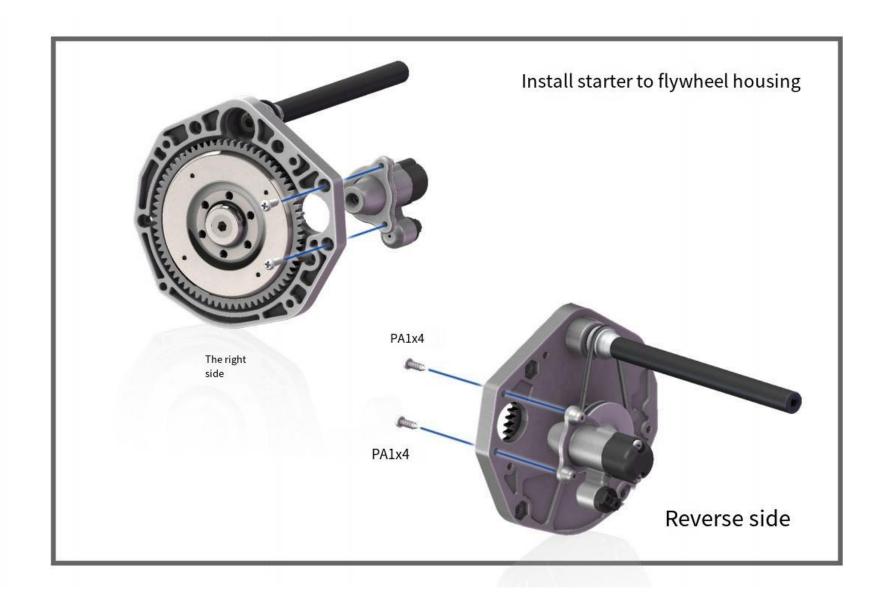
 $\bigcirc$ tttttttt $\triangleright$ 

PA1x8 2pcs



PA1x4 2pcs

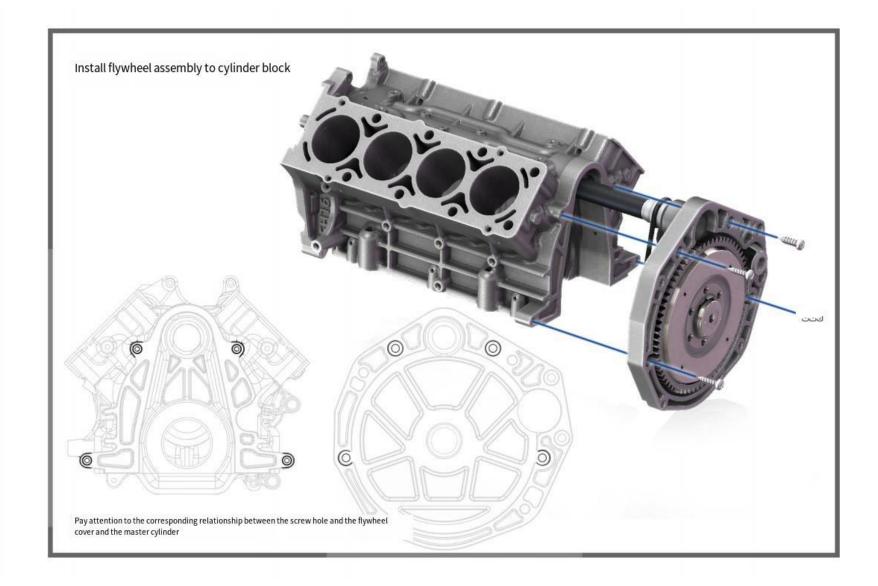




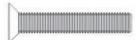
Installation Step 07

#### PA1x4 4pcs





KM2x12



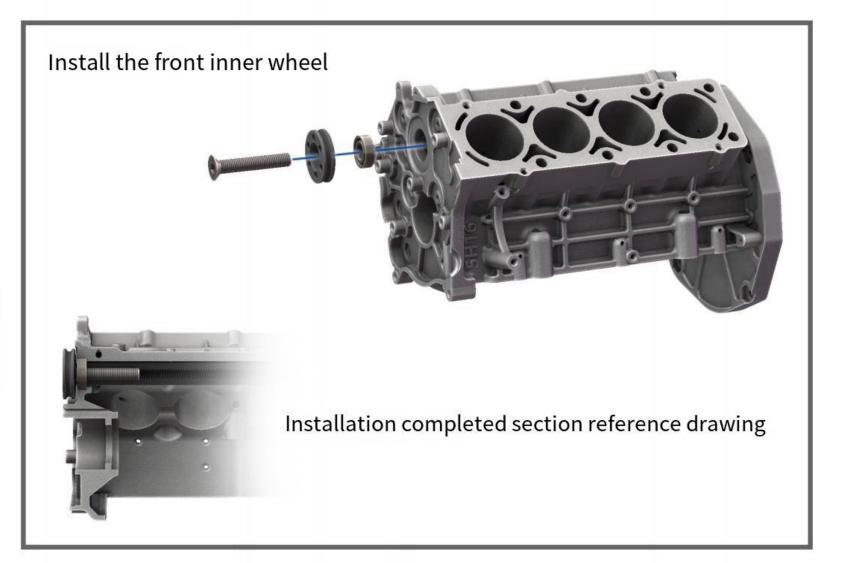
Bearing 2x5x1.5



Drive center wheel





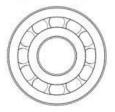


Installation Step 09

#### M3x12



### Bearing 3x8x4



#### M3x4 threaded sleeve





#### Crankshaft sleeve





# Crankshaft thread sleeve embedded







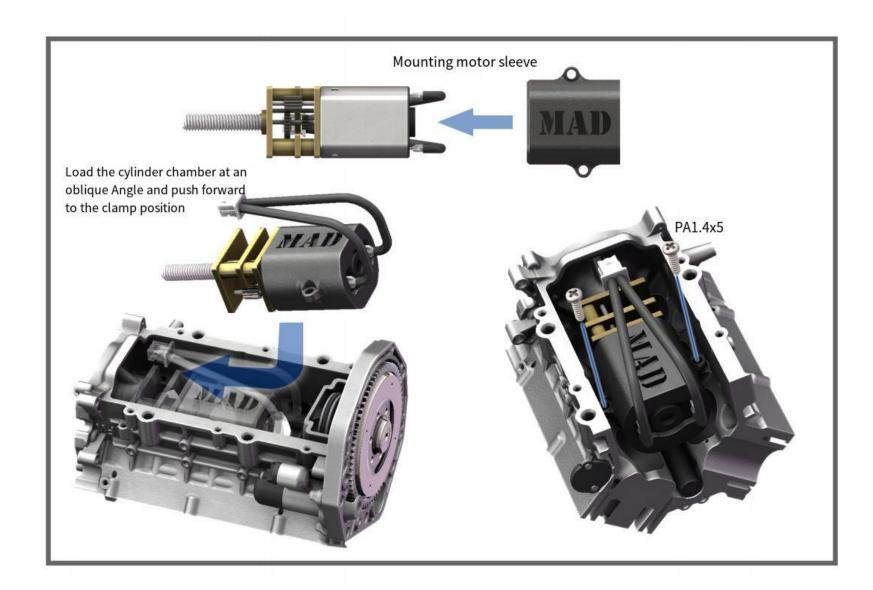


