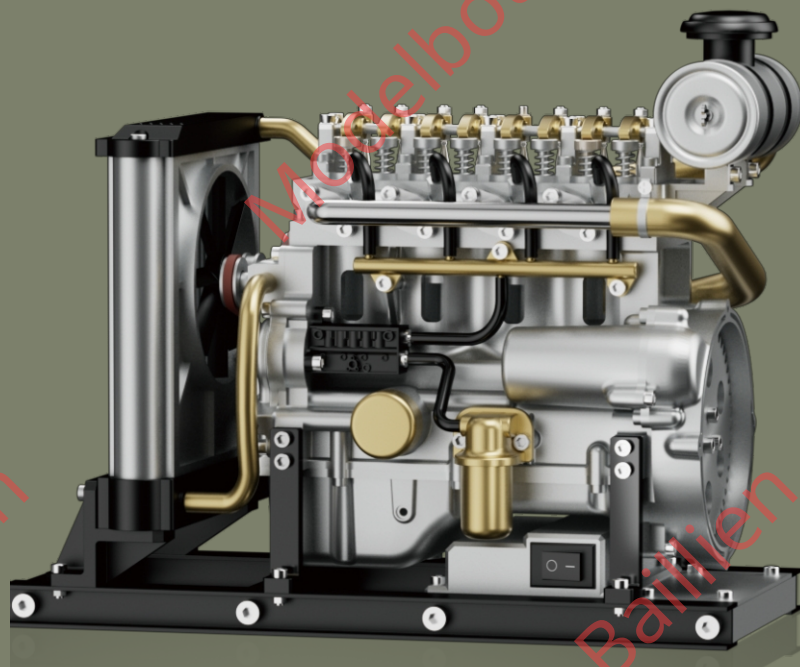




Mini 4-cilinder dieselmotor

Basisproductinformatie

P"6ü: 1J 5IAi ät ?/t
Productnaam: Mini 4-cilinder dieselmotor
motor

Î° o"n Ä@ : DM1 15
Productmodel: DM115

主要材料: 阳极氧化铝+不锈钢
Belangrijkste materialen: geanodiseerd
aluminium + roestvrij staal

充电电压: 直流5V
Laadspanning: DC 5V

Batterijcapaciteit: 450 mAh

组装难度等级: 四级

Niveau IV Î° o"n }k : GB/T9254—
2008

GB/T17626.2—2006

Productnorm: GB/T9254-2008

GB/T17626.2-2006

ÄÄ Ä: A

Kwaliteitscontrole: A

== @ n"n @ @ @ Montage-instructies voor het product

- | | | |
|-------------------|--|----|
| 1. @ Ä e xÖ.U | - Monteer de basis | 01 |
| 2. @ Ä7IBE | ' . - Monteer de zuiger-drijfstaangconstructie | 05 |
| 3. @ Ä 181 \$A, . | - Monteer de krukas | 06 |
| 4. @ @, . | - Monteer de oliepomp | 12 |
| 5. @ flit Uit | - Monteer de oliecarter | 15 |



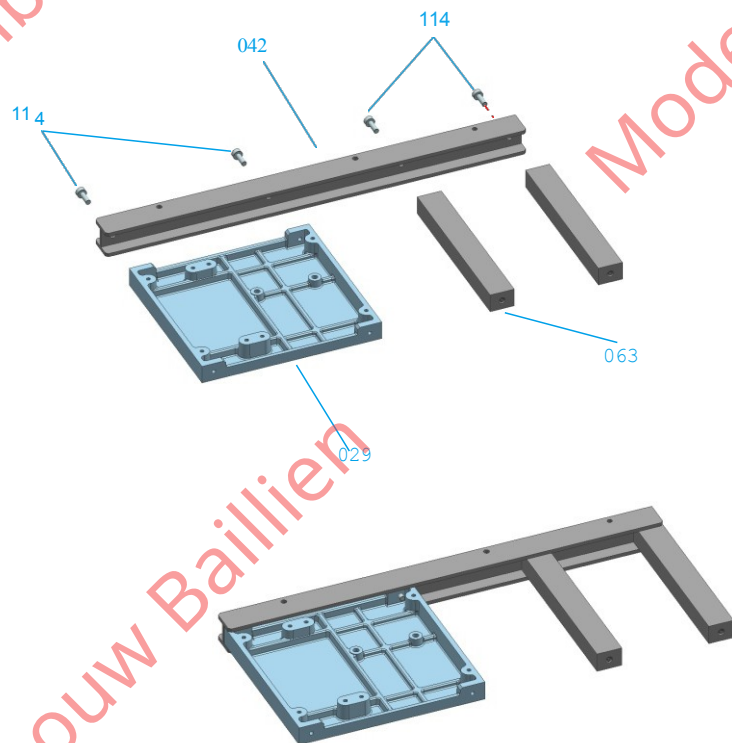
6#NTENTS

6. @ M@Ä @	Monteer de cilinderblokbeugel	16
7. @ 1 @ Y. !	Monteer de vliegwielbehuizing	17
8. NAAM	Monteer de cilinderkop	21
9. Cilinderkop monteren		22
10. @ @	Monteer de basisassemblage	23
11. îSt Cæ@, .	Monteer de uitlaatpijp	2s
12. @ III @, .C	Monteer het luchtfilterelement	30
13. @ , .C	Monteer de ventilatorbasis	33
14. @Ä/mt@ C îSîÇ	Monteer de ventilatorbasis	3s
15. @ 2k@ @îÇ	Monteer de waterpomp	35
16. @ t @ @îÇ	Monteer de spaninrichting	36
17. @ @ UJt/2.	Monteer de generator	38
18. Monteer de luchtcompressor		3s
19. 组装空压机组件	De generator aan sluiten	40
20. SR1ON, !	Sluit de spanningsregelaar aan	41
, @g" @ @f @	Lijst met productonderdelen	59-65
21. E@@ itttJt, .C	Sluit de generator aan	41
22. @ 7/@@îÇ	Monteer de waterpomp	42
23. @ M9 I2 @11	Monteer de ventilatorbasis	43
24. @Äj az9E	Monteren riemschijf	44
25. @ dîaz	Monteer de riem	45
26. EJ & @N @	Controleer de werking van de poelie	45
27. 组装风扇	Assemble the fan	46
28. 组装水箱总成	Monteer de watertank	47
29. @AD@, .J	Monteer de beugel	z0
30. @ N îIII @	Monteer de oliedistributieleiding	51
31. @ÄîIII @@	Montage van de oliepompleiding	52
32. E@7y@ îj 7kB	Sluit de uitlaatleiding van de waterpomp aan	s3
33. @7/ @@7/ @	Sluit de inlaatleiding van de waterpomp aan	s4
34. @ IEC @	Sluit de hogedruk-aanzuigleiding aan	5s
35. @flî/E @ @	Sluit de lagedruk-aanzuigleiding aan	s6

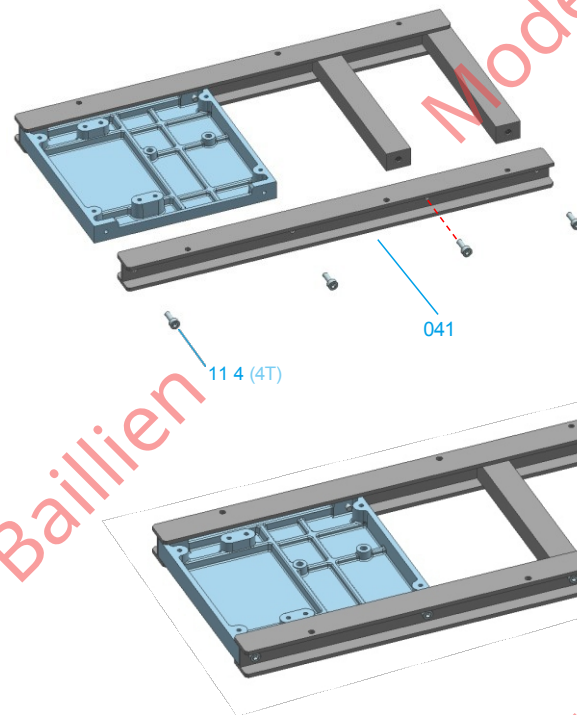
9 n°n B&â iJt 04 Montage-instructies voor het product

1. @ Cx. . - Monteer de basis

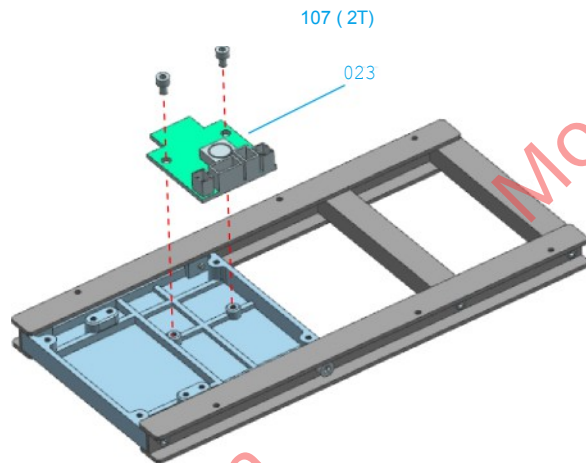
1.1 @ @,tL Cv
- Monteer de batterijhouder



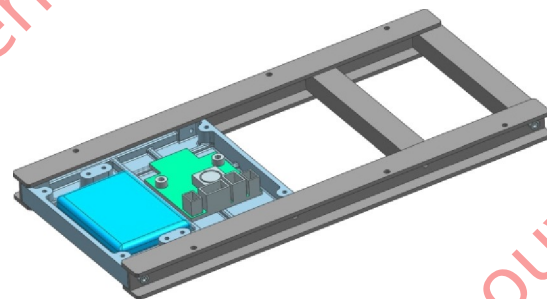
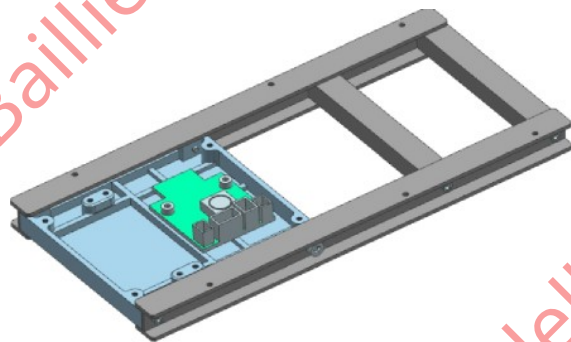
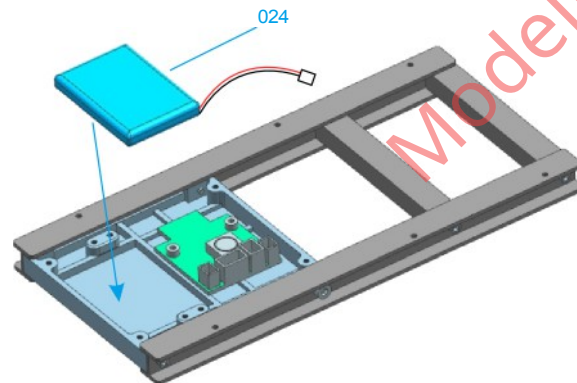
1.2 @ IN
-Montage van de langsbalk



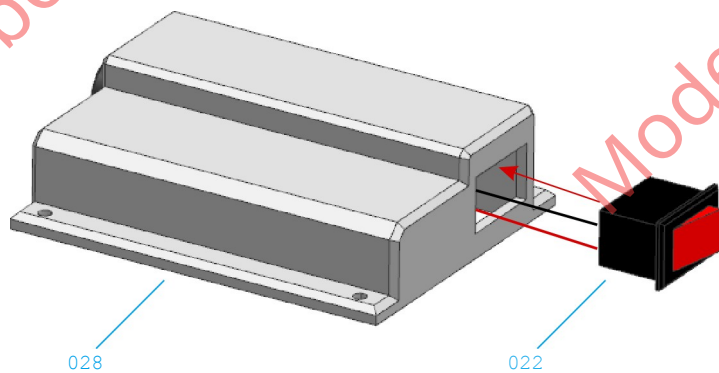
1.3 zsl fg@IO
-Montage van printplaat



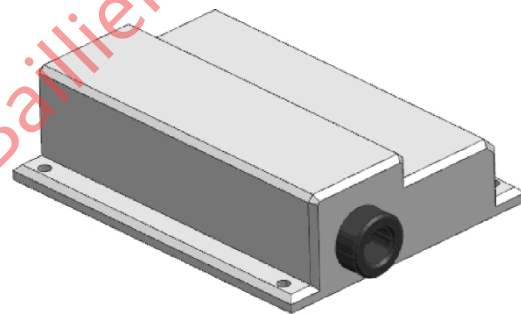
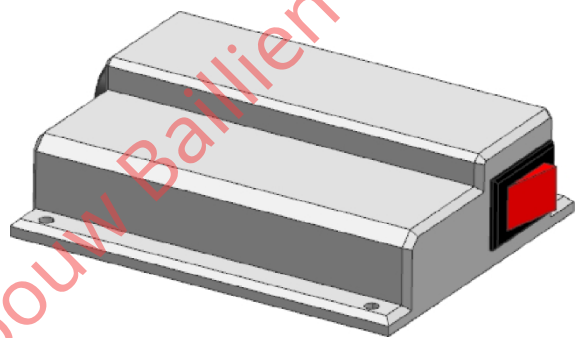
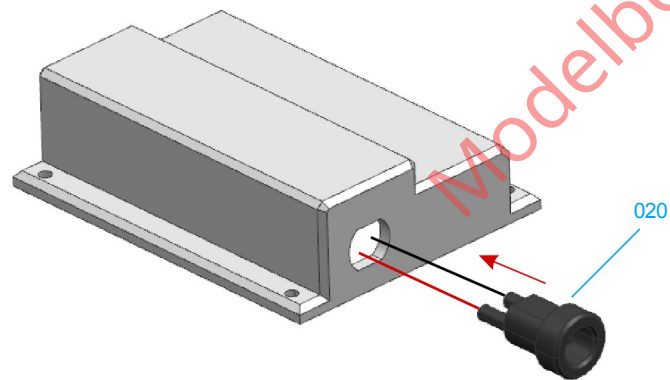
1.4 @ ft:tL
-De batterij in elkaar zetten



1.5 @ @
-De schakelaar monteren

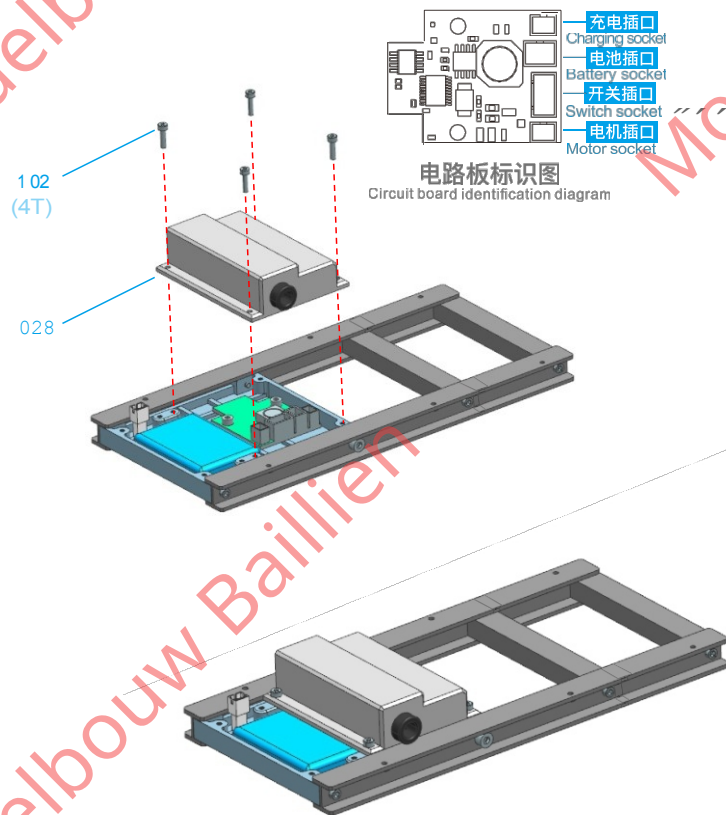


1.6 @ @
-De oplaadkop monteren



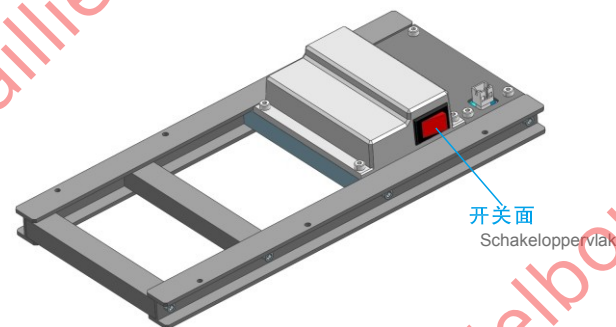
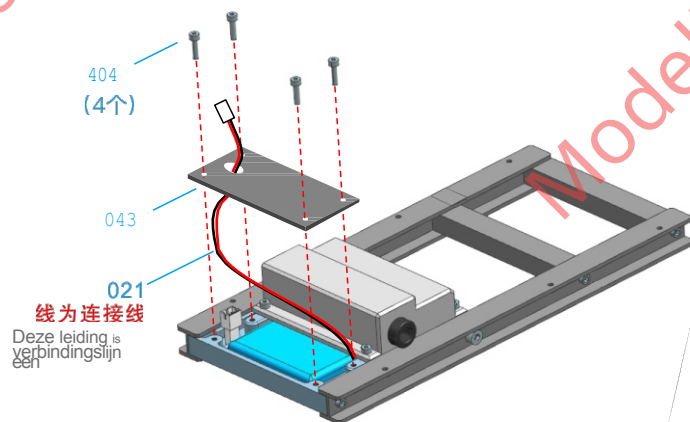
1.7 @ f\ @IO@t@