Inscrew and remove bearings when the embedment is complete

Installation Step 10

## PA1.4x5 2pcs

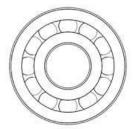




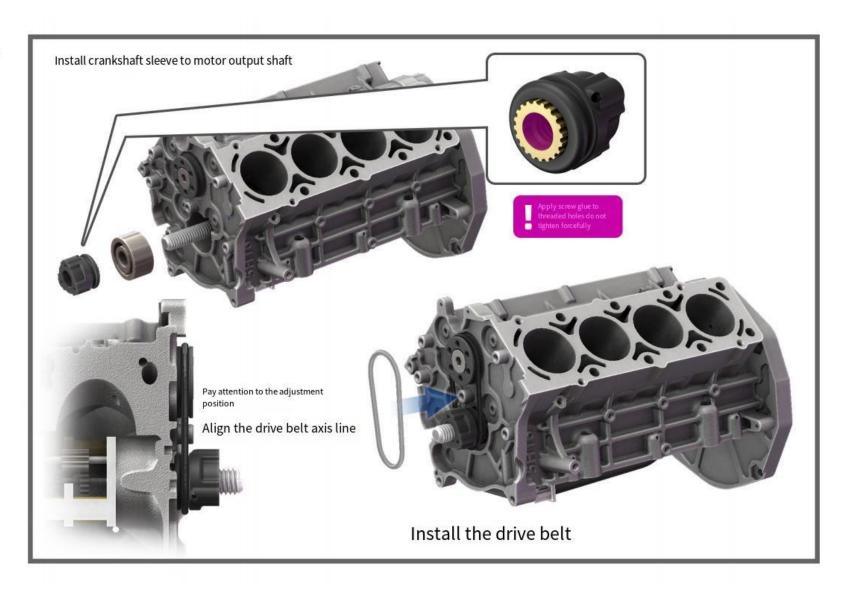
## Crankshaft sleeve assembly



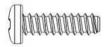
## Bearing 3x8x4

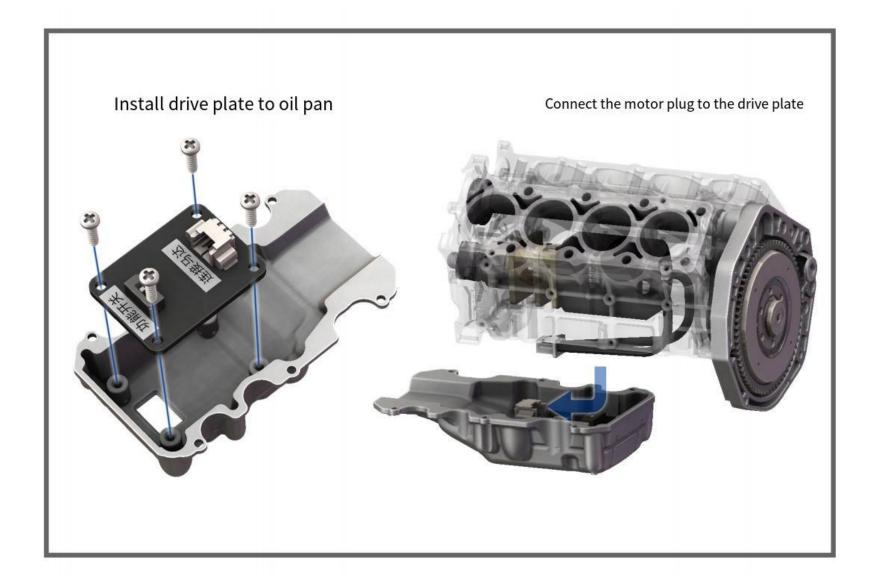


Belt 12.3x0.8

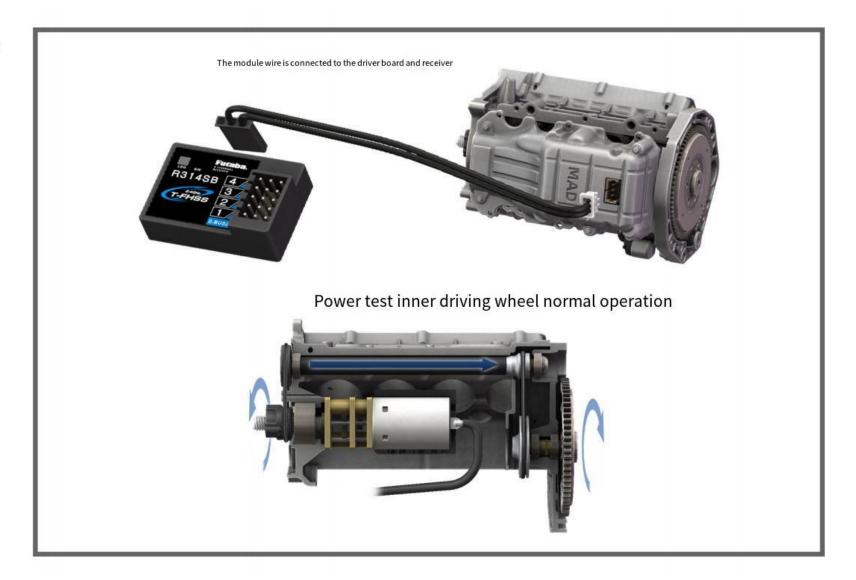


PA1.4x5 4pcs

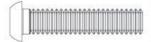




Please test the adjustment carefully







Bearing 2x5x1.5



Threaded bushing 3xM2x3



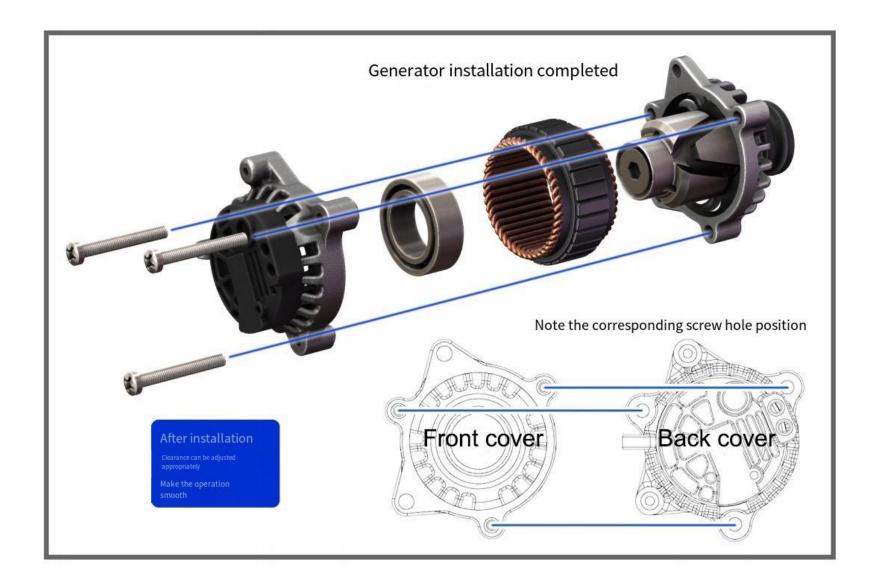
2pcs



Installation Step 15



Bearing 5x8x2

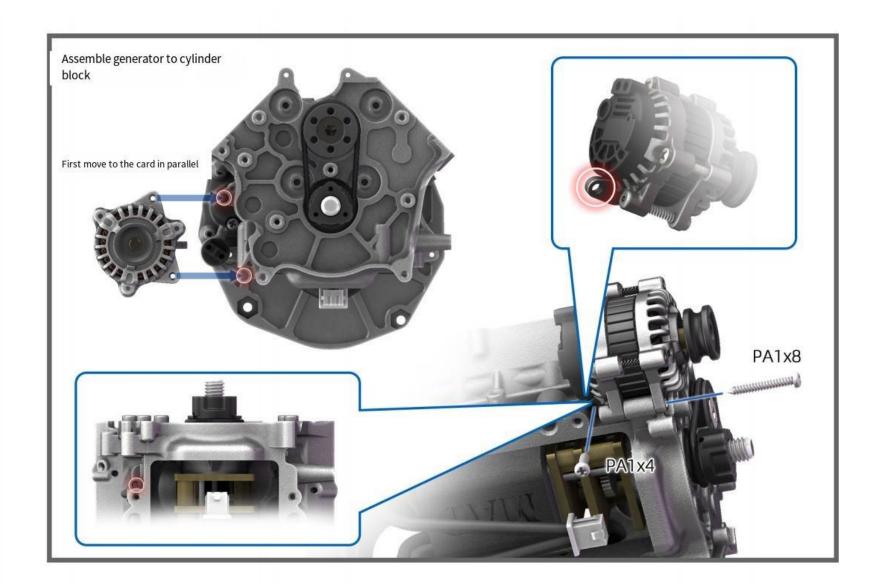


PA1x4



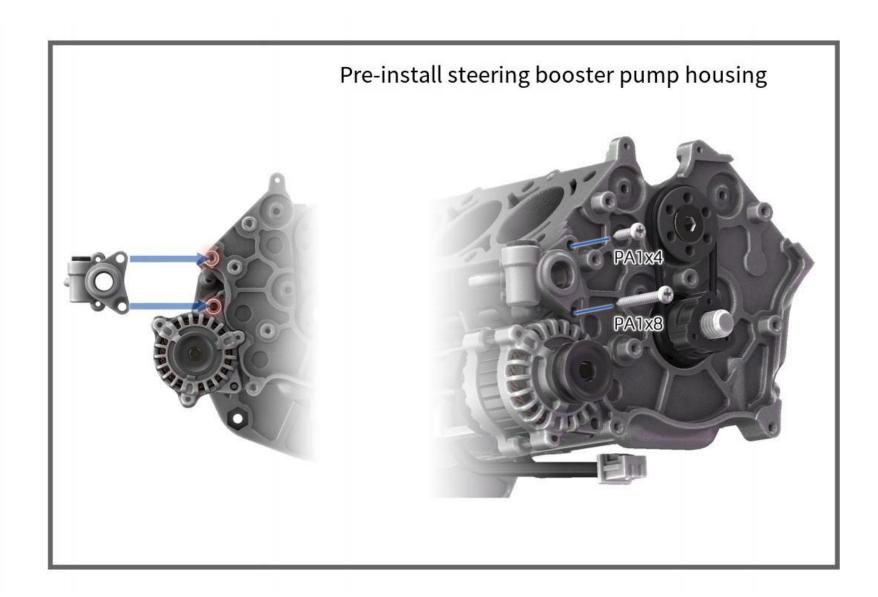
PA1x8





PA1x4

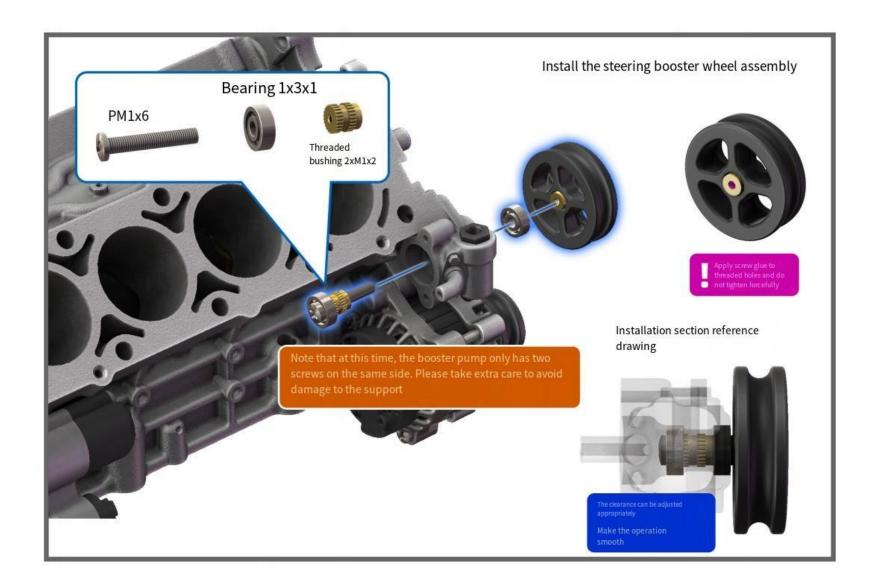
PA1x8



## To be added

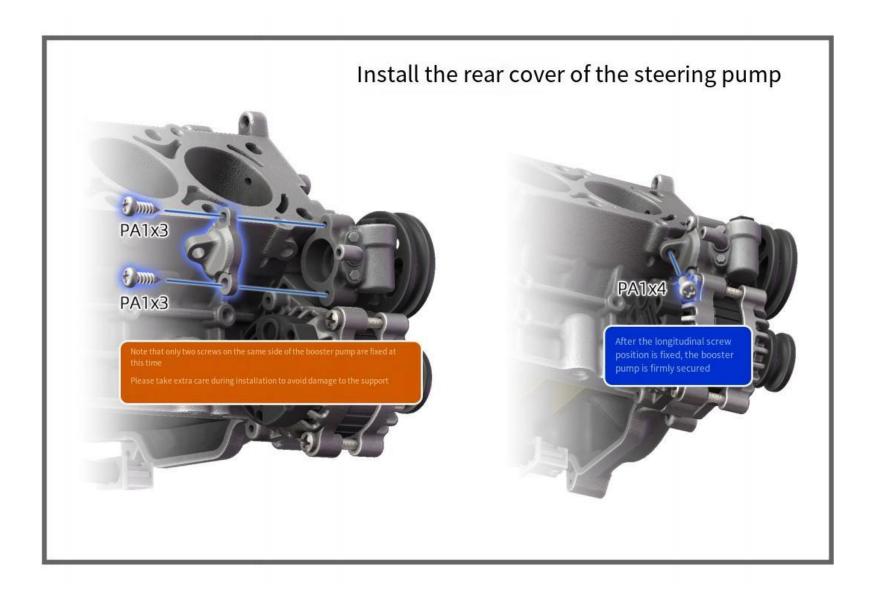


#### To be added



PA1x3 2pcs

PA1x4



#### PM1x8



Threaded shaft sleeve 2xM1x2



Threaded bushing 2xM1x0.8