- Monteer de afdekking van de printplaat



1.8 @ sfk@{#

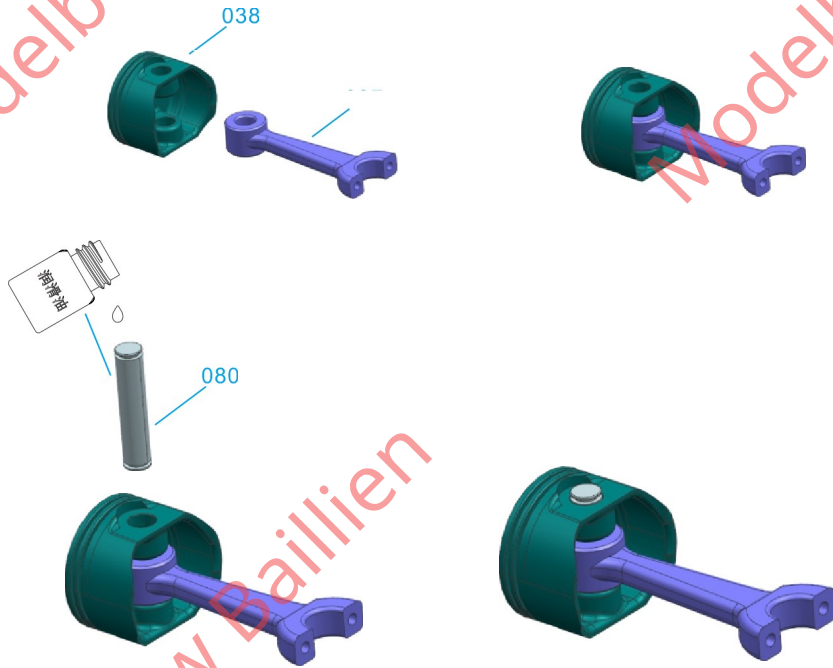
-Monteer het batterijklepje



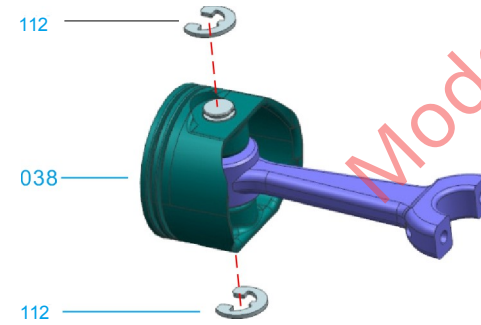
Basisassemblage

2. @ @EU. . - Monteer de zuiger-drijfstangconstructie

2.1. @ ,B@
- Monteer de zuiger-drijfstang



2.2 @ @
-Monteer de borgring

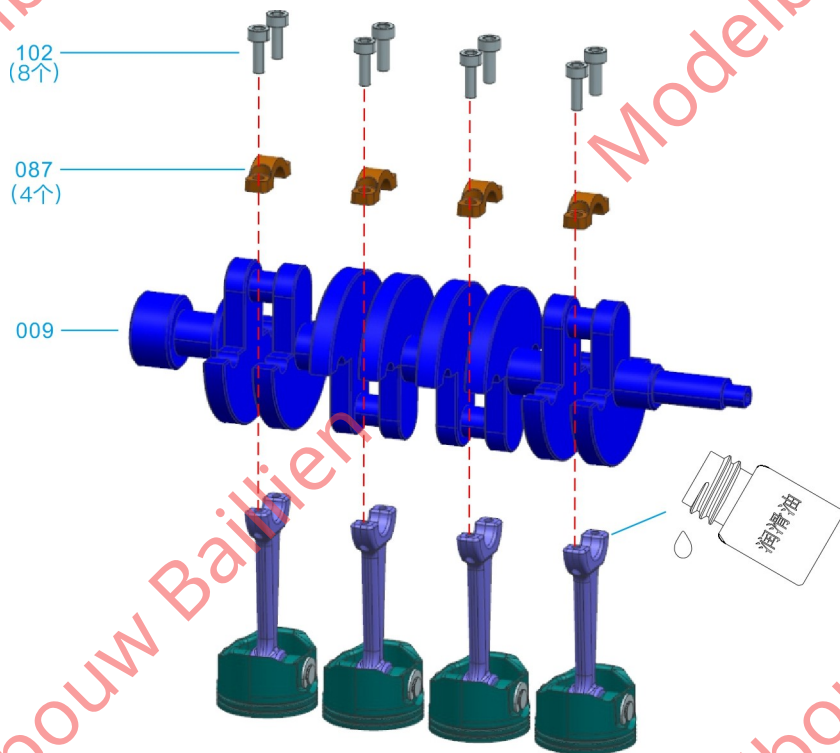


..4tg
4 groepen in totaal

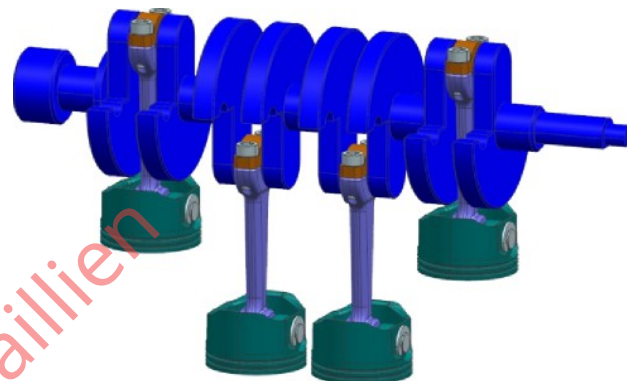
3. @ @ \$g. - Monteer de krukas

*.1 s C.

-Montage van de drijfstang



Drijfstangassemblage

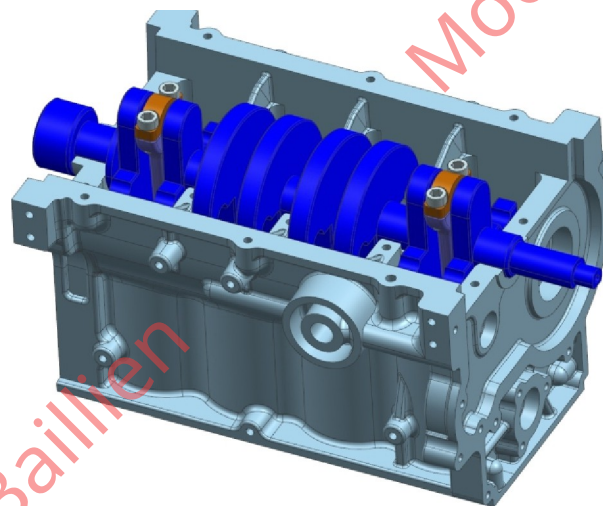


3.2 @ @ \$g-0\$!@

- Monteer de krukas en het cilinderblok

Drijfstangasse
mblage

Let op: het smalle uiteinde
van de krukas is gericht
naar
naar rechts

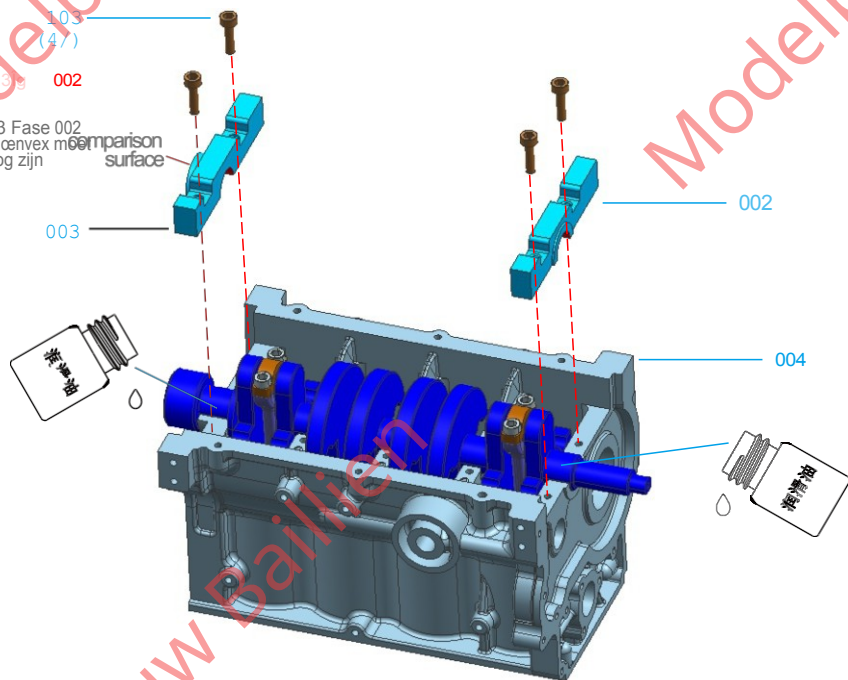


注意油泵滤芯孔朝向正面

Let op: de opening van het oliepomppfilterelement is naar voren gericht

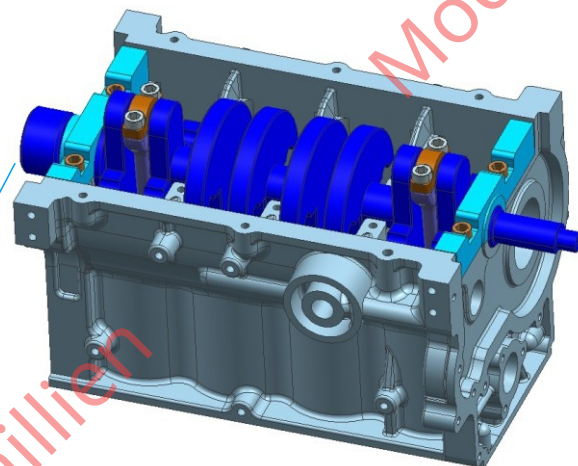
3.3 3.3.3

- Monteer de pakkingbus aan het uiteinde van de krukas



3.4 3.4.1

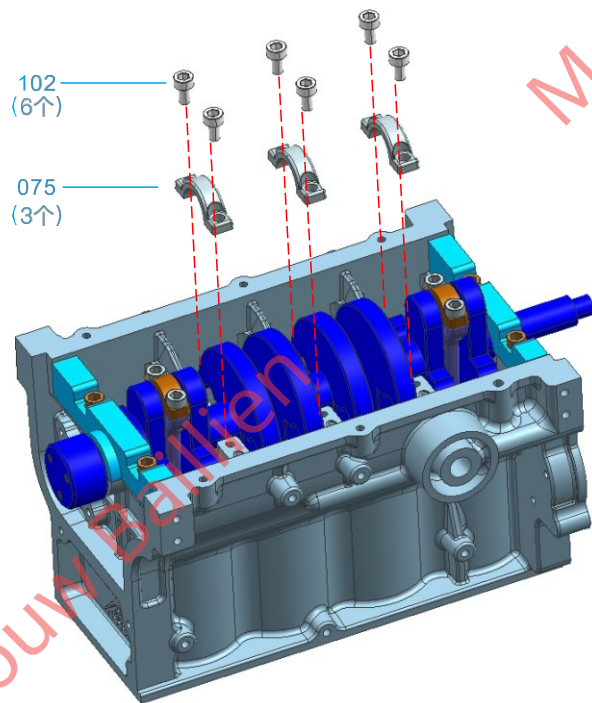
- Handmatige test



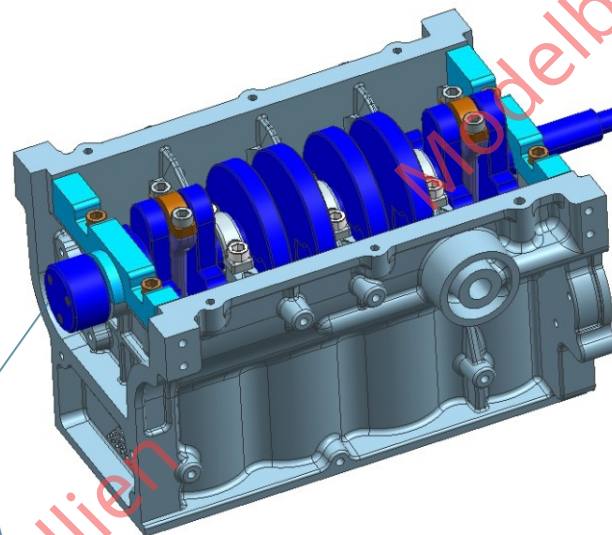
用手旋转曲轴，观察其是否转动顺畅

Handmatige test:
Draai de krukas met de hand en kijk of deze soepel draait

3.5 组装曲轴轴瓦 -Assembling crankshaft bearing shells



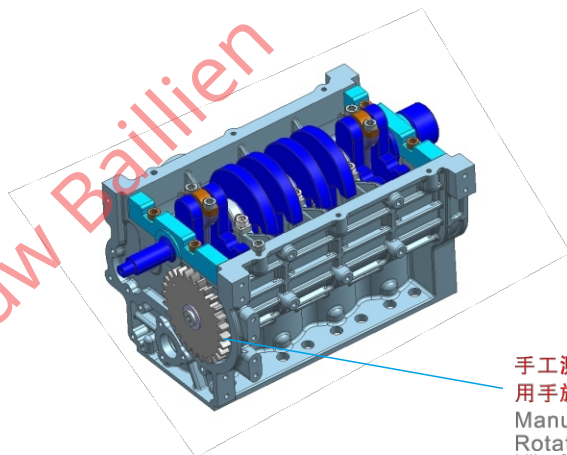
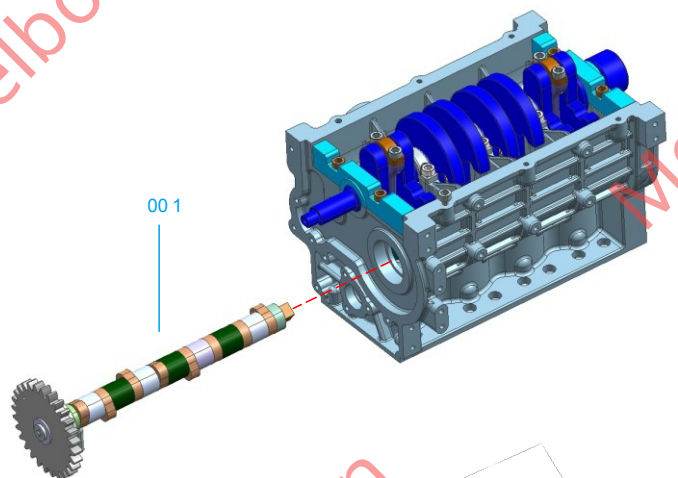
3.6 手工测试 -Manual test



手工测试：
用手旋转曲轴，观察其是否转动顺畅

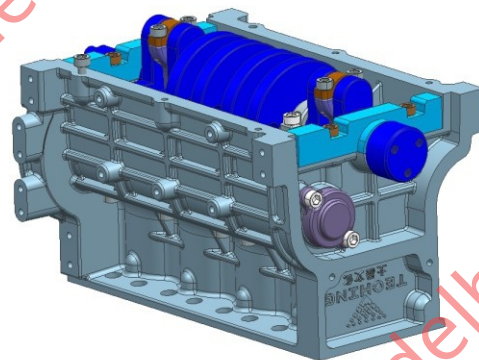
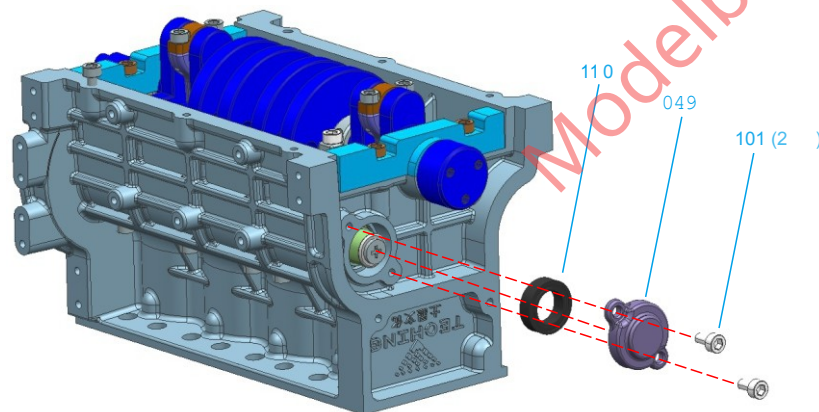
Manual test:
Rotate the crankshaft by hand and
observe whether it rotates smoothly

3,7 @ D \$g
- Monteer de nokkenas

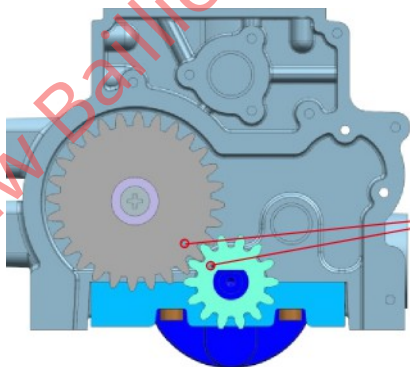
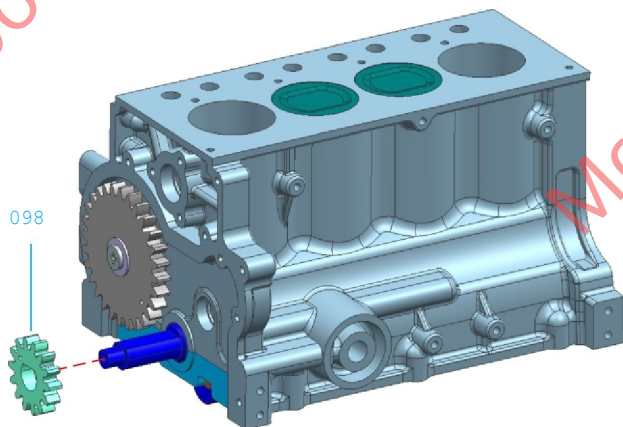


手工测试:
用手旋转凸轮轴, 观察其是否转动顺畅
Manual-test:
RotatPak de nokkenas met de hand vast en
kijk of deze soepel draait

3. sxa«»txt.z
- Monteer de eindkap van de nokkenas

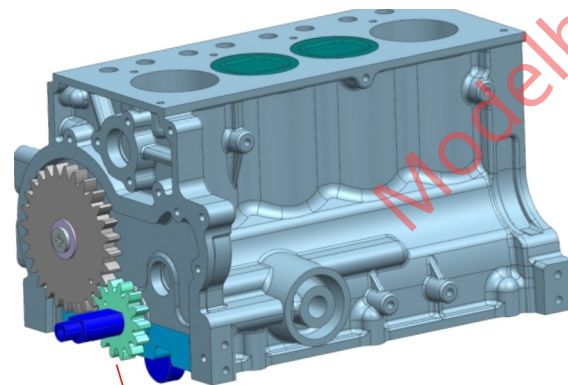


3.9 @ SBI\$g
-Montage van het krukas-tandwiel



注意:
两齿轮啮合时, 正时点必须对齐!

OPMERKING
Wanneer de twee tandwielen in elkaar grijpen, moeten de distributiepunten op elkaar zijn afgestemd!

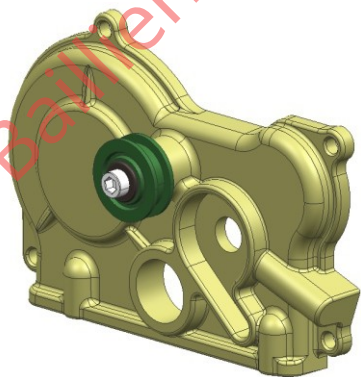
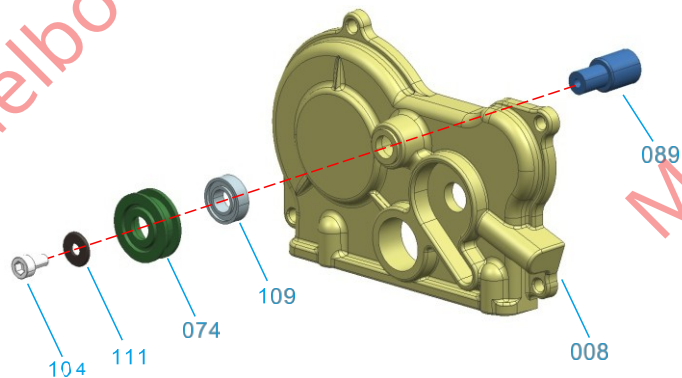


手工测试:
用手旋转曲轴, 观察凸轮轴与曲轴是否传动顺畅。

Handmatige test:

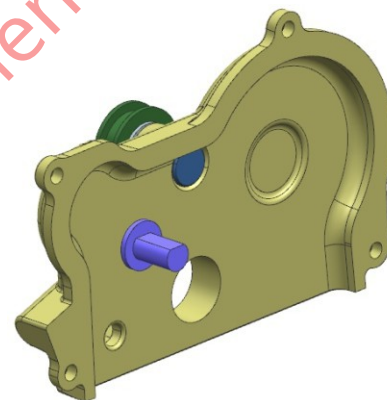
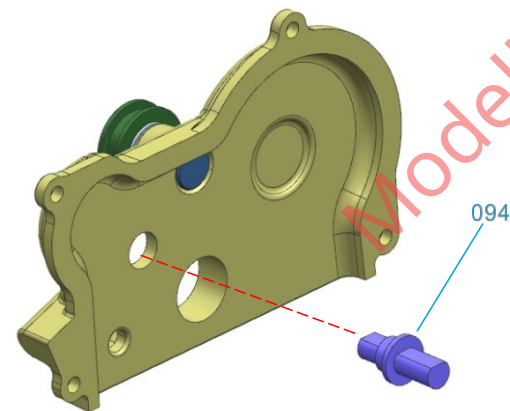
Draai de krukas met de hand rond en observeer of de nokkenas en krukas soepel draaien.

3.10 组装皮带轮
-Assembling belt pulley



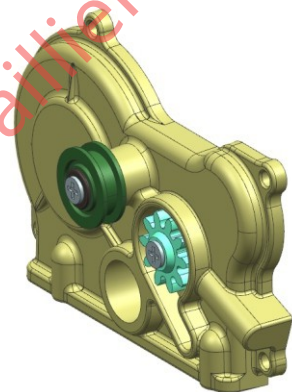
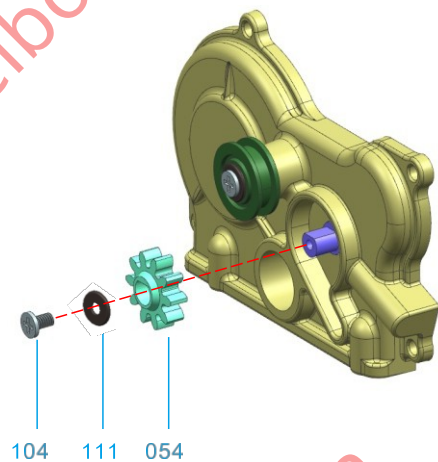
4. 组装油泵总成 -Assemble the oil pump assembly

4.1 组装油泵轴
-Assemble the oil pump shaft



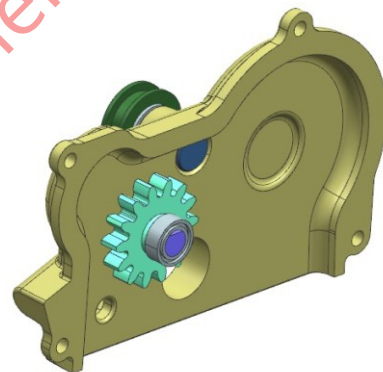
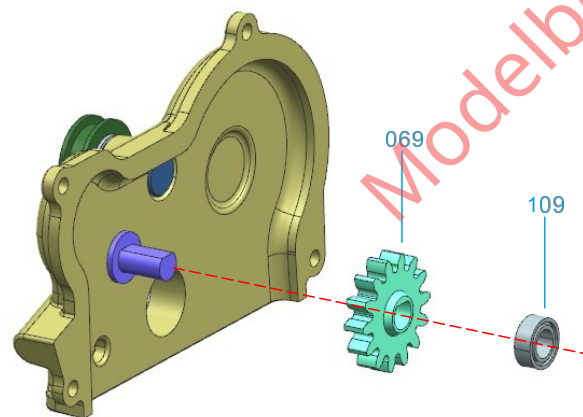
4.2 组装油泵齿轮

-Assemble the oil pump gear



4.3 组装油泵主动齿轮

-Assemble the oil pump driving gear

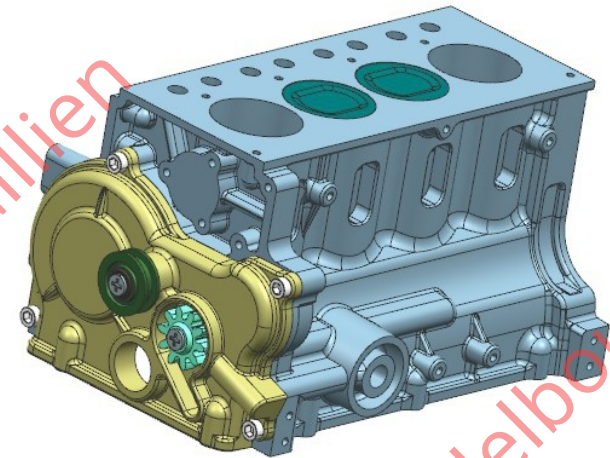
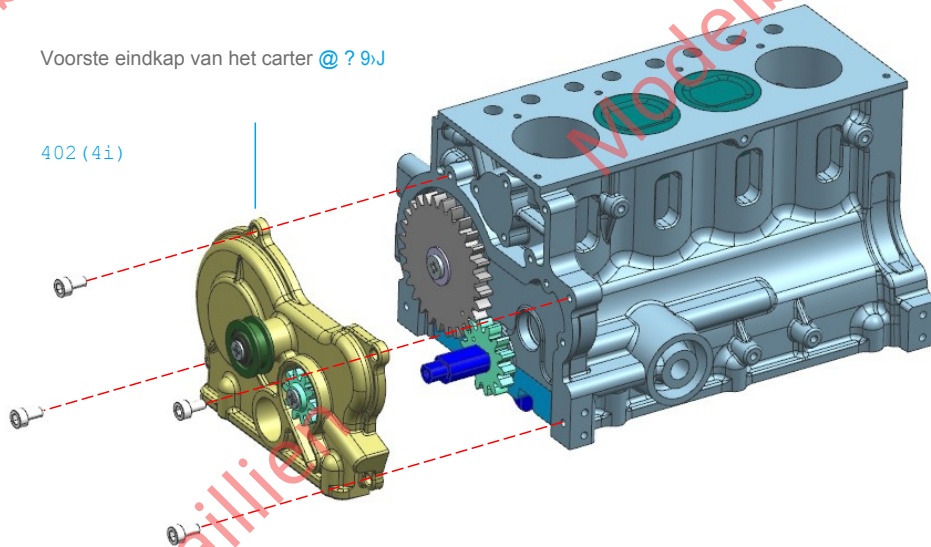


4.4 @ I @tm@,

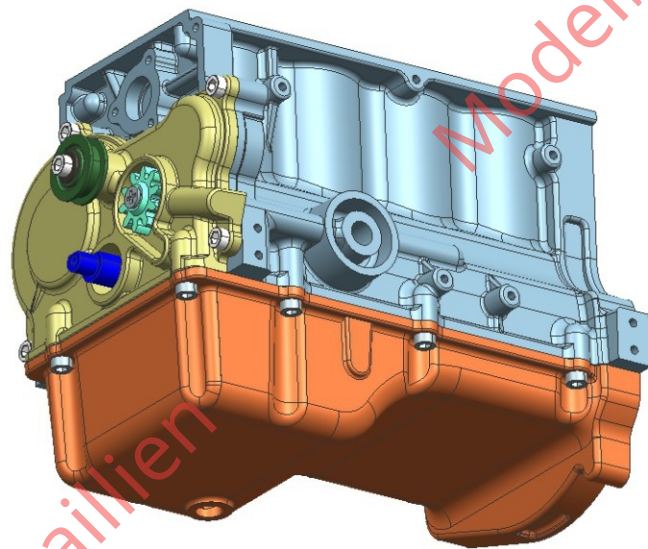
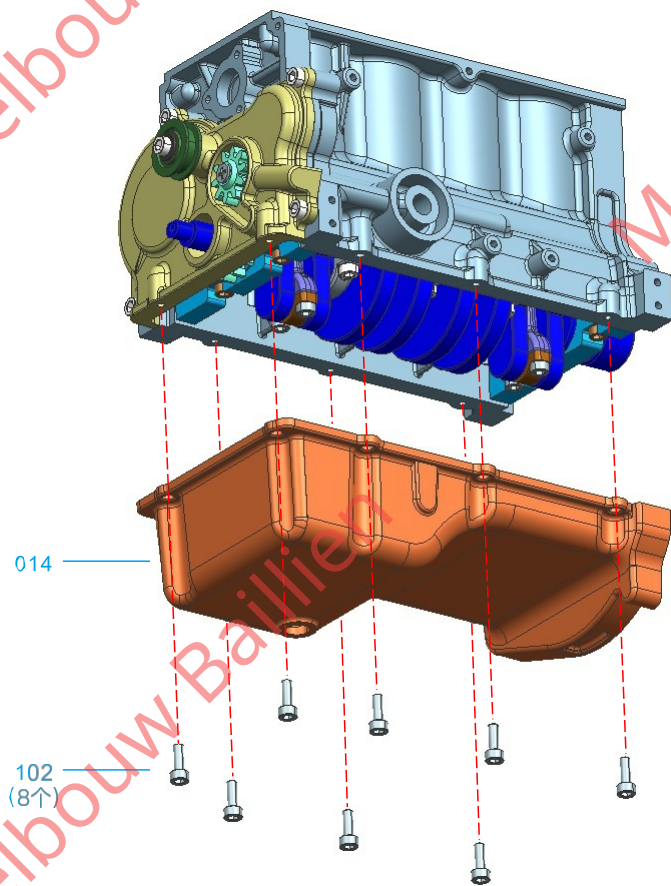
- Monteer de eindkap van de oliepomp

Voorste eindkap van het carter @ ? 9;J

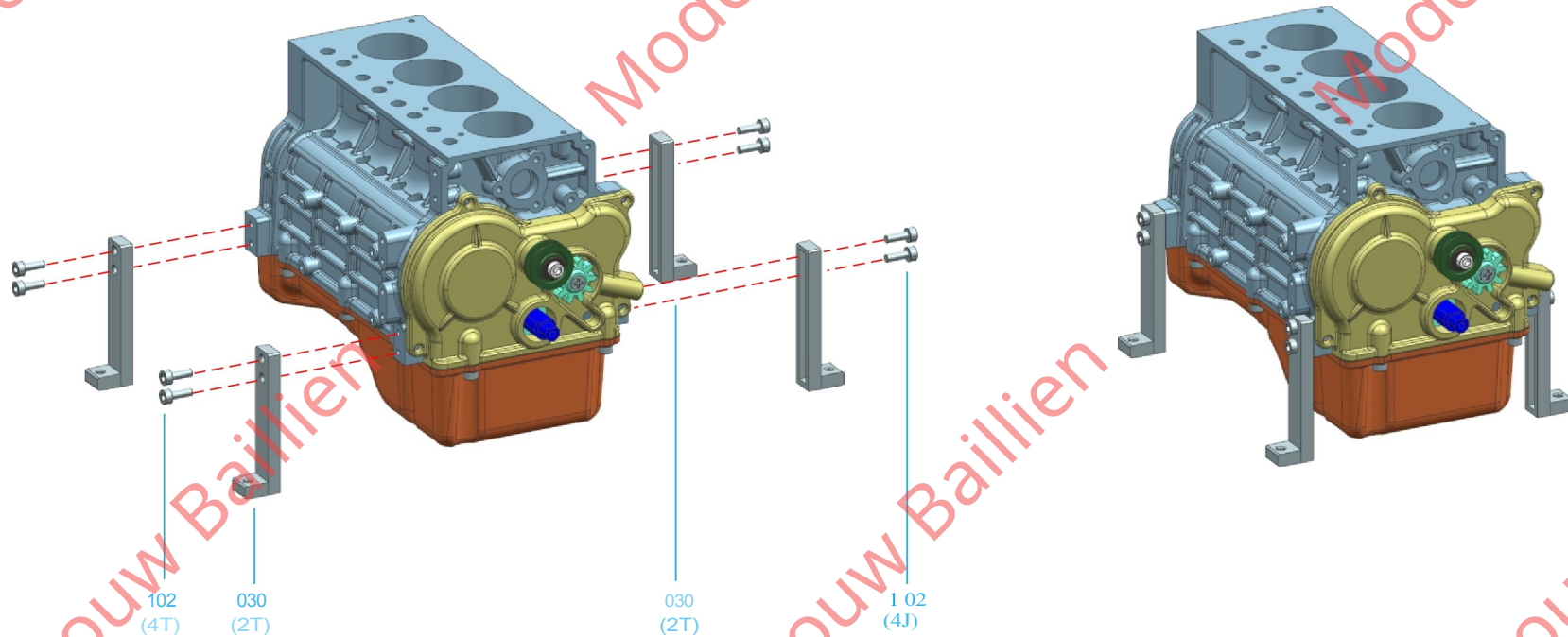
402 (4i)



5. 组装油底壳-Assemble the oil pan

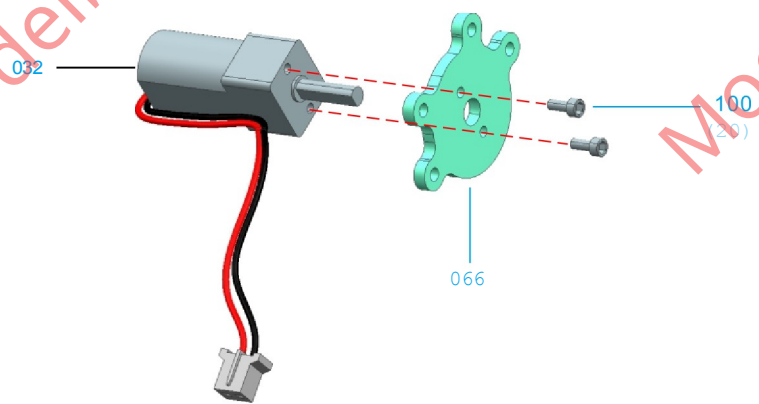


6. @ fltT@A N! - Monteer de cilinderblokbeugel

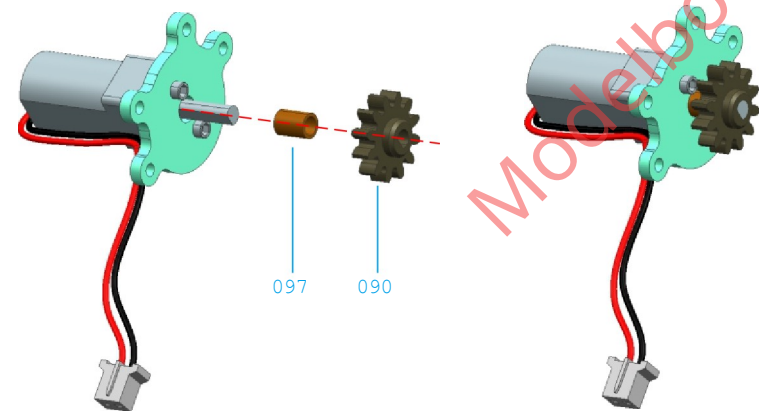


7. @ 1\$fi . . - Monteer de vliegwielsehuizing

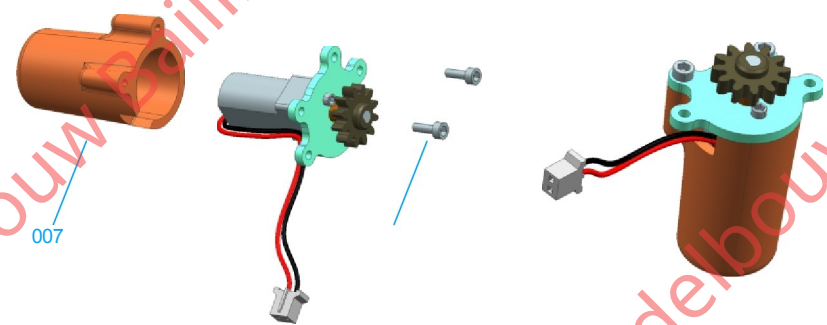
7.1 @ @ UI@ Cv
-Montage van de motorbevestigingsbasis



7.2 @ @ UIF
-Montage van motortanden



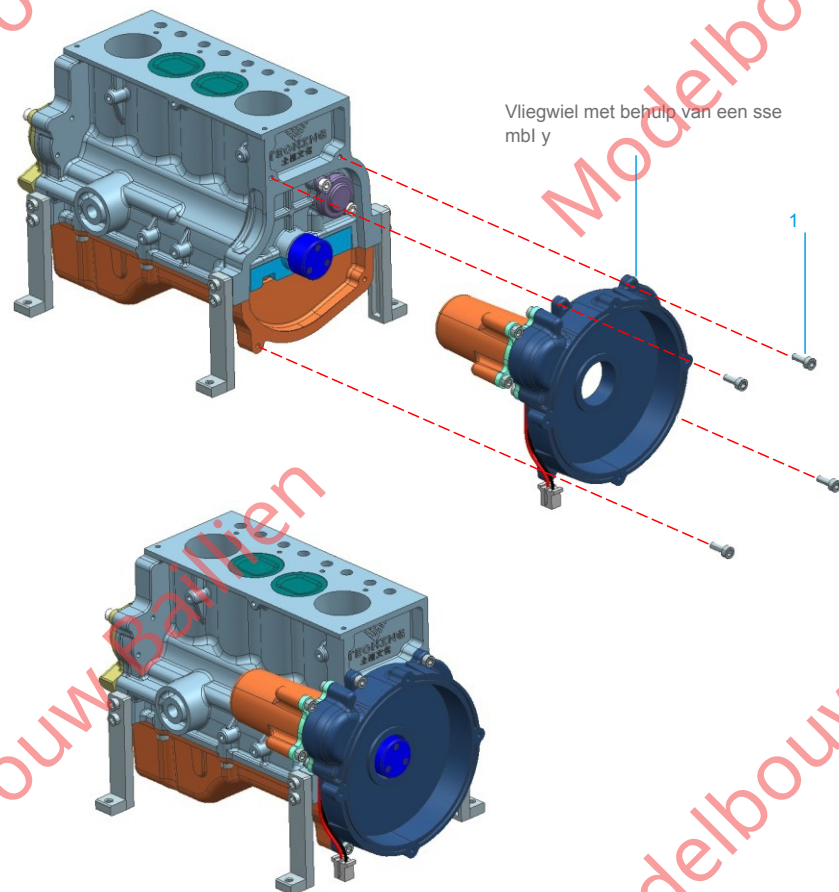
7.3 i f\$UtL
-Monteer de motorkap



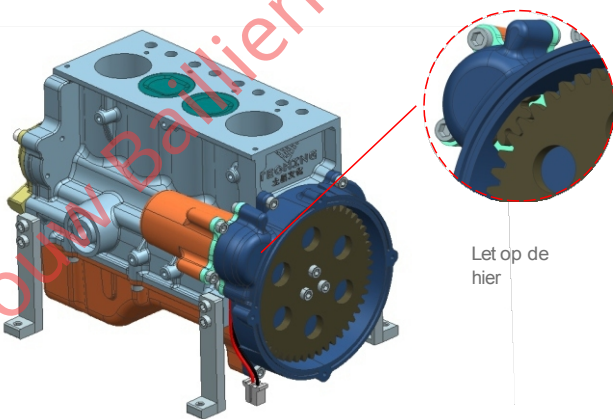
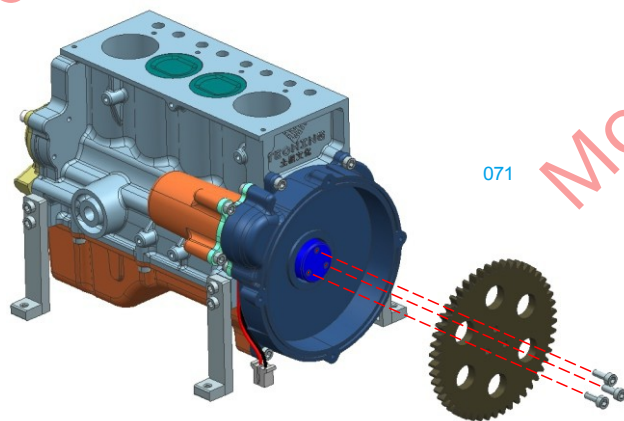
7.4 @ US -Vliegwielsehuizing monteren