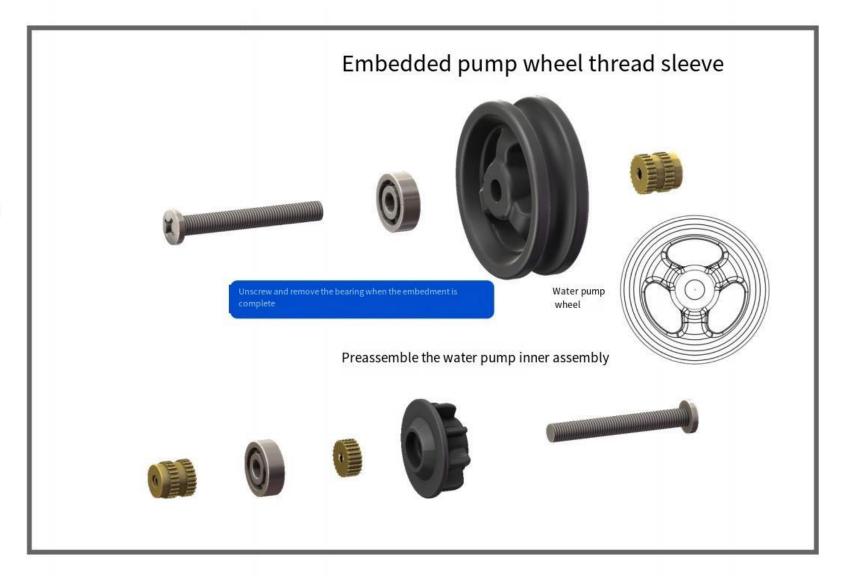
Bearing 1 x 3x1



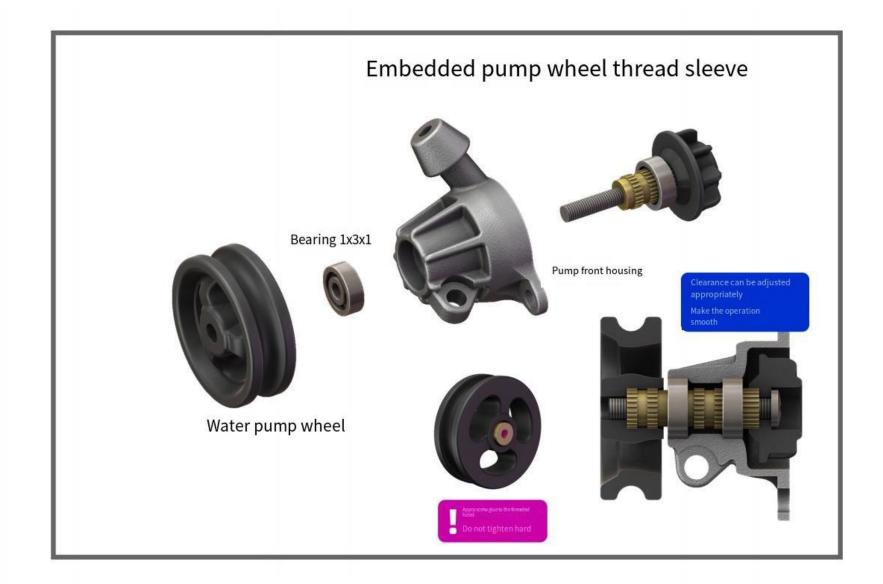
Pump impeller





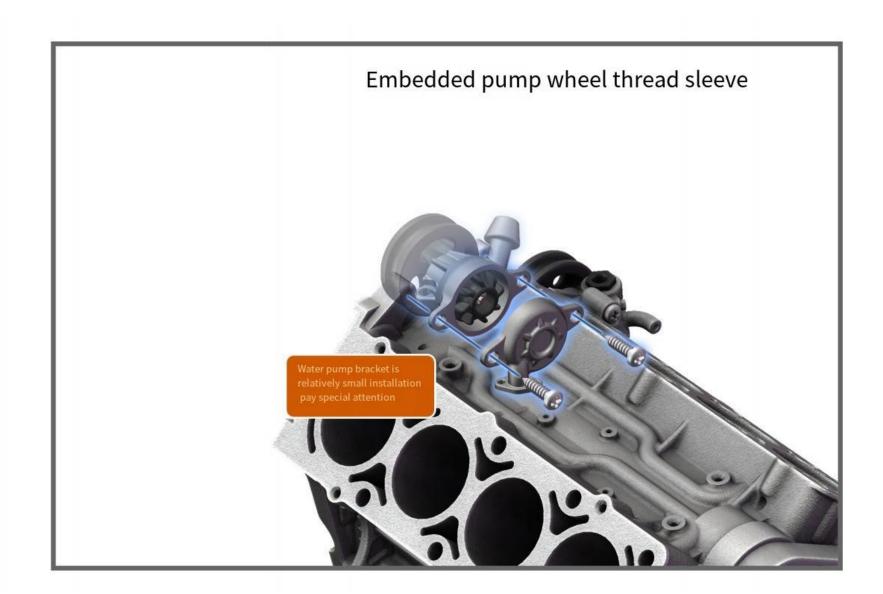


## To be added



PA1x4

2pcs

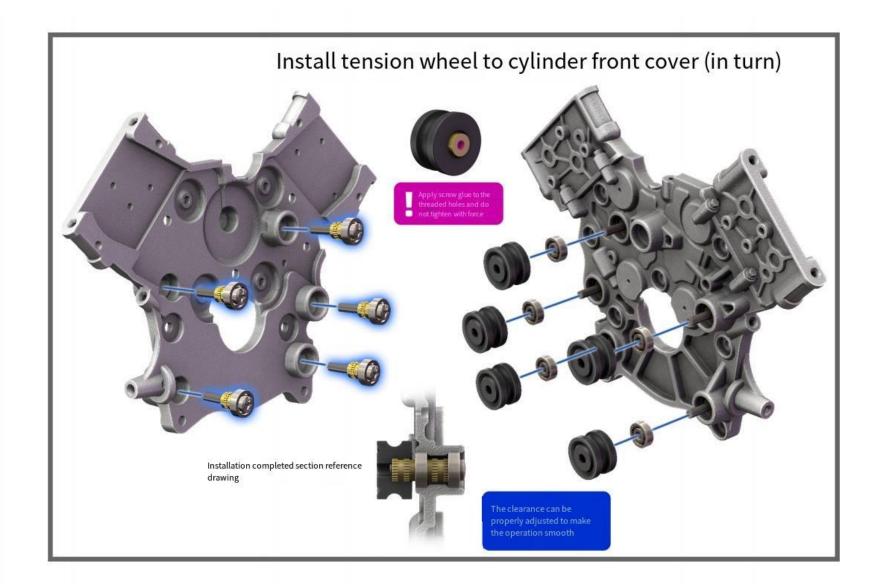


Installation Step 24

#### To be added

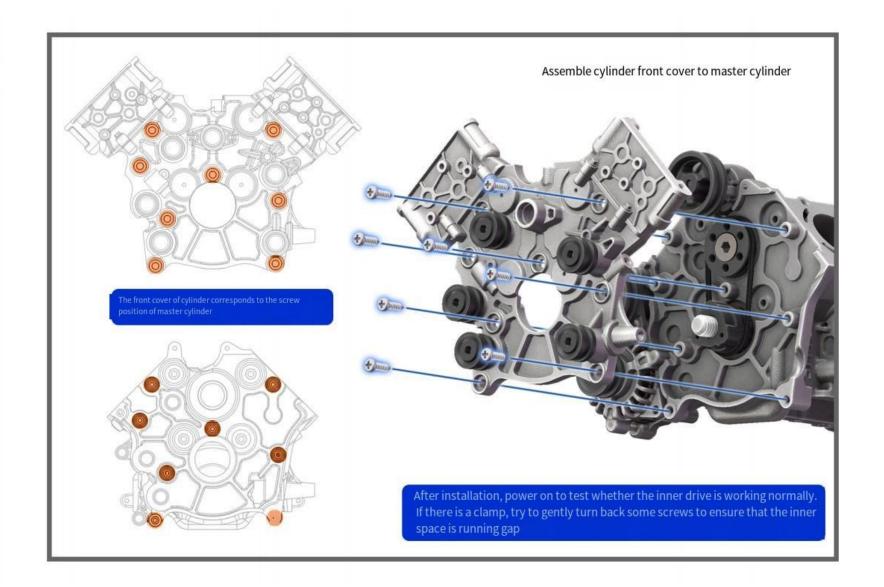


## To be added



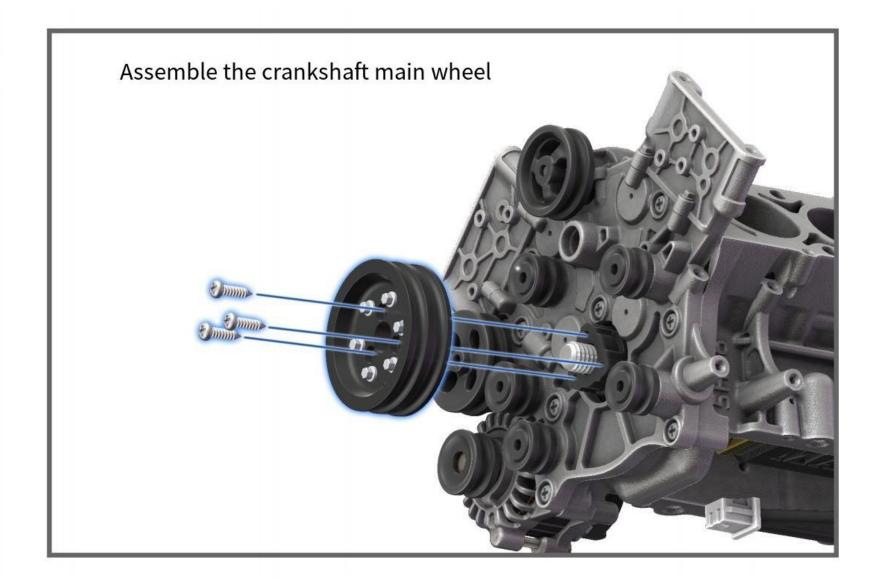
PA1x4



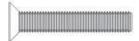


PA1x4

3pcs



#### KM2x14



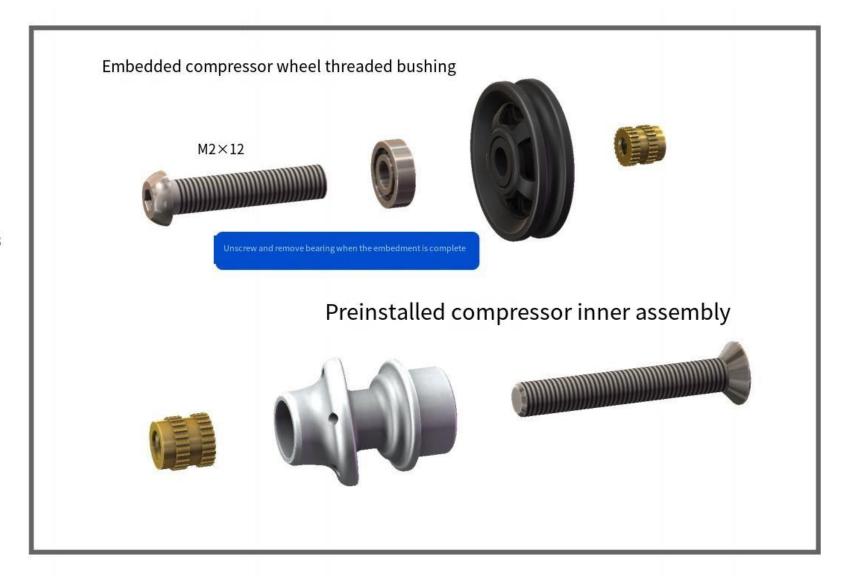