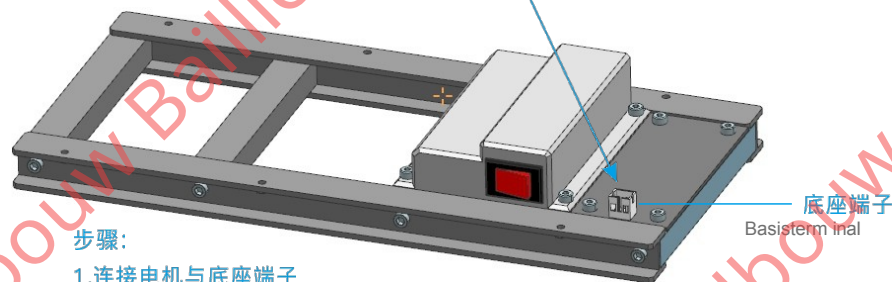
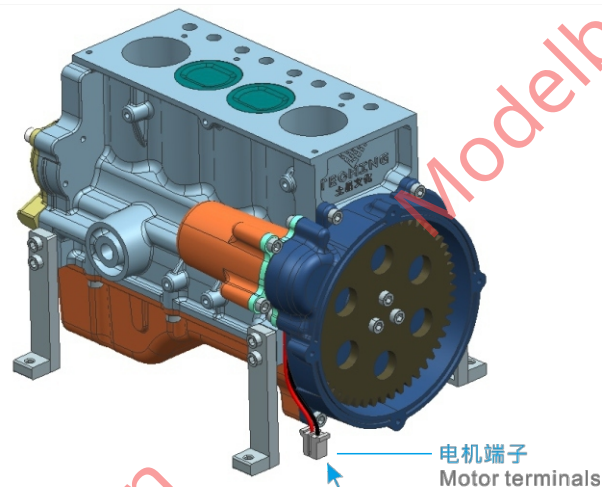
7.5 s 1@ - Monteer de vliegwielsehuizing



7.6 @ IN -Montage van vliegwiel



7.7 @@;*.II -Elektrische test



步骤:

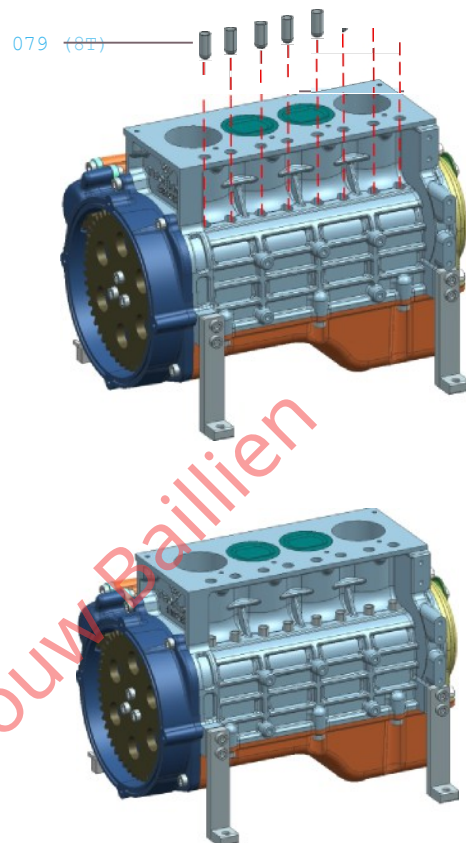
- 1.连接电机与底座端子
- 2.启动开关，观察电机及各组运转是否正常

Stappen:

1. Sluit de motor en de basisaansluiting aan
2. Zet de schakelaar aan en kijk of de motor en elke groep normaal werken

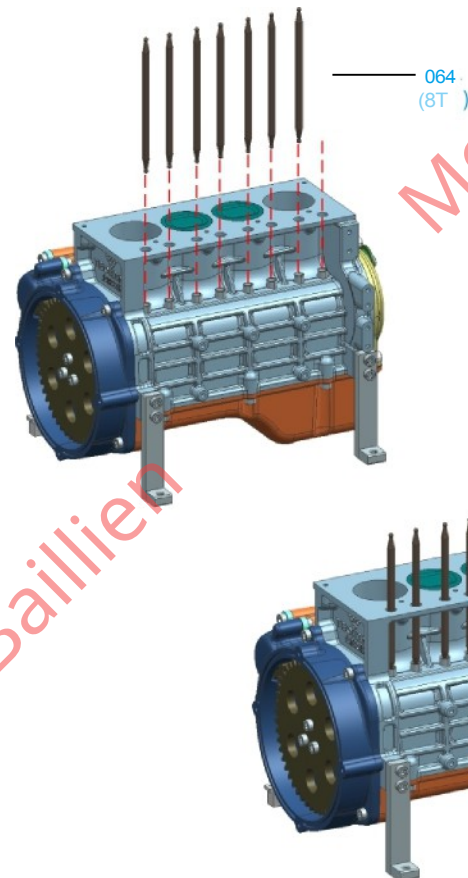
7.8 7.8

-Montage van de huls van de
uitwerpsstang

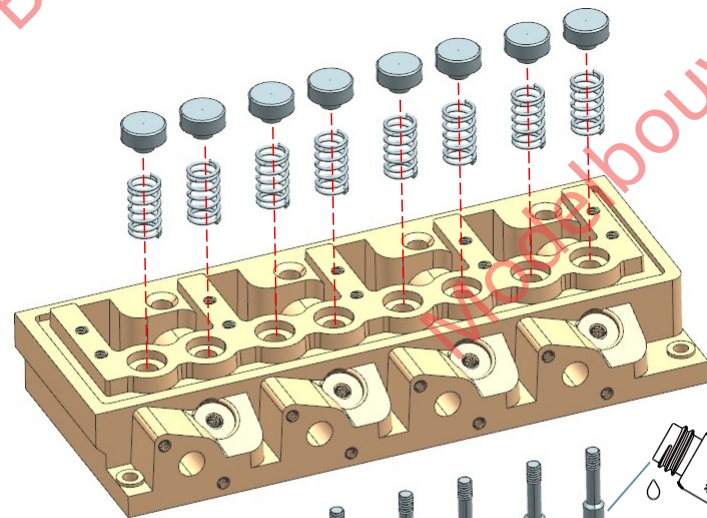
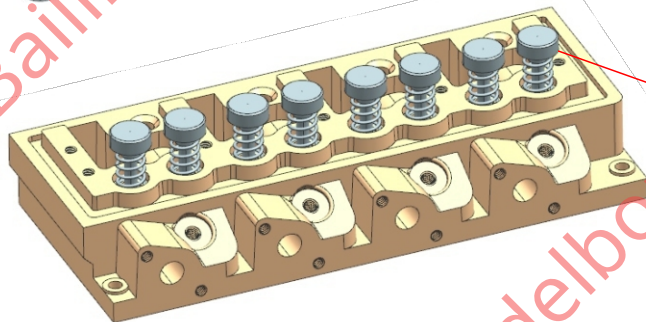
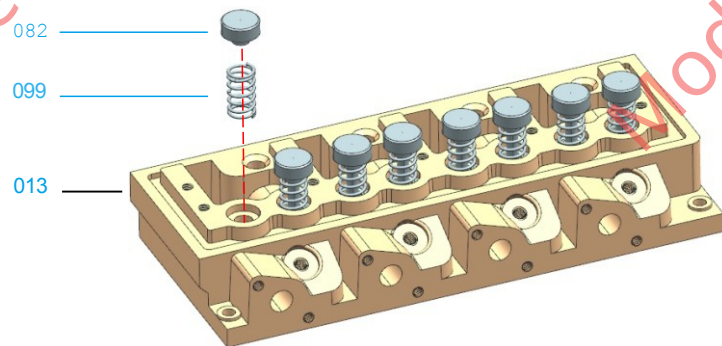


7.9 7.9

-Uitwerperpen monteren



8. @ U , . - Monteer de cilinderkop



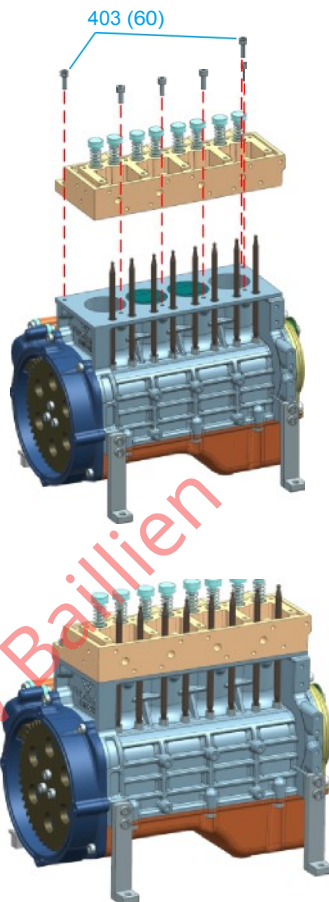
检查: 按压气门是否回弹, 如果回弹异常, 请检查缸头气门孔是否有异物。

Controle: Druk op de klep om te controleren of deze terugveert.
Als dit niet het geval is, controleer dan of er vreemde voorwerpen in de klepopening van de cilinderkop zitten.

9. @ \$! . . -Aansluiting cilinderkop

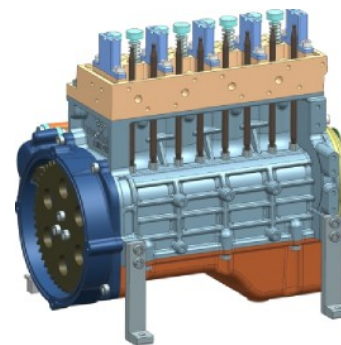
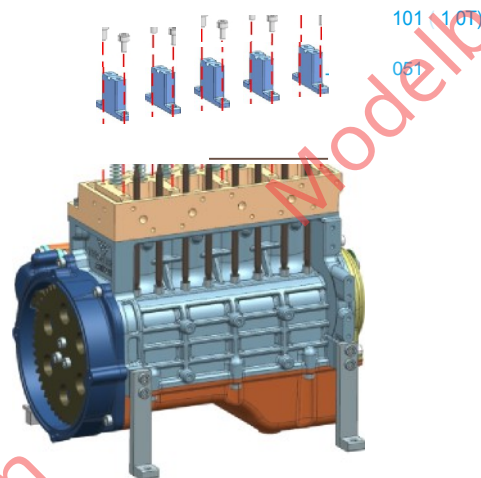
9.1 @ U .

-Cilinderkop monteren



9.1 @ " & DC +

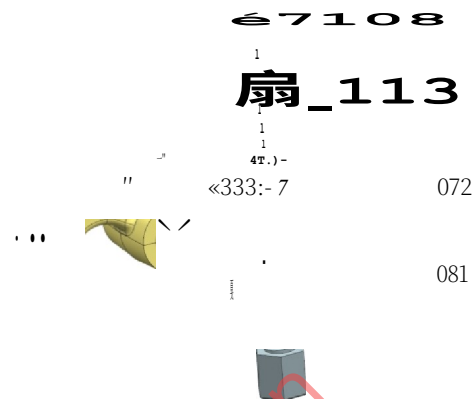
-Montage van de tuimelaarsteun



10. Montage van de tuimelaar-ASSEMB_e de tuimelaarconstructie

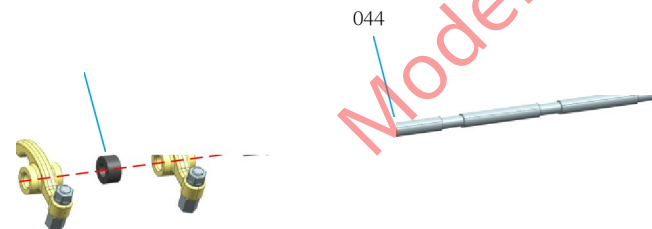
10.1 Montage van de tuimelaar

- Montage van de tuimelaar



10.2 Montage van de tuimelas

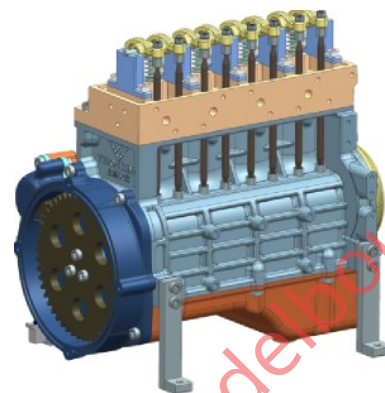
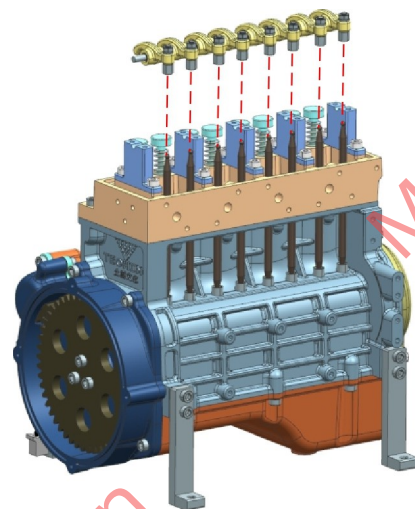
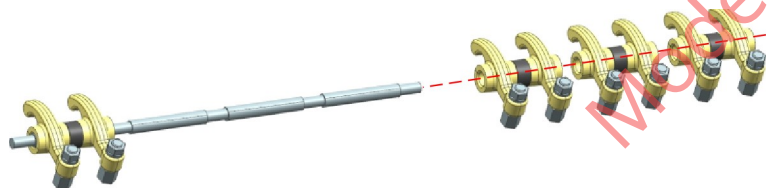
- Monteer de tuimelas



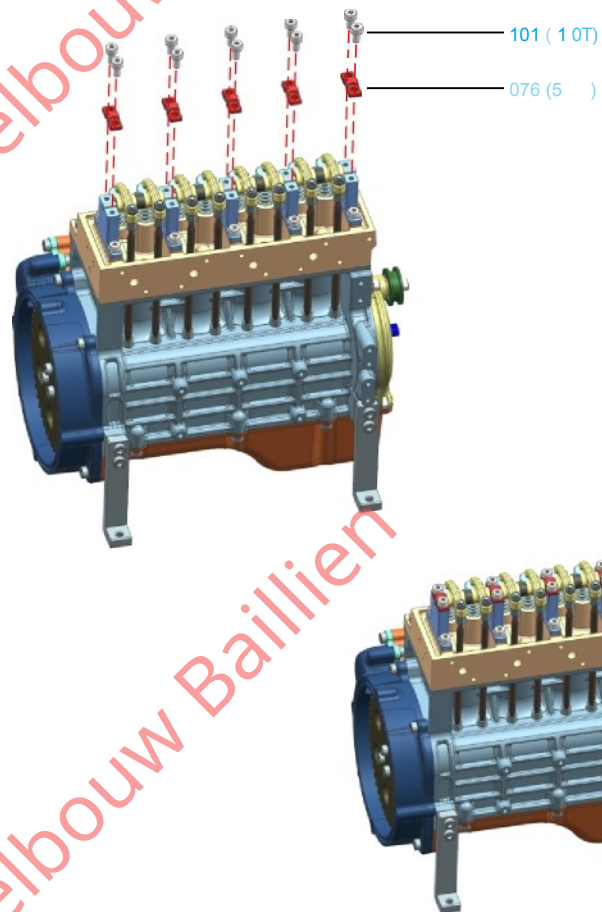
Rond, schraal, streng, schraal, donderend, schraal, lachend, lachend, zinderend, schraal,
zinderend, schraal, donderend

10.* = ^A\$g=s

- Monteer de tuimelas

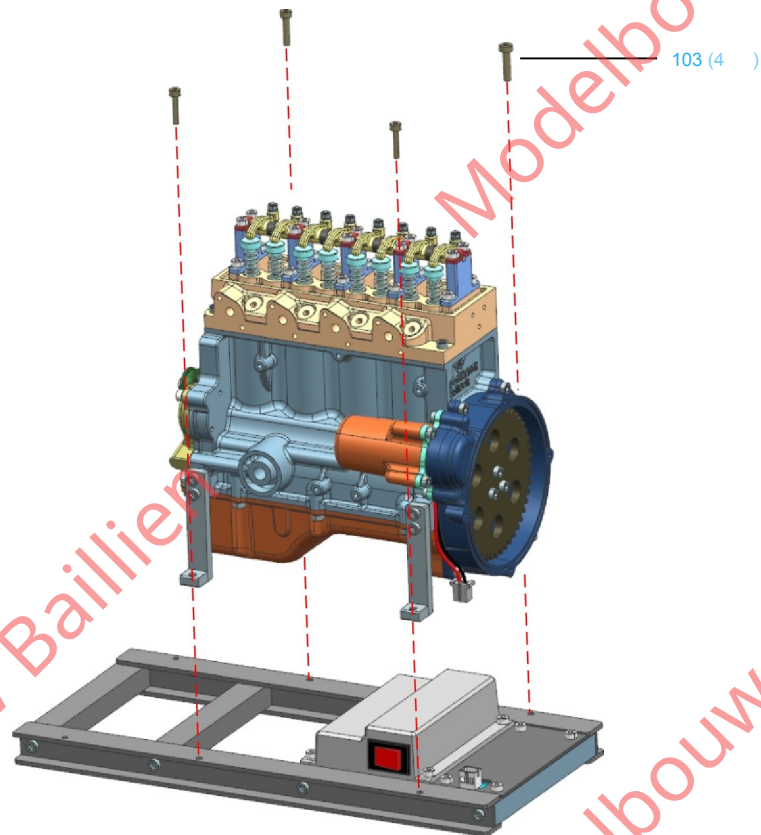


10.4 @ ^@\$gE
-De tuimelaarlagerbus monteren



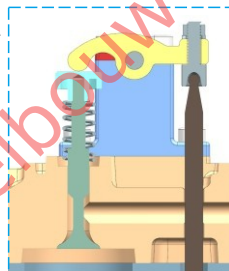
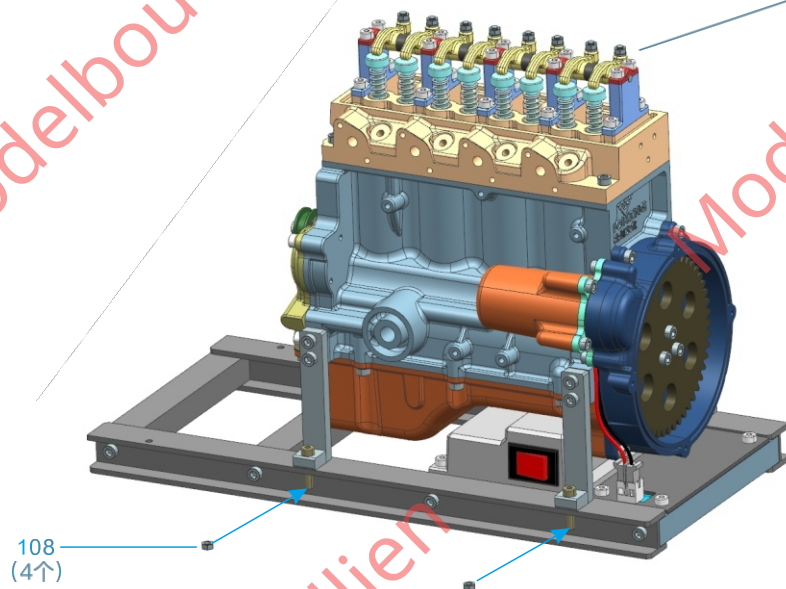
11. @ Ce/2. • E-Monteer de basisconstructie

11.1 @ @1J
-Montage van de basisassemblage

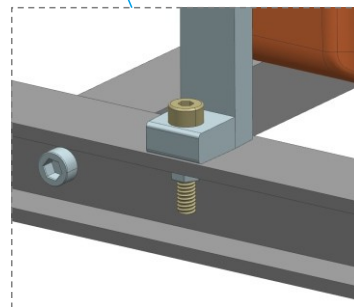
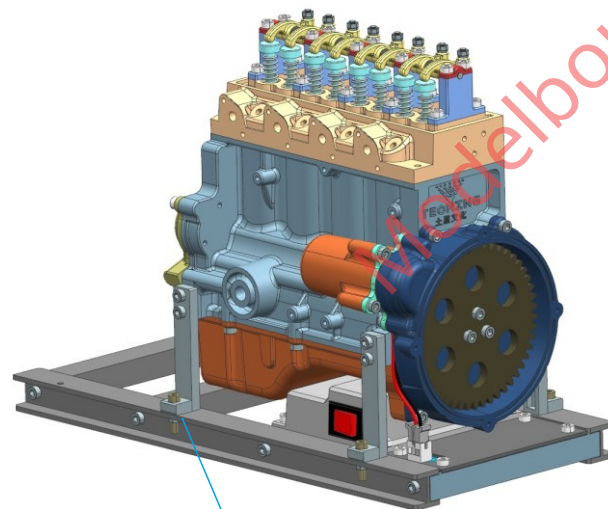


11.2 组装底座组件螺栓

-Assemble the base assembly bolts



剖视图
Cutaway view



(局部放大图)
Partial enlarged view

通电测试:

接入电源, 观察缸头摇臂摆动是否正常, 如果异常, 请排除以下故障:

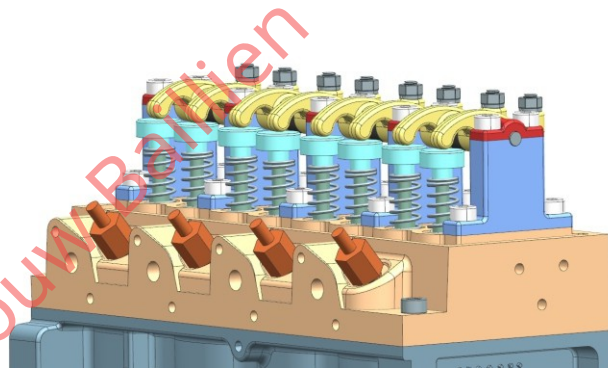
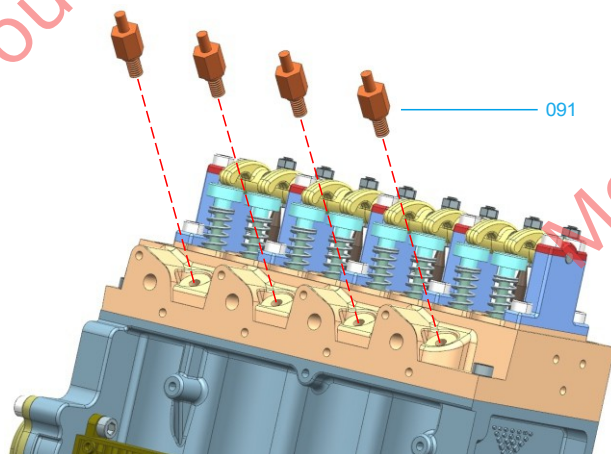
- 1) 零件装配不正确;
- 2) 电池没有充好电。

Power on test:

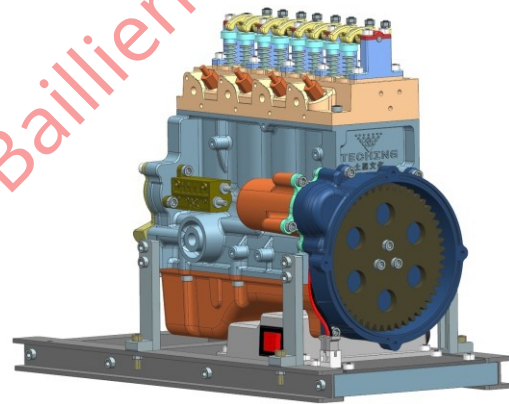
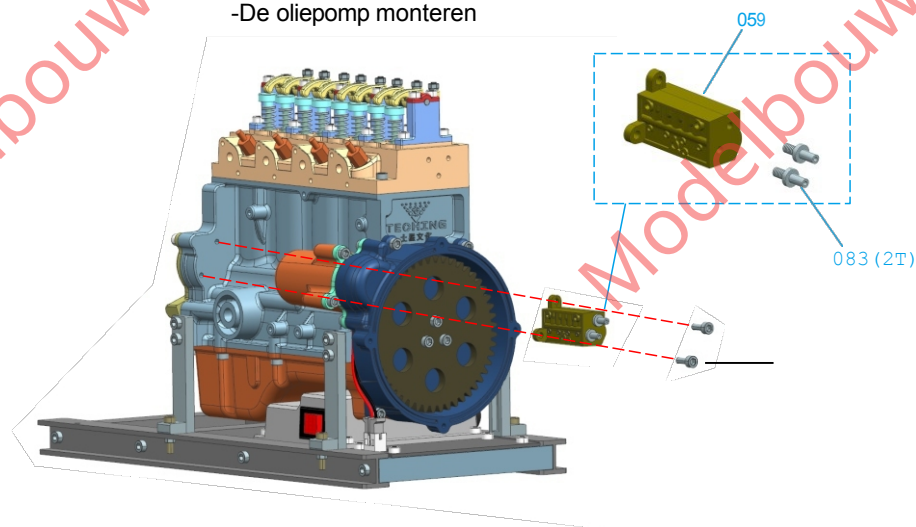
Connect the power supply and observe whether the cylinder head rocker arm swings normally. If it is abnormal, please eliminate the following faults:

- 1) Incorrect assembly of parts;
- 2) The battery is not fully charged.

11.3 @ ,III @ -De spuitmond monteren

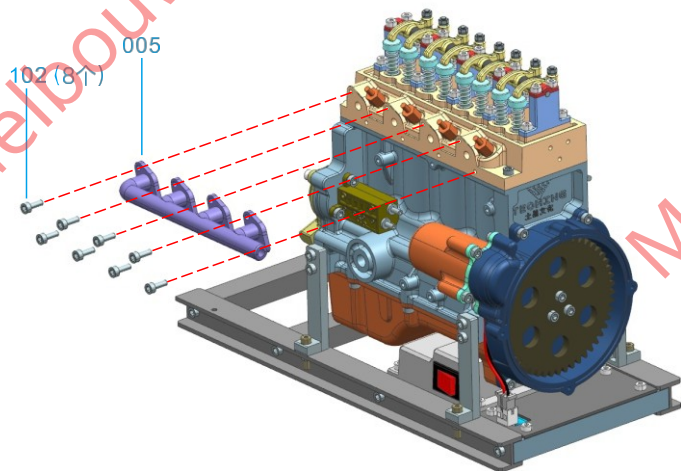


11.4 @ ;III @ -De oliepompe monteren



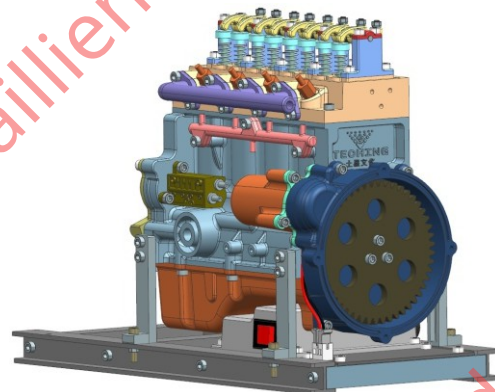
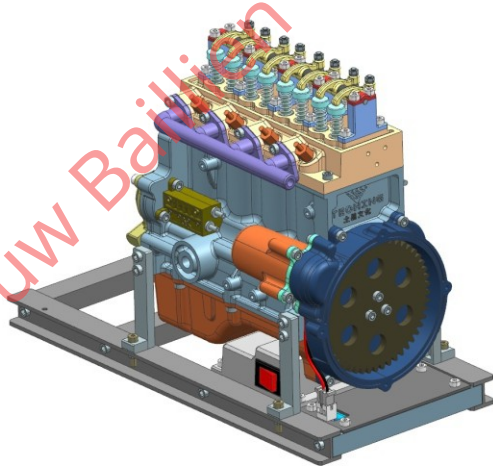
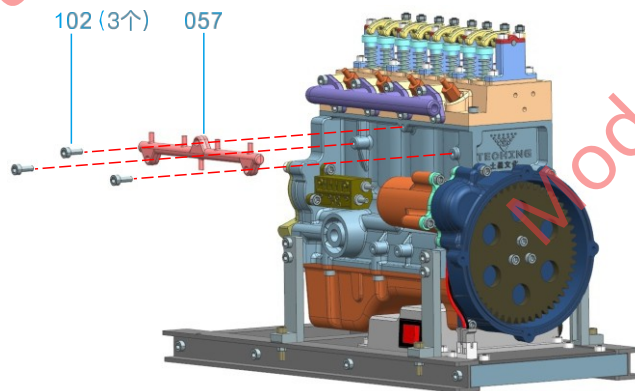
11.5 组装进气支管

-Assemble the intake branch pipe

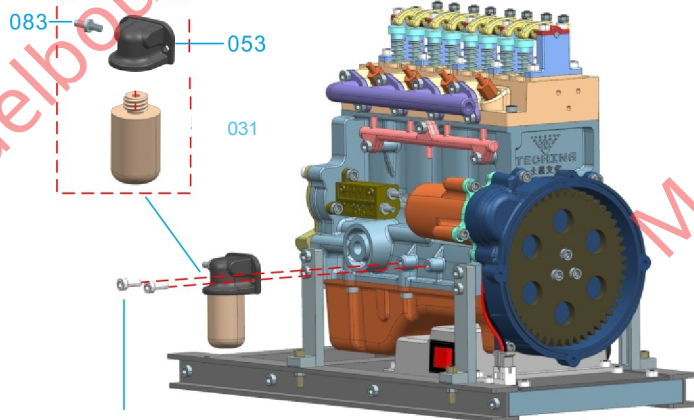


11.6 组装共轨管

-Assembly of common rail pipe

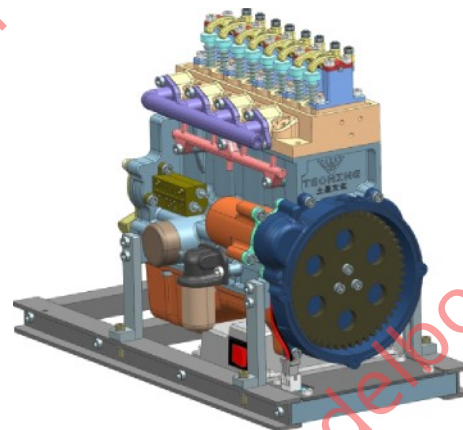
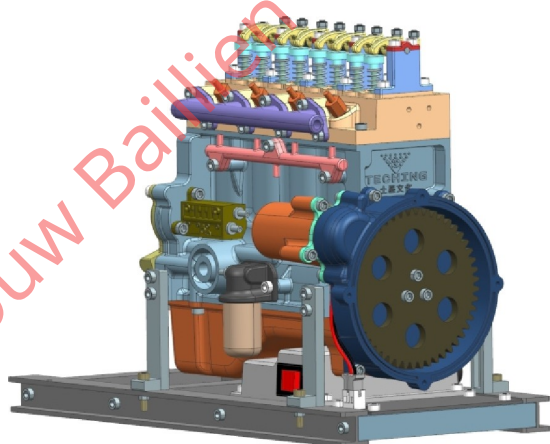
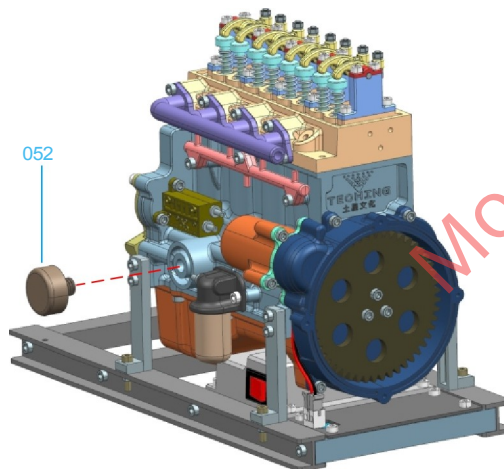


11.7 @ :ll @
- Monteer het filterelement van de
oliepomp

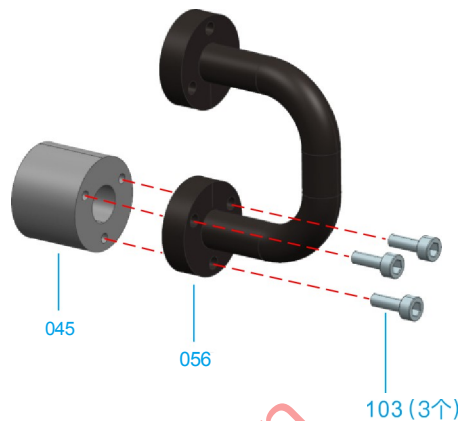


102 (2T)

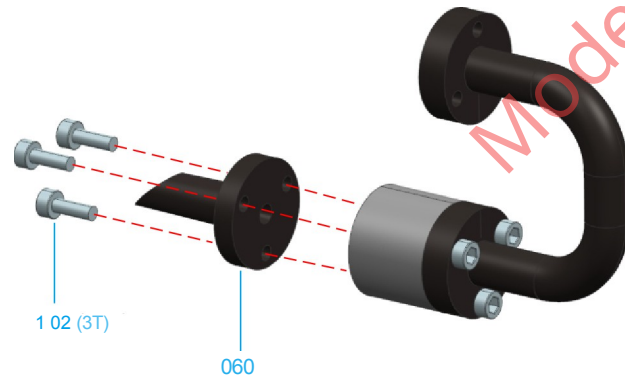
11.8 @ A @
- Oliefilter monteren



12. ① ② ③ - Monteer de uitlaatpijp
 12.1 ④ ⑤ ⑥ - Monteer de uitlaatpijp en de geluiddemper

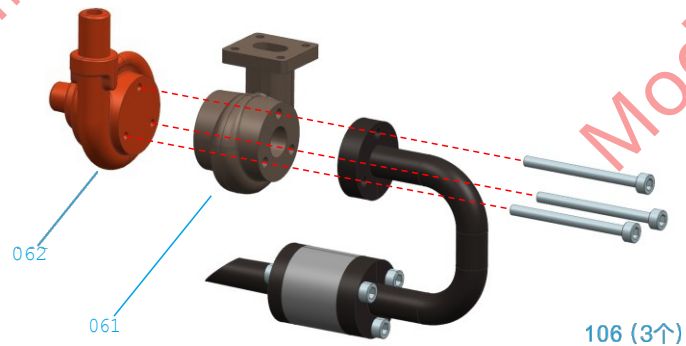


- 12.2 ⑦ ⑧ ⑨ - Montage uitlaatpijp



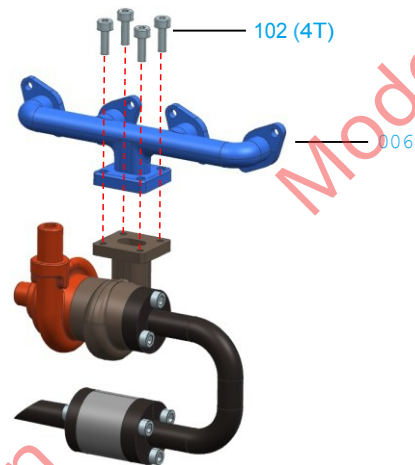
12.3 @ ,& tg/E—filJf %

-Monteer de turbocompressor en de uitlaatpijp



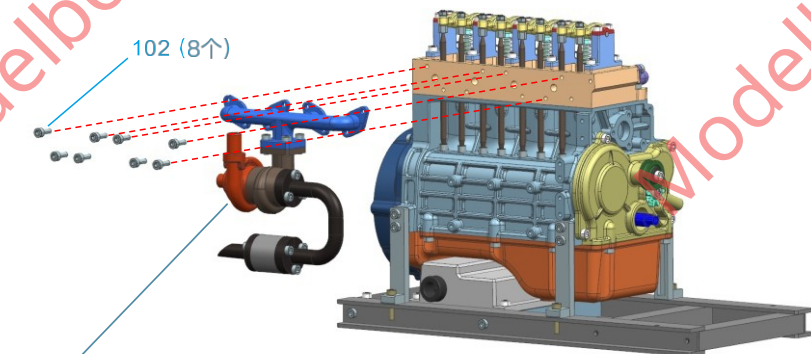
12.4 @ }1t D %

- Monteer het uitlaatspruitstuk



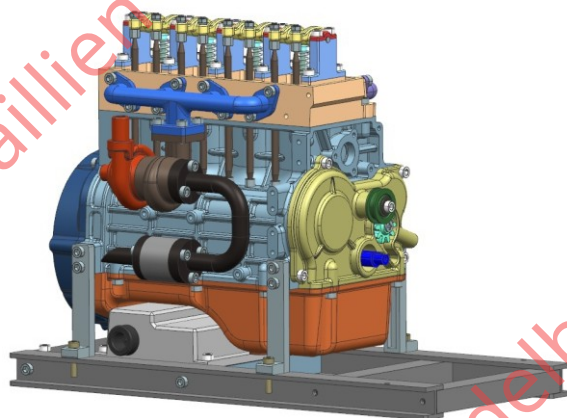
12.5 组装排气管总成

-Assemble the exhaust pipe assembly



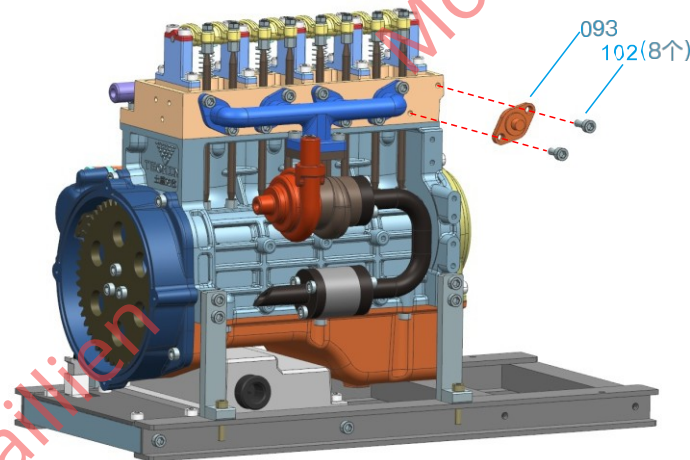
102 (8个)