Bearing 2x5x1.5



Threaded sleeve 3xM2x3



2pcs

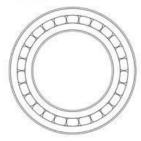


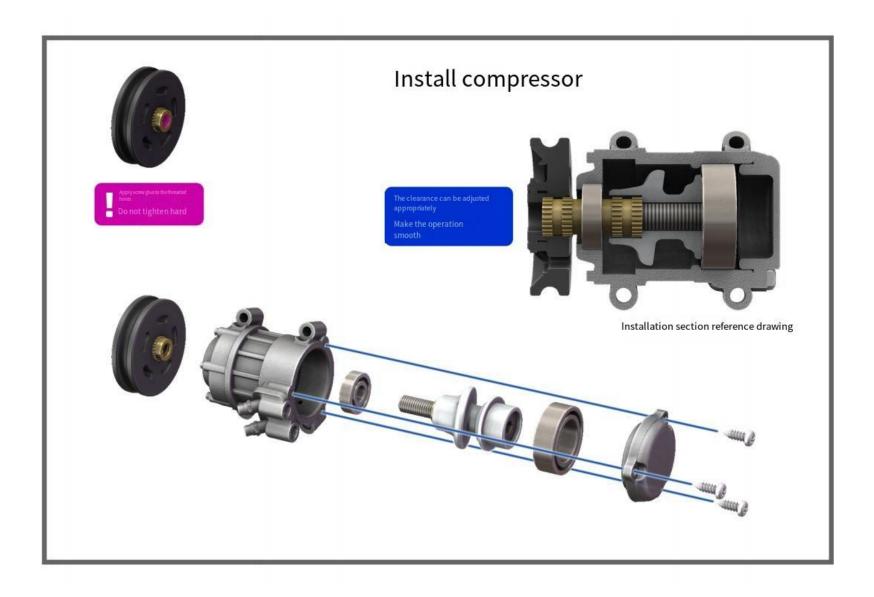


# Bearing 2x5x1.5



## Bearing 5x8x2

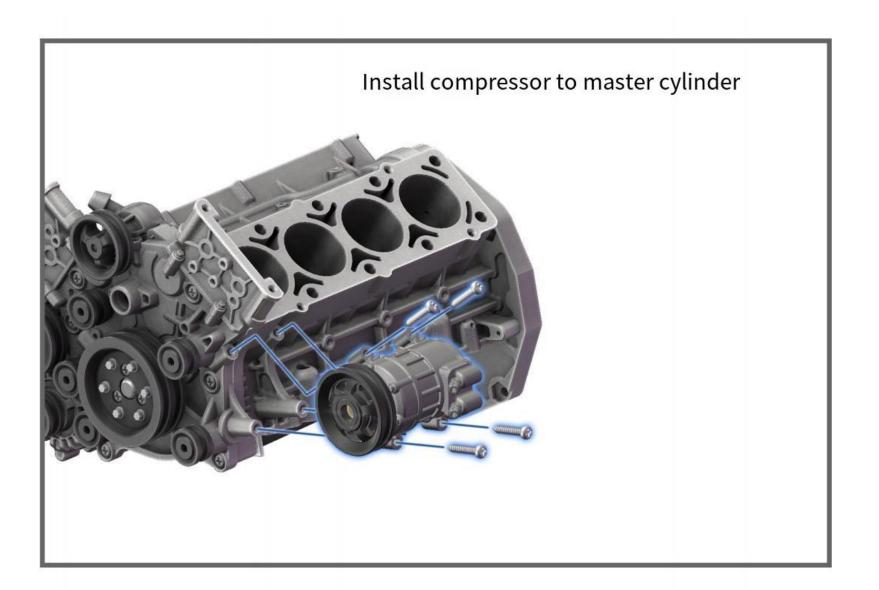




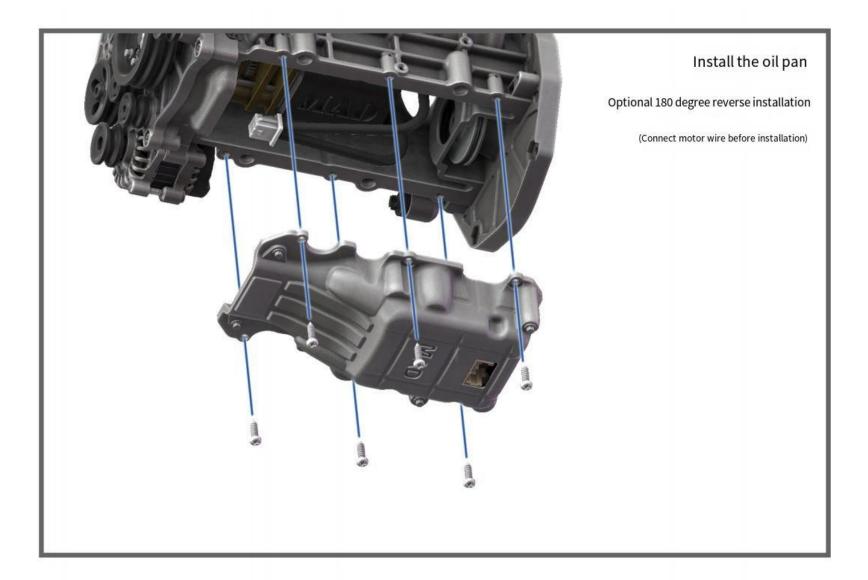
Installation Step 30

PA1x6

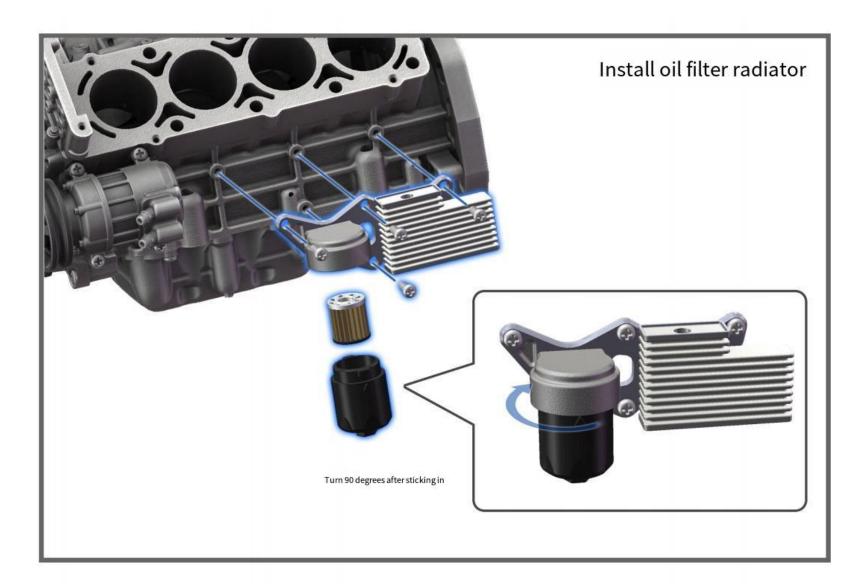
4pcs



THE SPECS



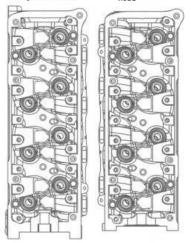
4pcs

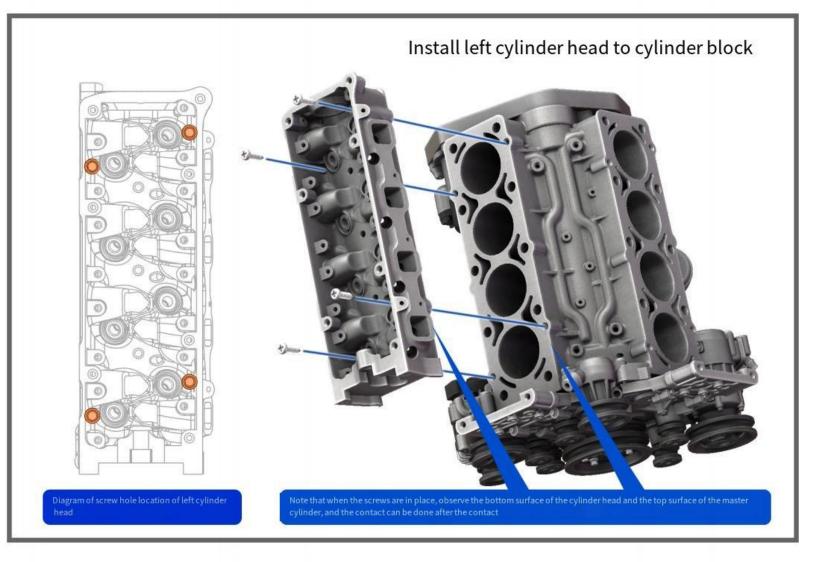


## PA1x4 4pcs

Note that the left and right cylinder heads distinguish the left cylinder head