排气管总成
Exhaust pipe assembly



12.6 组装水箱管接口

-Assembly of water tank pipe connection port

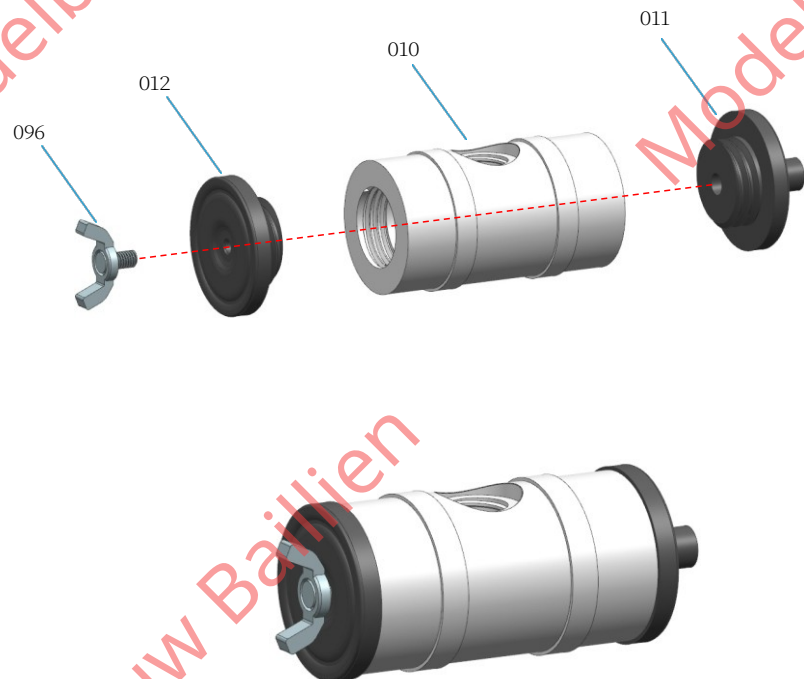


093
102(8个)

13. Montage luchtfilterelement

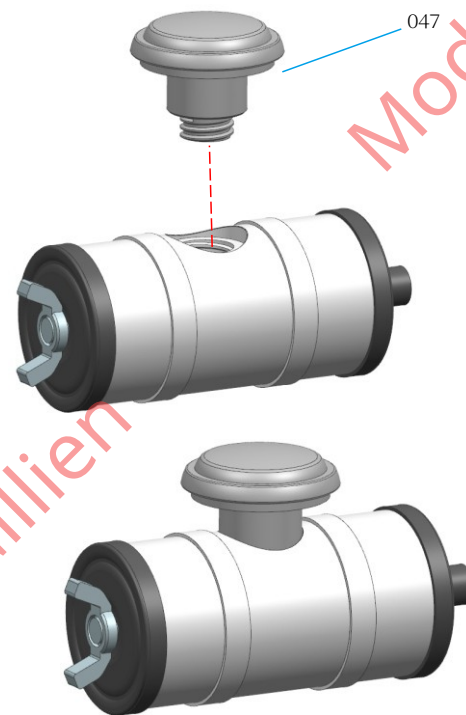
13.1 Montage van de eindkap van het luchtfilter

- Monteer de eindkap van het luchtfilter



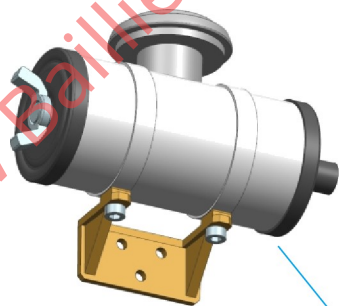
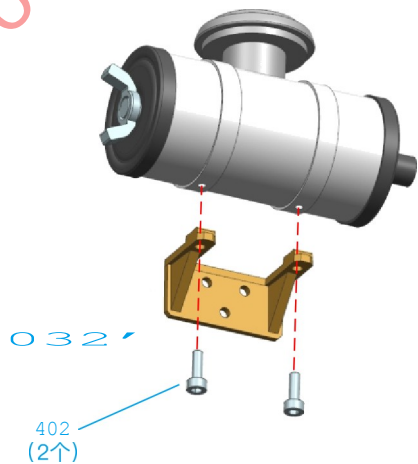
13.2 Montage van de uitlaatdemper

- Monteer de inlaat **COVGI**



13.3 @ IID@

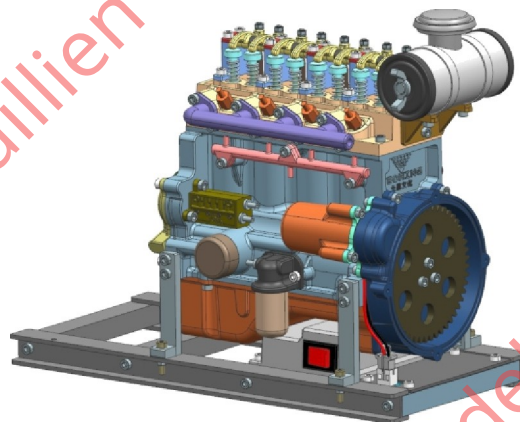
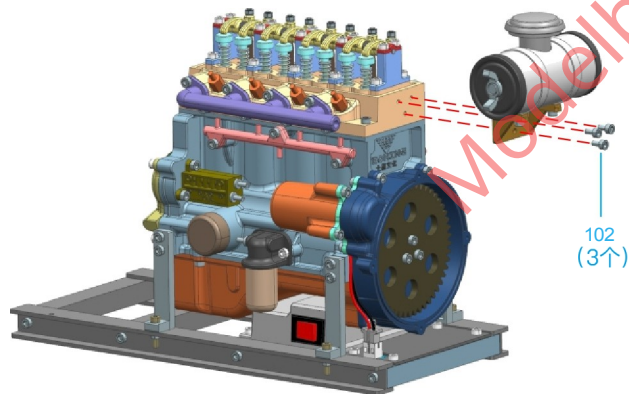
-Monteer de luchtfilterbeugel



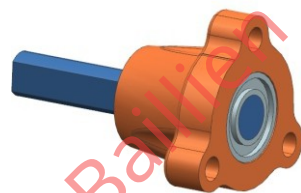
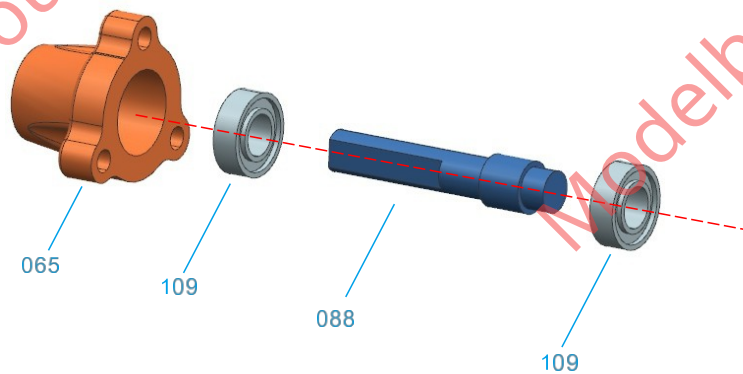
空气滤清总成
Luchtfilter a sse mbl y

13.4 } If@@°

-Sluit de luchtfilterunit aan

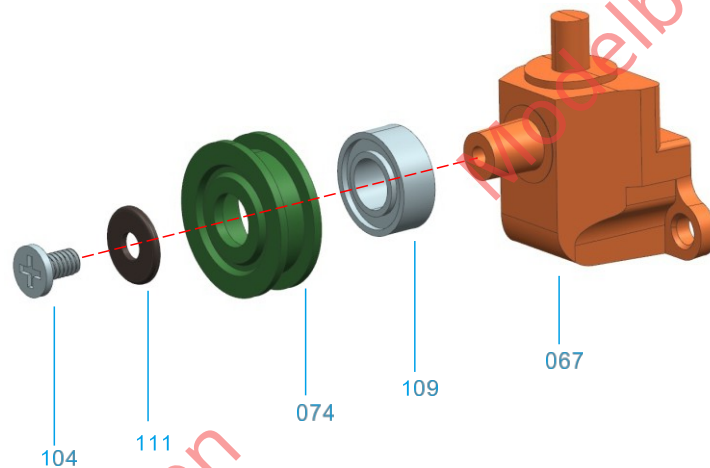


14. 组装风扇座组件-Assemble fan base assembly



风扇座组件
Fan base assembly

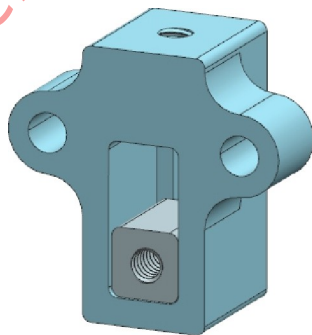
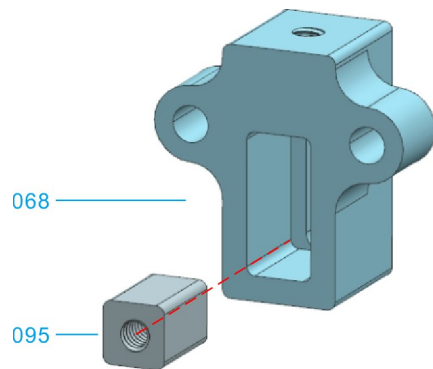
15. 组装水泵组件-Assemble the water pump assembly



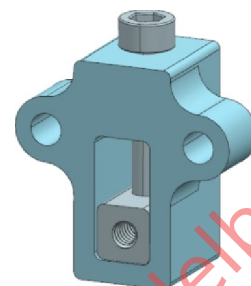
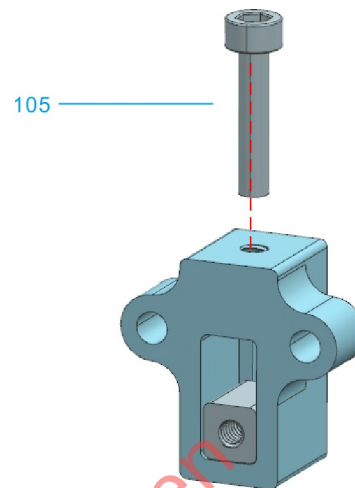
水泵组件
Water pump assembly

16. @ 1x% @T/ - Monteer de spanwielunit

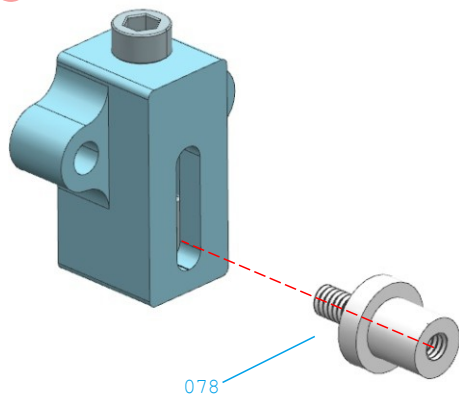
16.1 @ Jñ f@t&
- Monteer de span-schuif



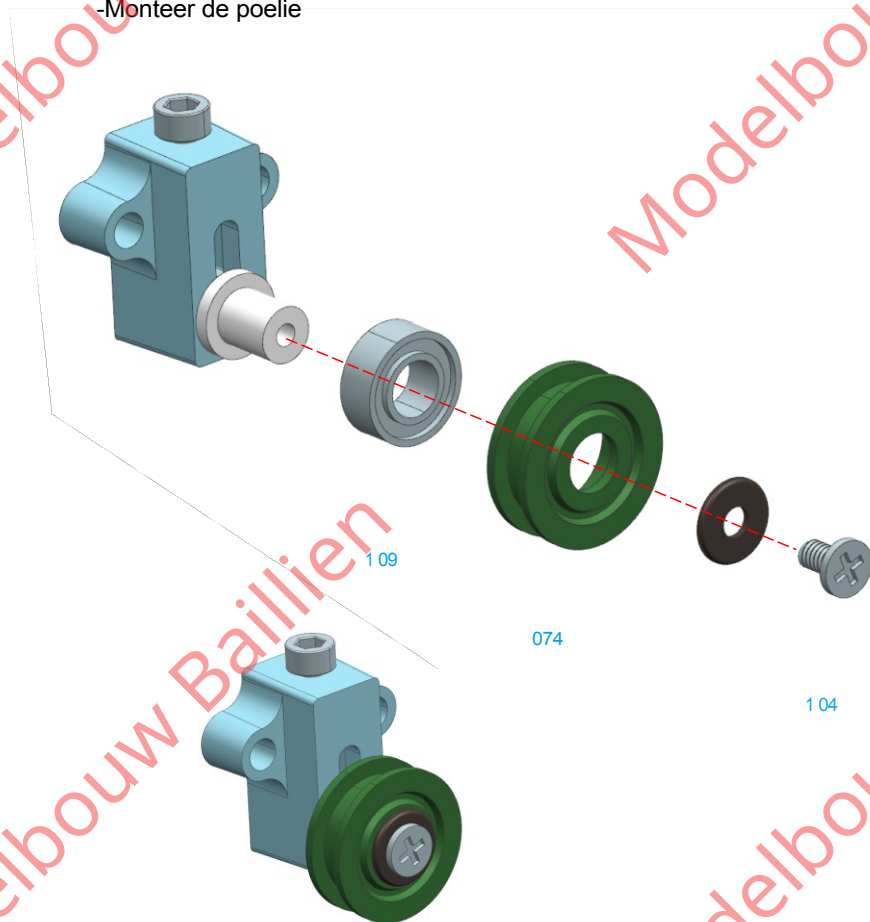
16.2 @ 1x 82
-Monteer de spanbout



16.3 @ \$g
-Monteer de span-as

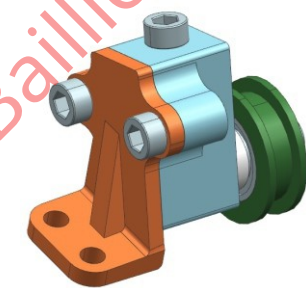
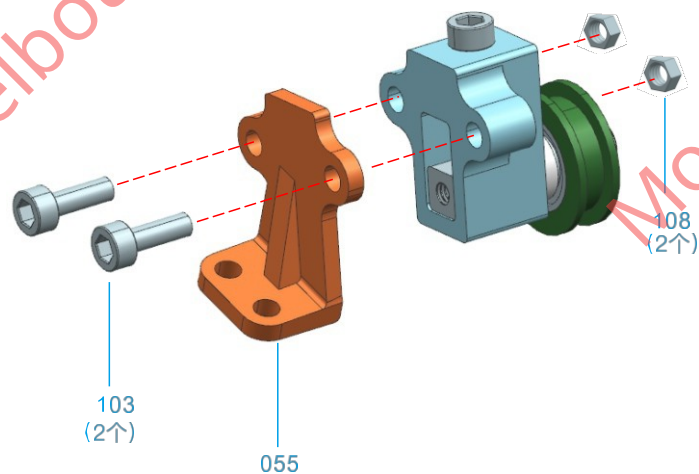


16.4 @ &
-Monteer de poelie



16.5 组装发电机

-Assemble the tensioner bracket

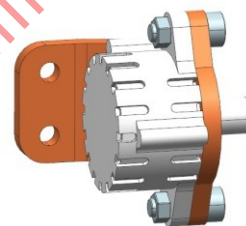
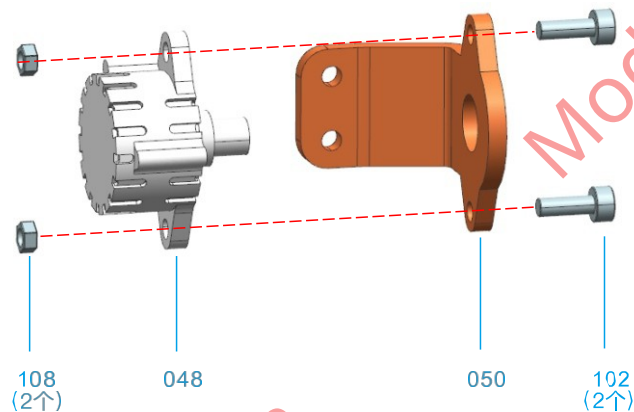


张紧轮总成
Tensioner assembly

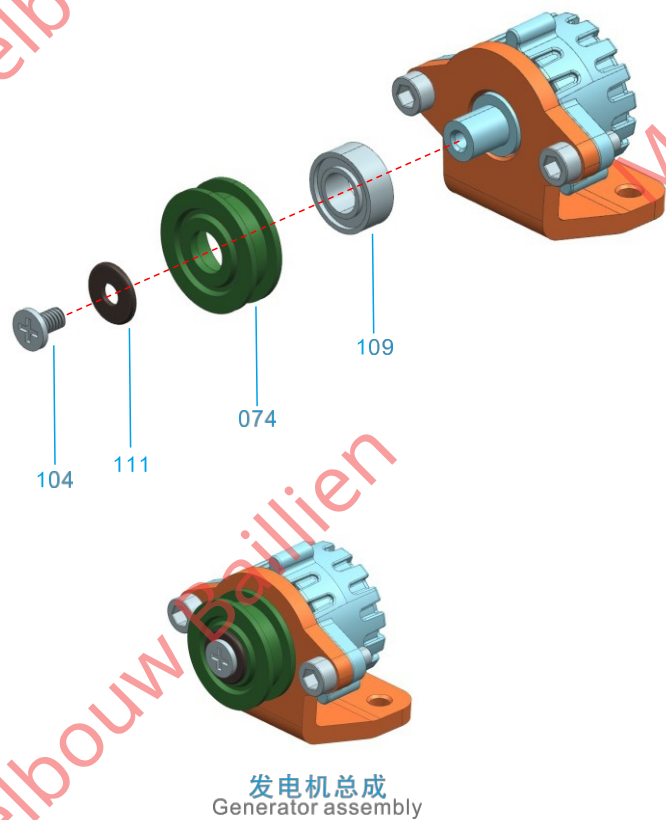
17. 组装发电机总成-Assemble the generator assembly

17.1 组装发电机与支架

-Assemble generator and bracket

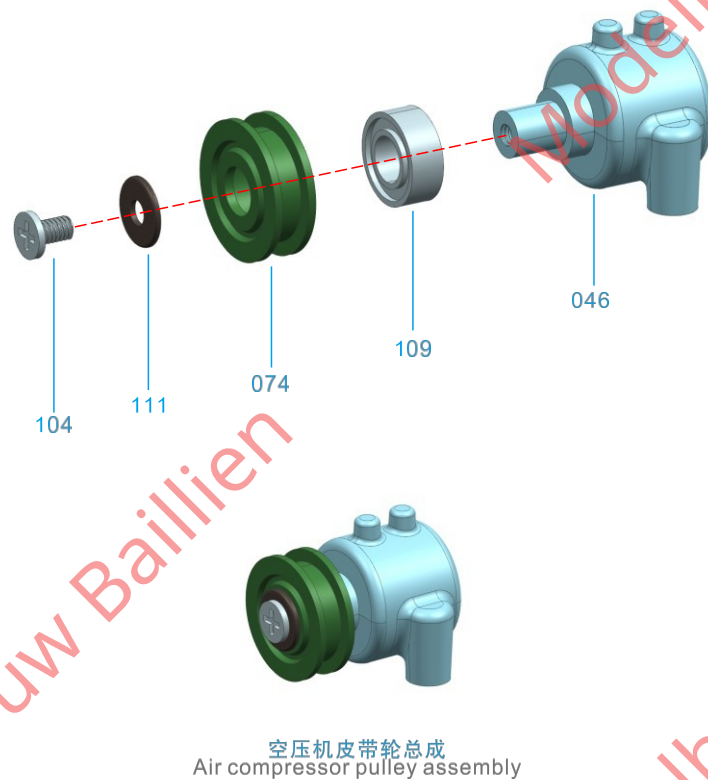


17.2 组装发电机
-Assembling the generator



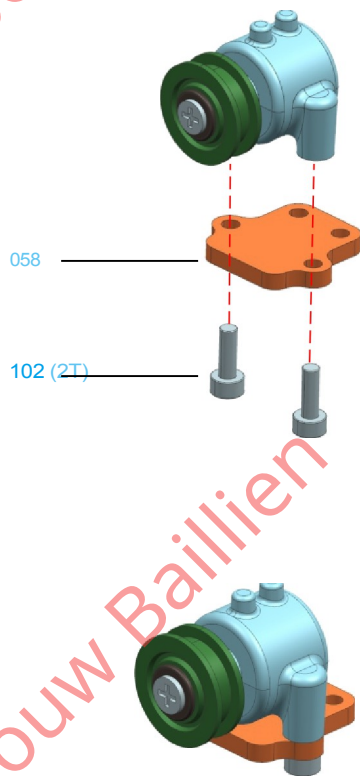
18. 组装空压机组件-Assemble the air compressor assembly