Right cylinder head

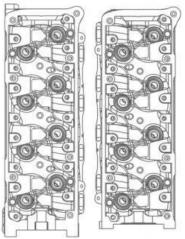


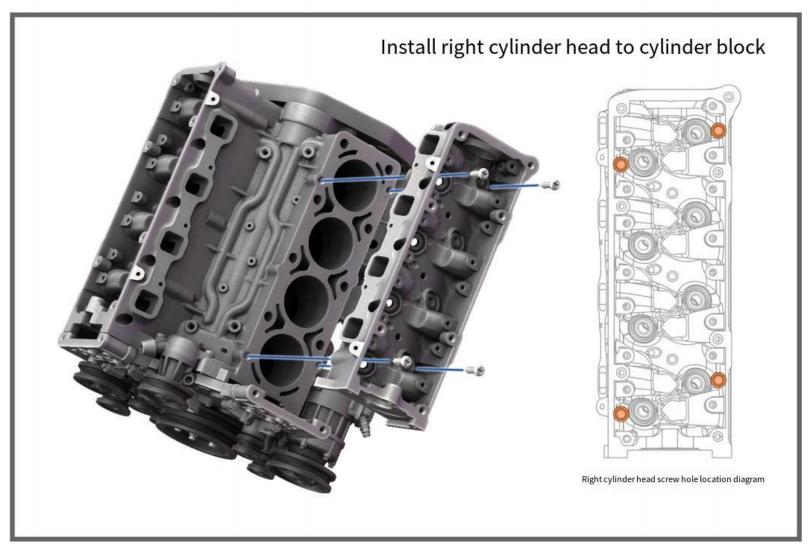




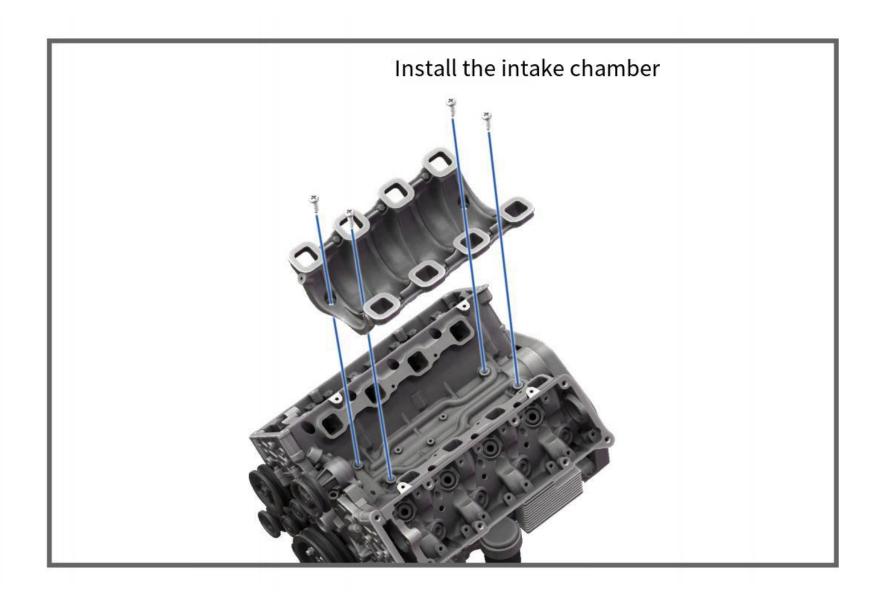
Note that the right and left cylinder heads distinguish the left cylinder head

Right cylinder head





4pcs

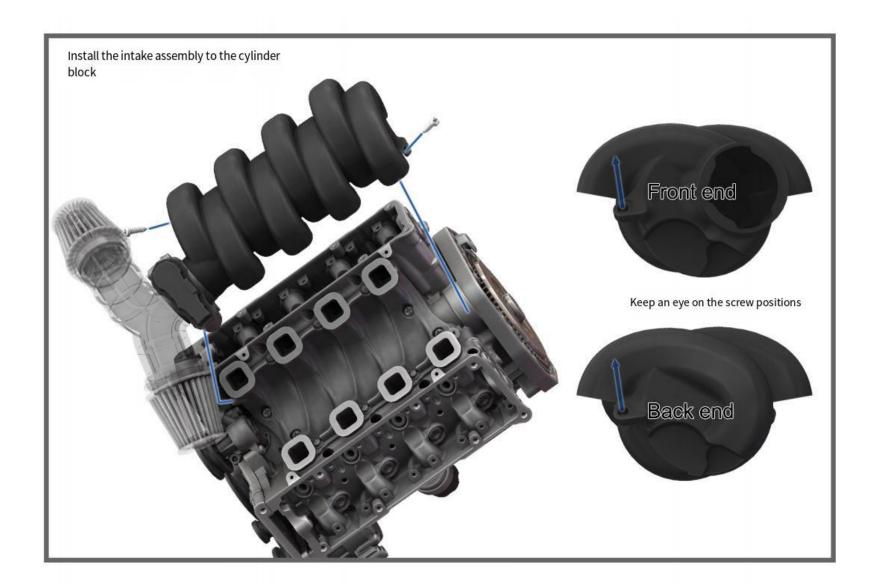


# Assemble throttle with intake manifold Turn 90 degrees after insertion The intake duct is fitted with the air filter element You can skip this step without installing the intake duct

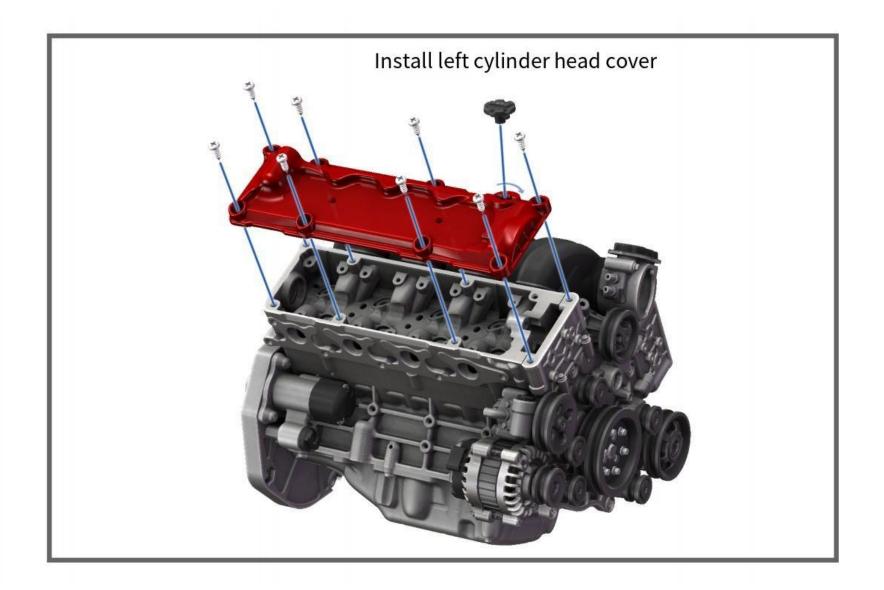
### Optional installation



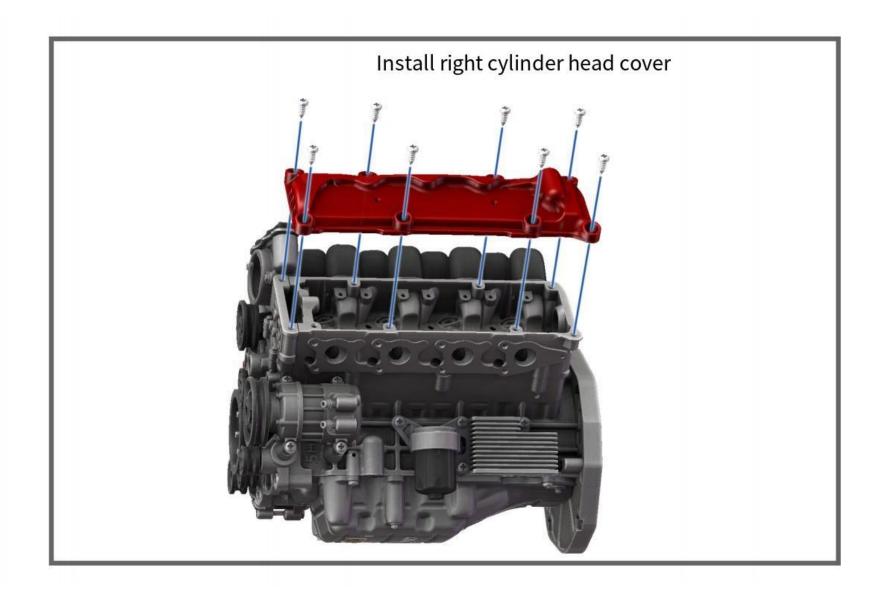
2pcs



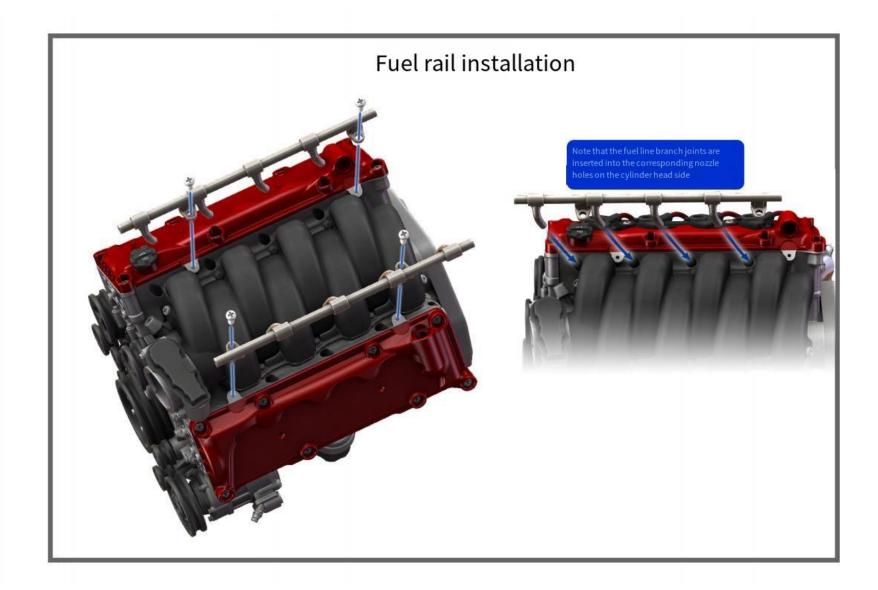
apcs 8pcs



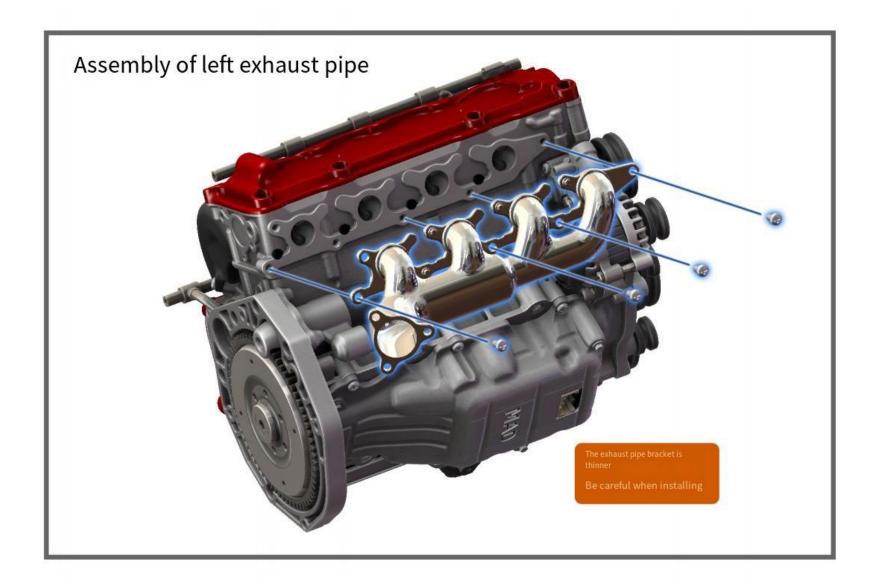
Spcs 8pcs



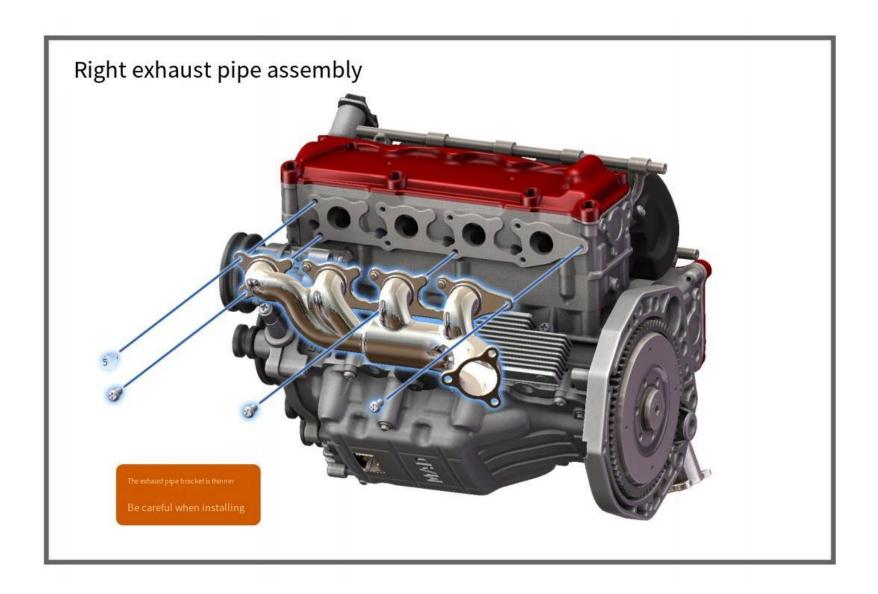




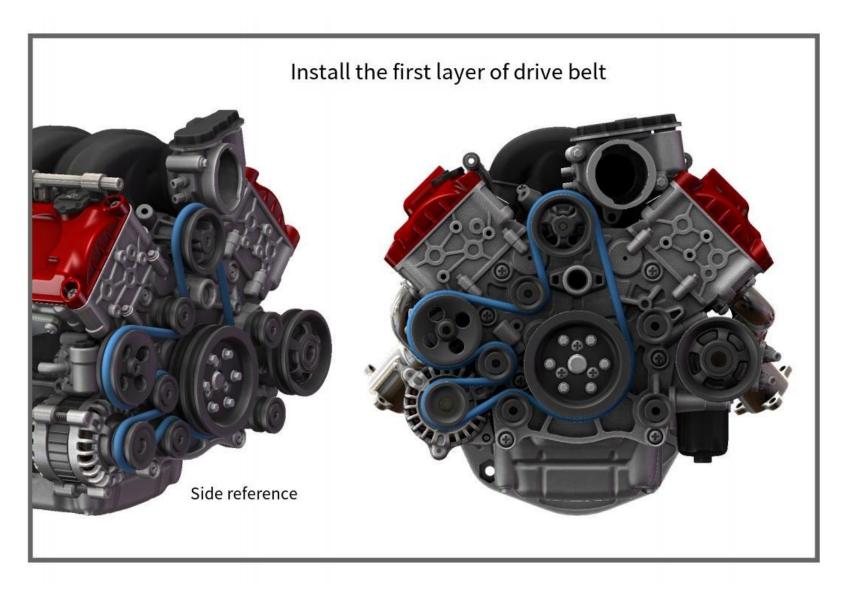