18.1 组装空压机皮带轮
-Assemble the air compressor pulley



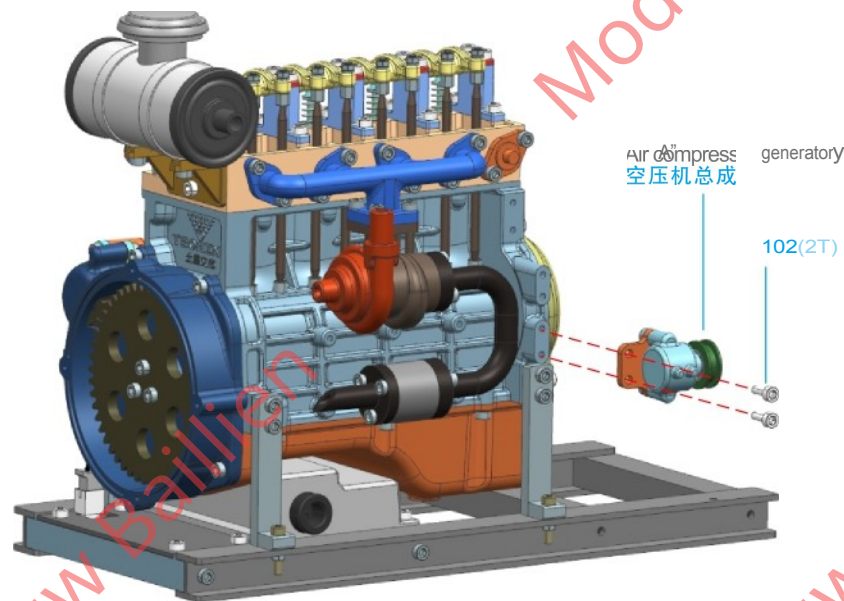
18.2 U TIE/tD@tB

- Monteer de steunplaat van de luchtcompressor

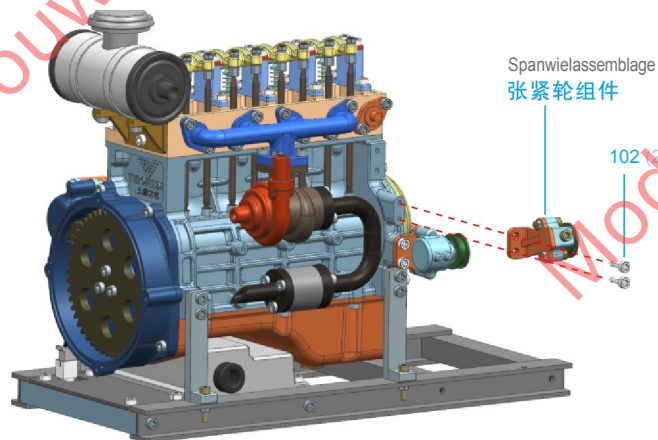


空压机总成
Luchtcompressorrassemblage

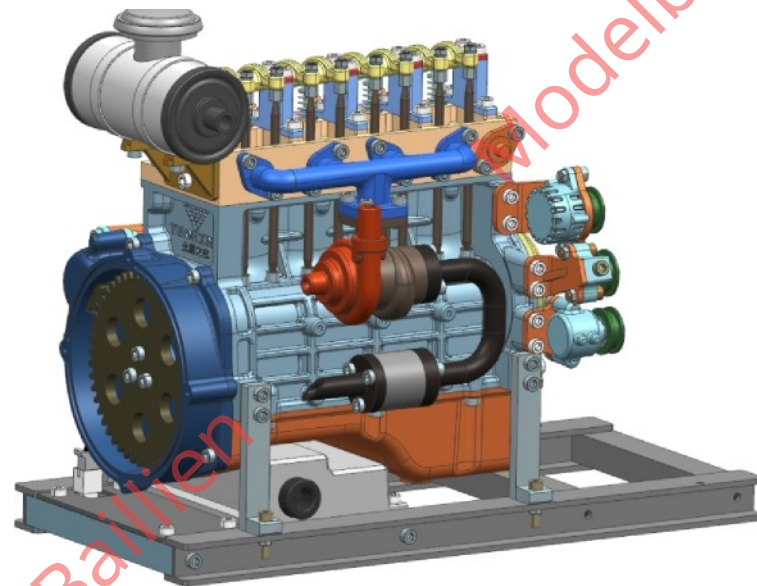
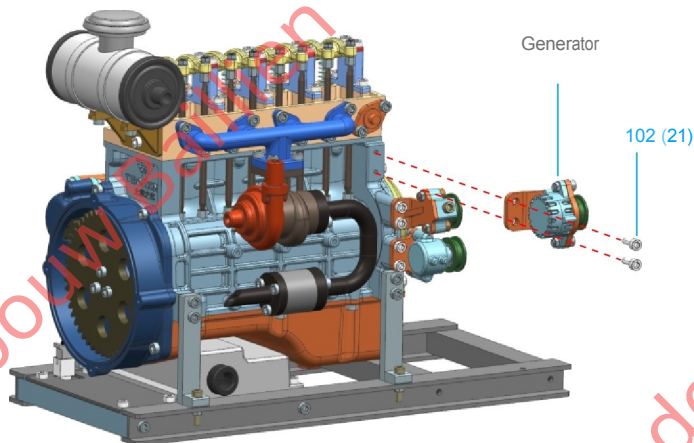
19. @@ Itt\$A@1¥ - Sluit de generatorassemblage aan



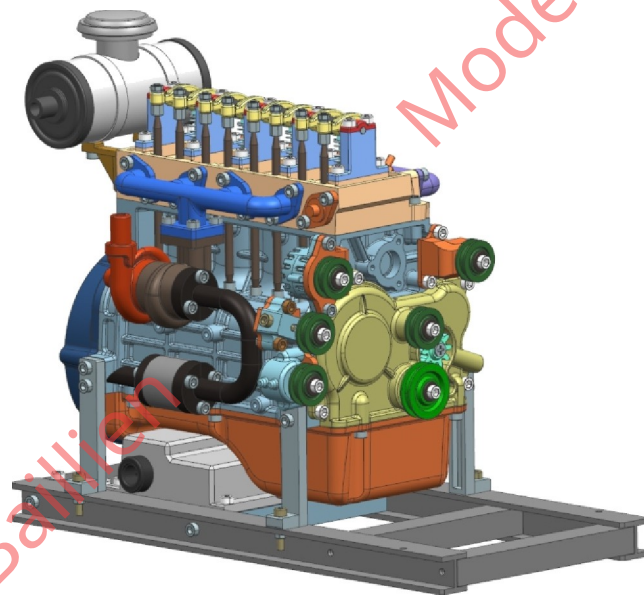
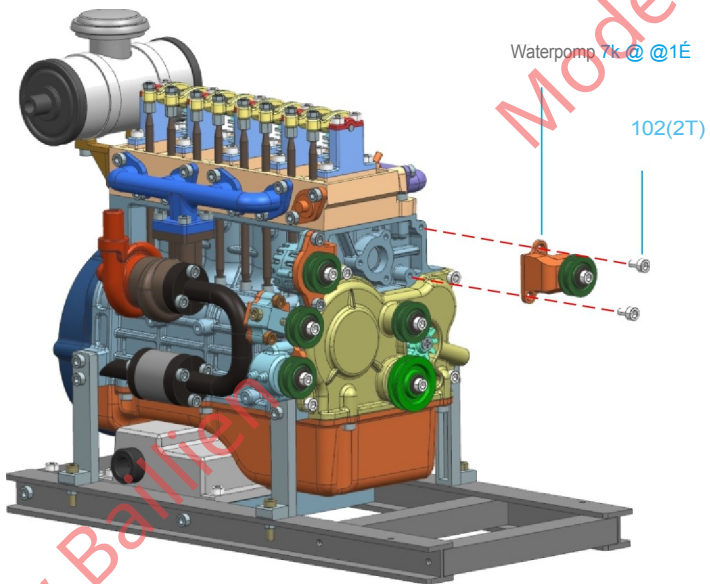
20. @@@&.fi? -Sluit de spanrol aan



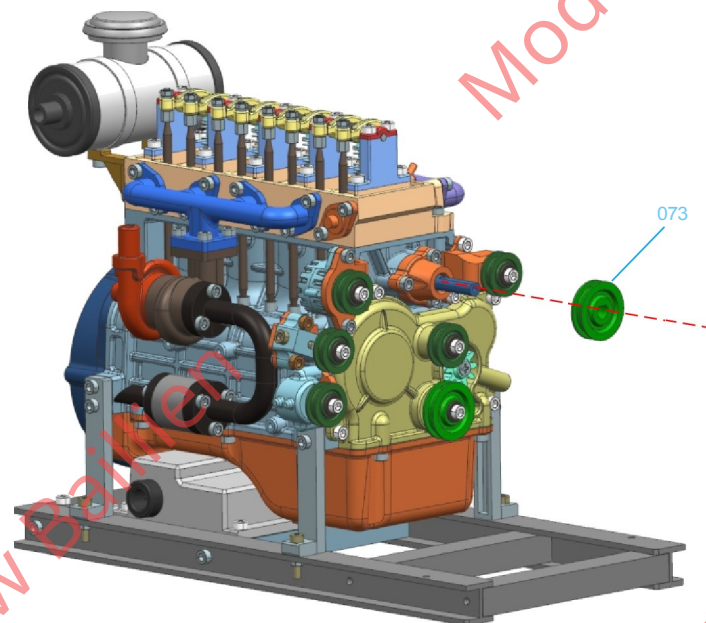
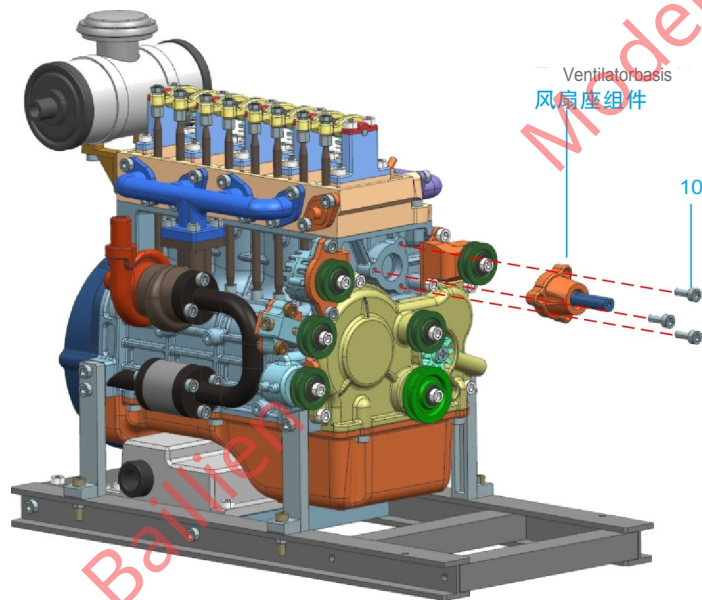
21. @@ USA. .lt -Sluit de generatorassemblage aan



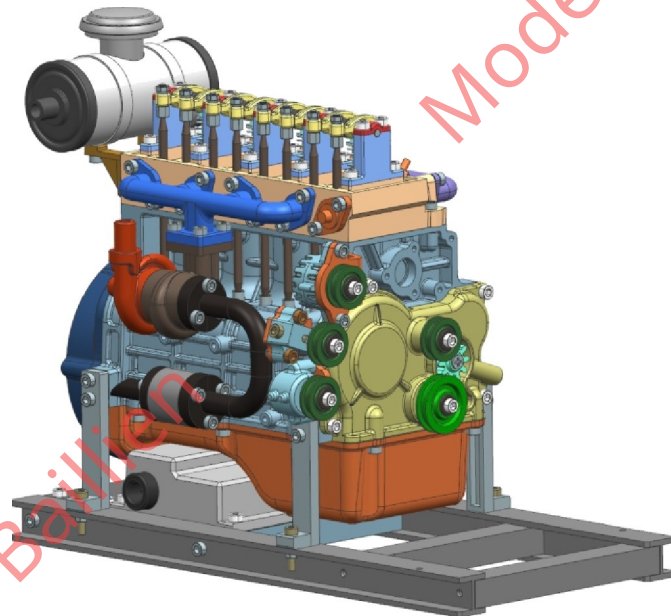
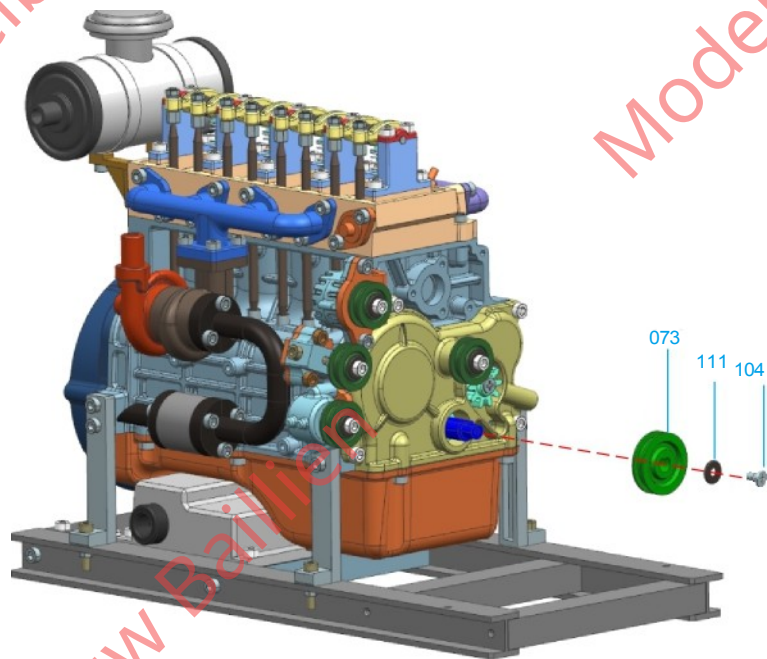
22. @ yk @@1\$ - Monteer de waterpomp



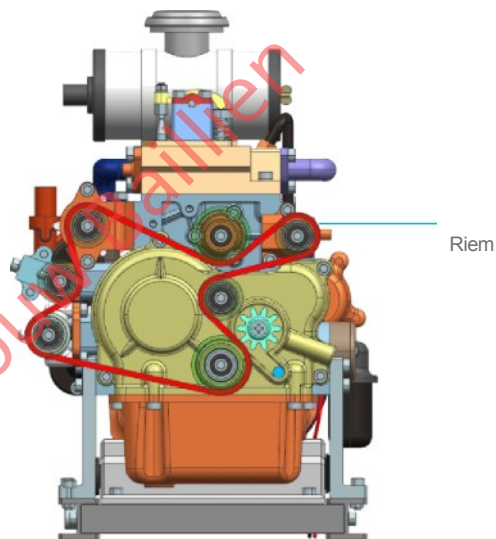
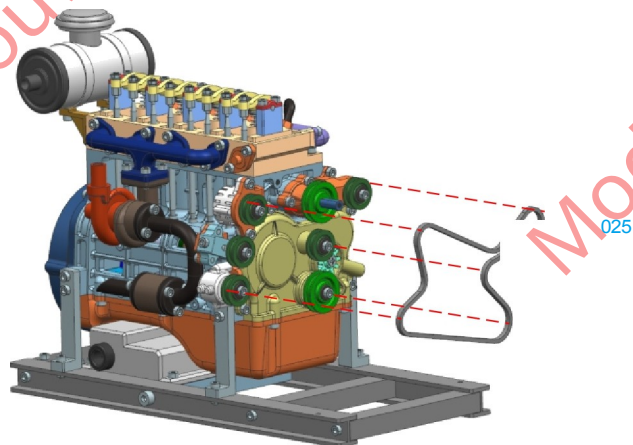
23. tŝi Nit@w Cx @1ŝ - Monteer de ventilatorbasis



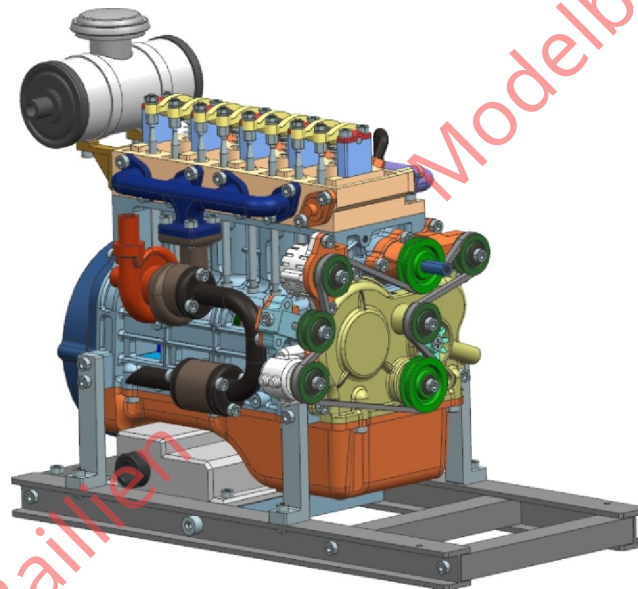
24. @ @ \$Eldı@@ -Montage van de krukaspoelie