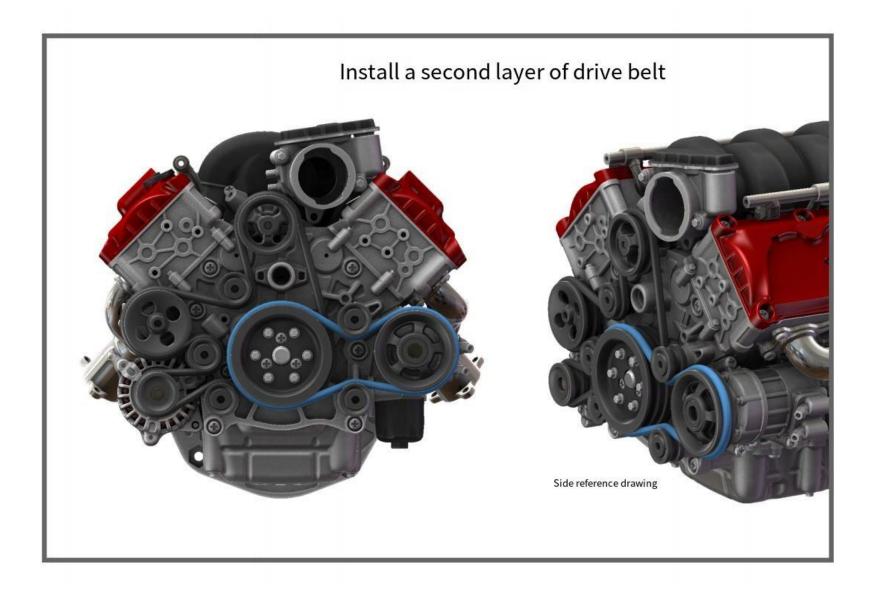
4pcs



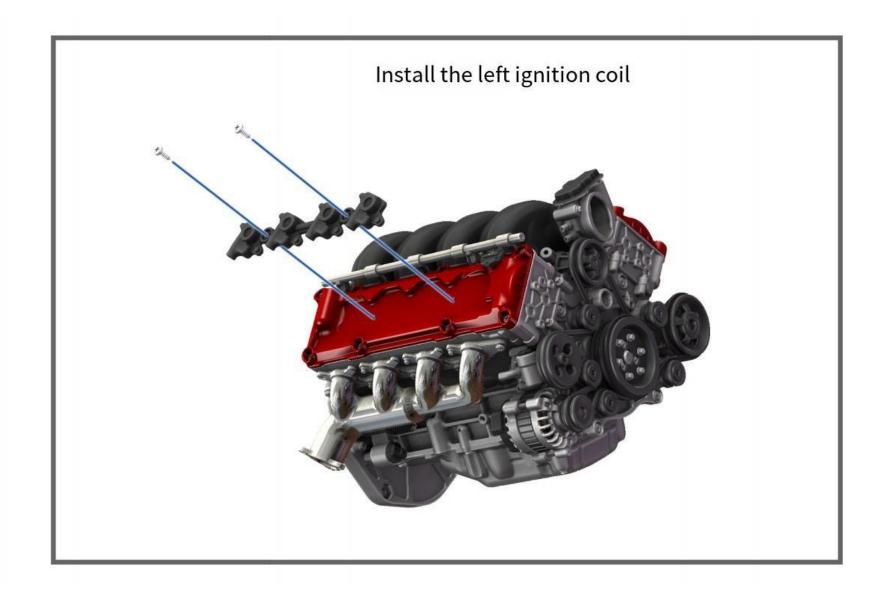


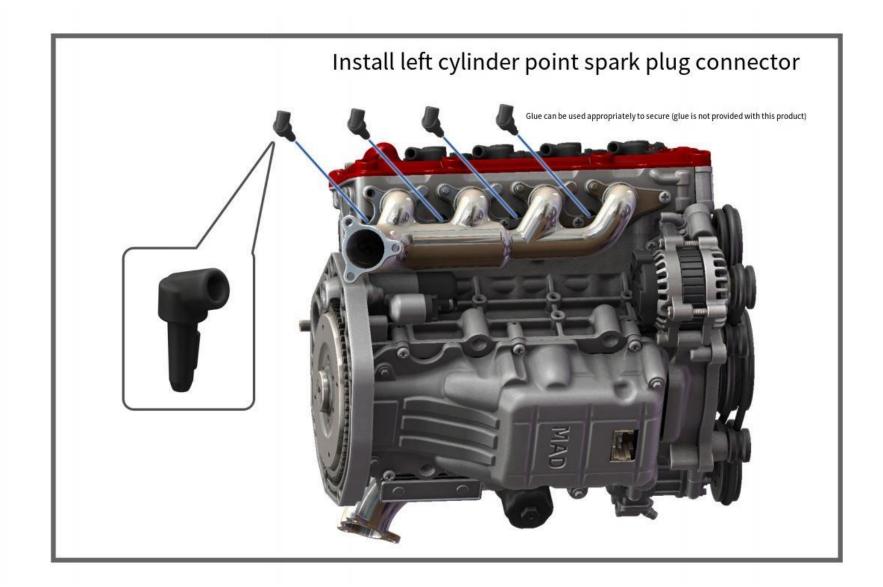






2pcs





# Wire the ignition coil to the spark plug connector Cut the wire to about 30mm and trim it according to the actual length