25. @ Aw - Monteer de riem



26. :*1l11d@ @ -Controleer de werking van de poelie



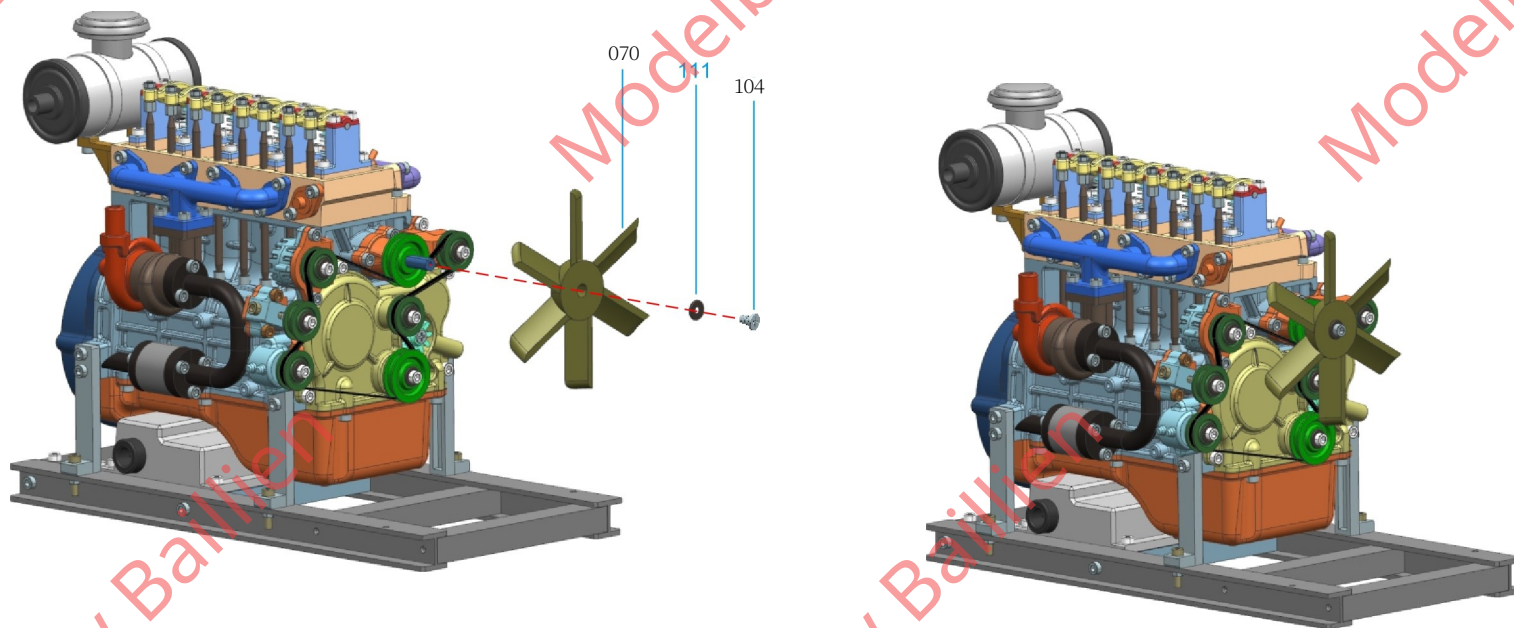
电动测试:

启动开关, 观察曲轴、凸轮轴、各皮带轮是否正常运转。

Elektrische test:

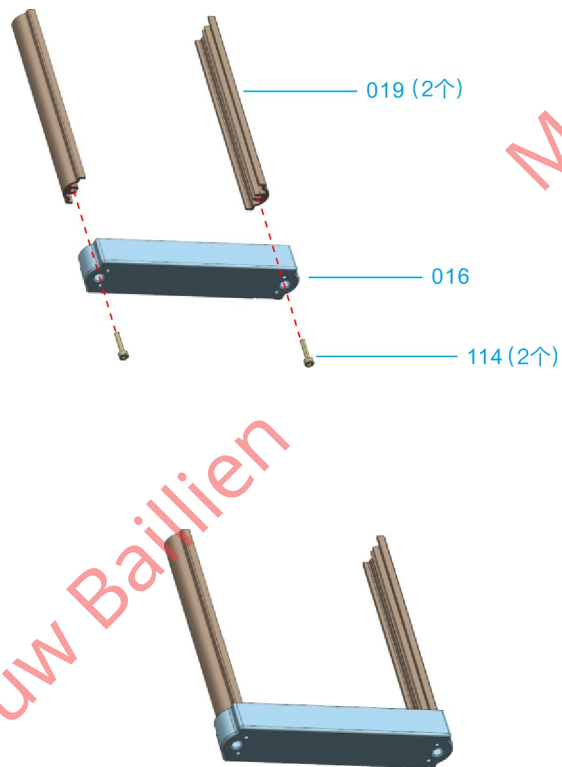
Zet de schakelaar aan en kijk of de krukas, de nokkenas en de riemschijf normaal werken.

27. Montage van de ventilator

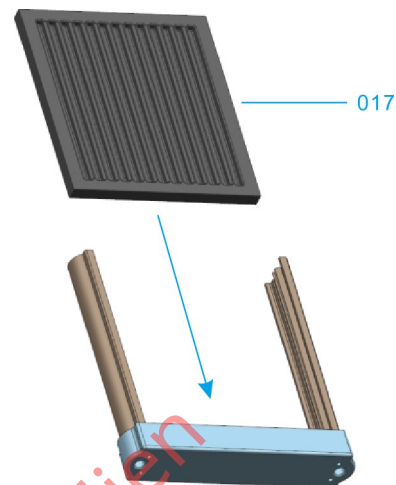


28. @ 7/ ,c• -Monteer de watertank

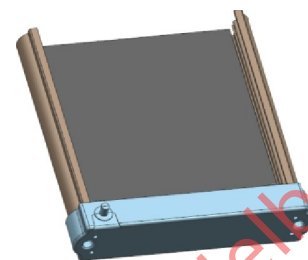
28.1 @ 7/
-Monteer de onderkant van de watertank



28.2 t\$† M @
- Monteer de condensor



Dit graan is naar buiten gericht

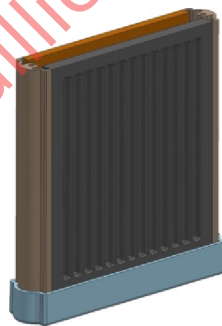


- 28.3 @ a@@
- Monteer de ventilatorafdekking

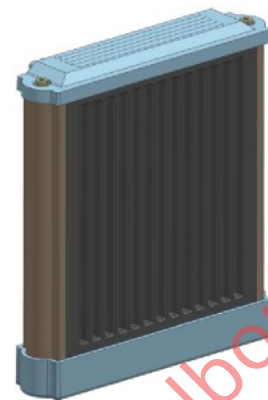
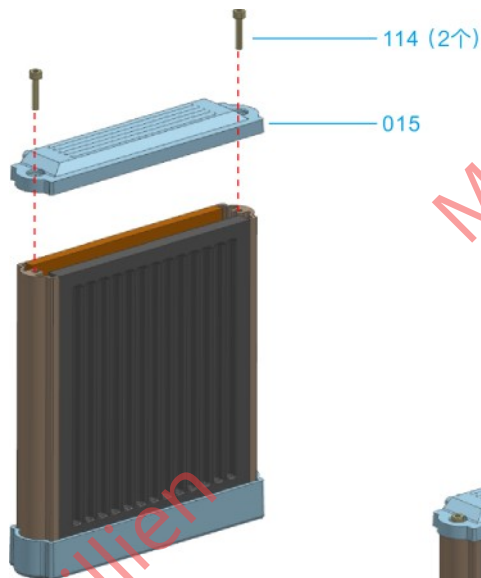
018

Deze kant is naar buiten gericht

Let op de afstand tussen de binnenrand van de cirkel en de boven- en onderrand



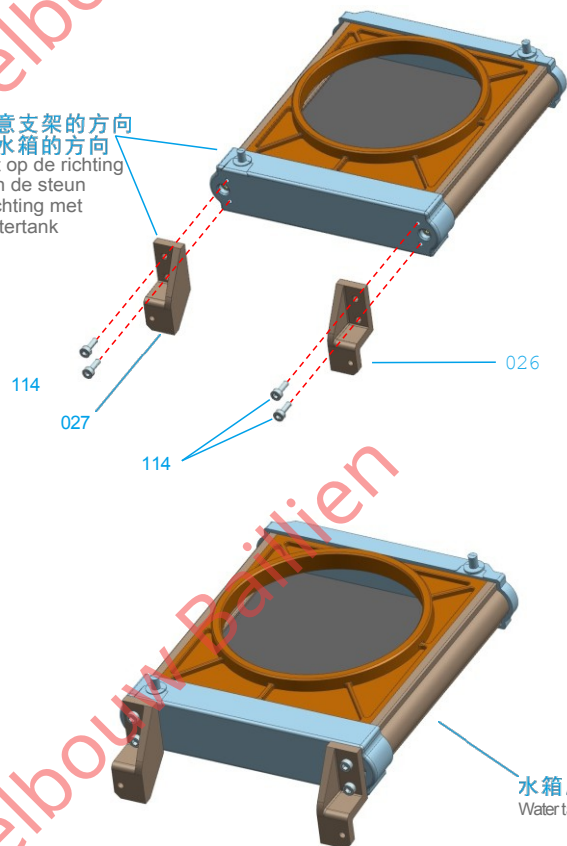
- 28.4 组装水箱顶盖
- Monteer de bovenklep van de watertank



28.5 Risico ifD

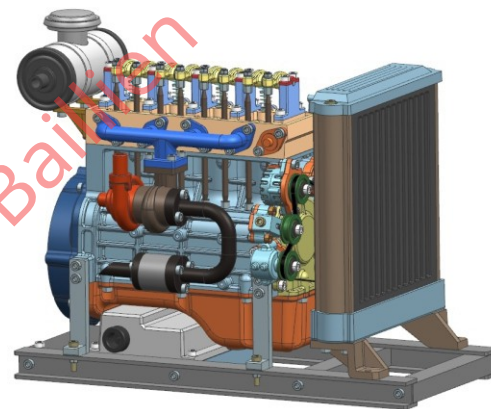
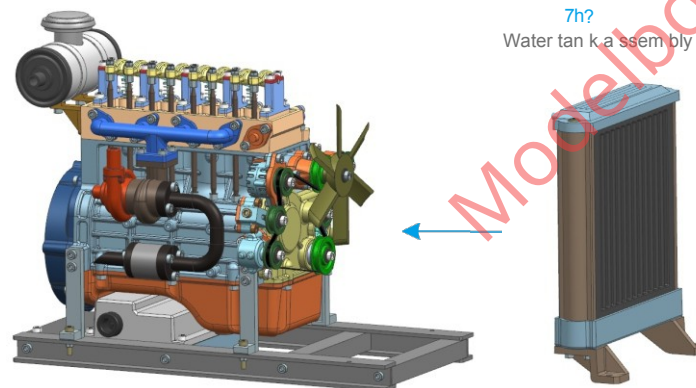
- Monteer de beugel van de watertank

注意支架的方向
与水箱的方向
Let op de richting
van de steun
Richting met
watertank



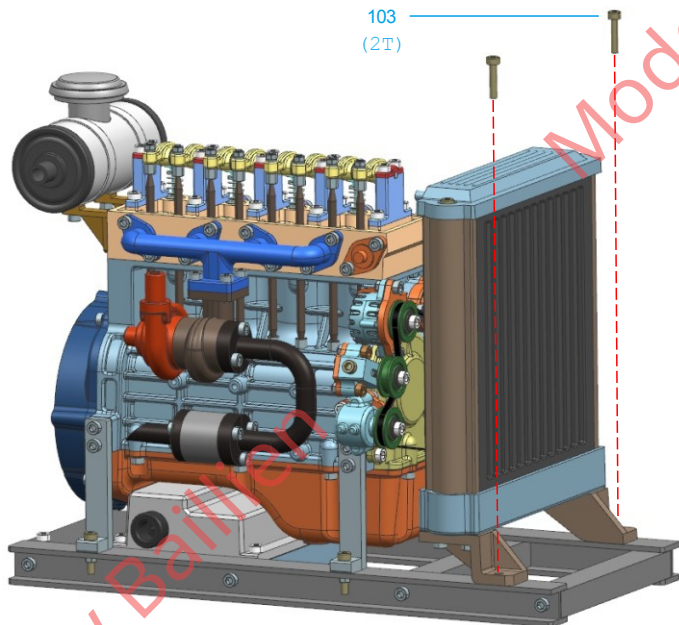
28.6 @yg\$ff, .

-Sluit de watertankconstructie aan

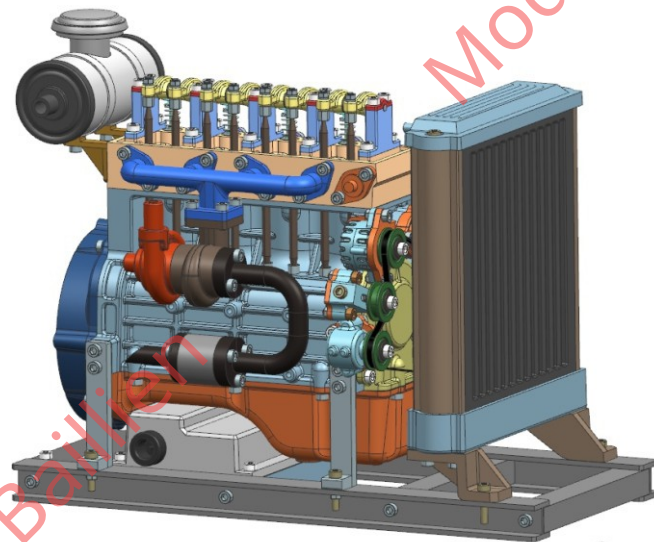


29. @ D@ - Monteer de beugelconstructie

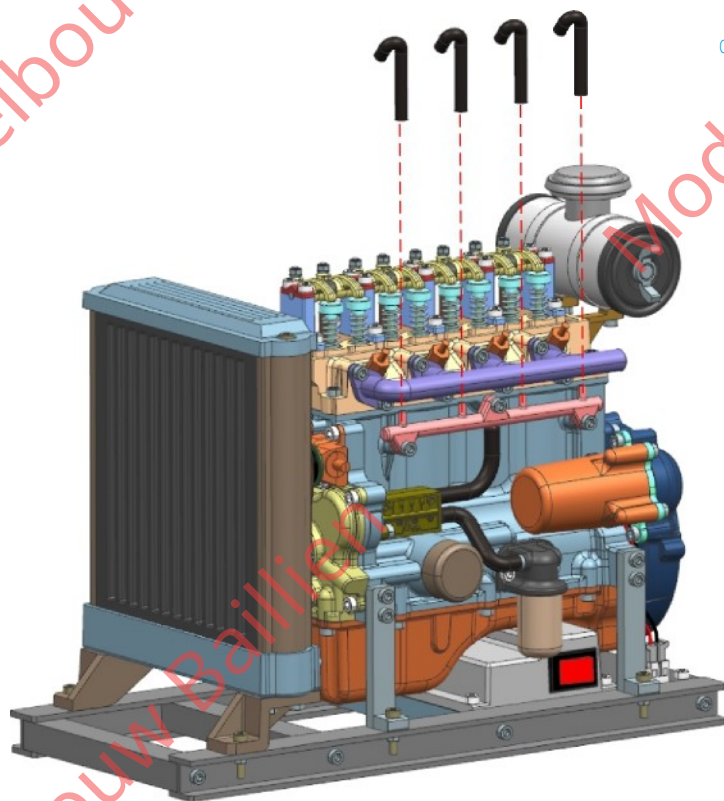
29.1 @ D GB.?
-Zet de beugelmoer vast



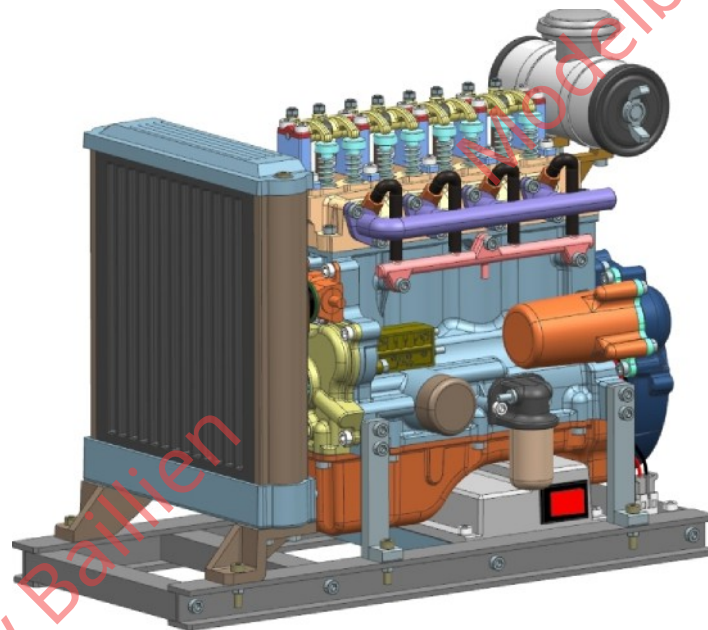
29.2 @ D GB.??
-Moer montagebeugel



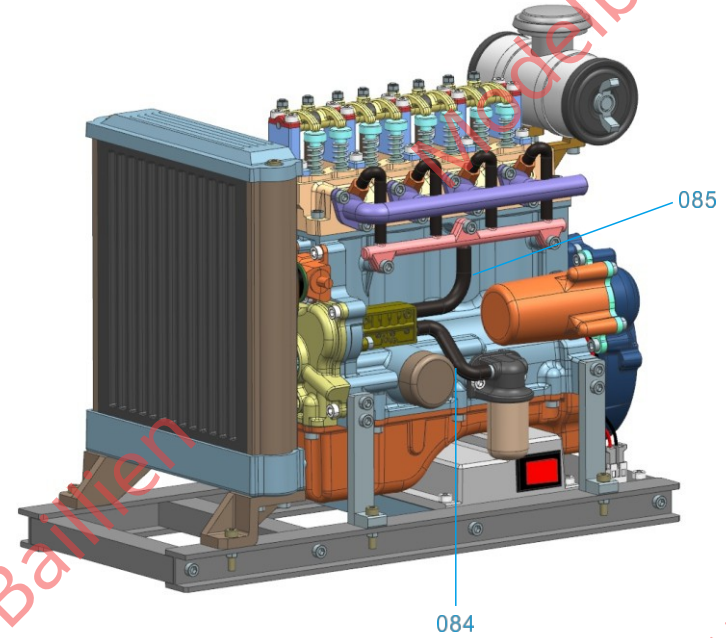
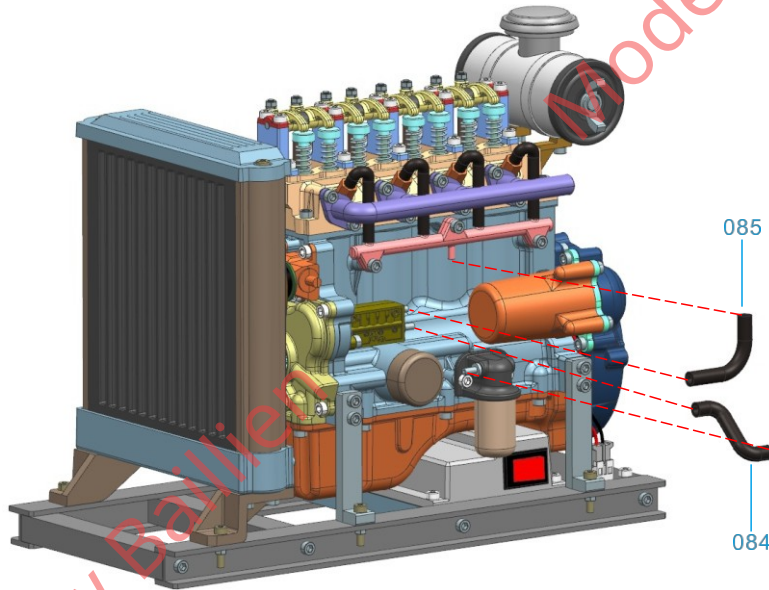
30. @ C: % -Oliedistributieleiding monteren



092

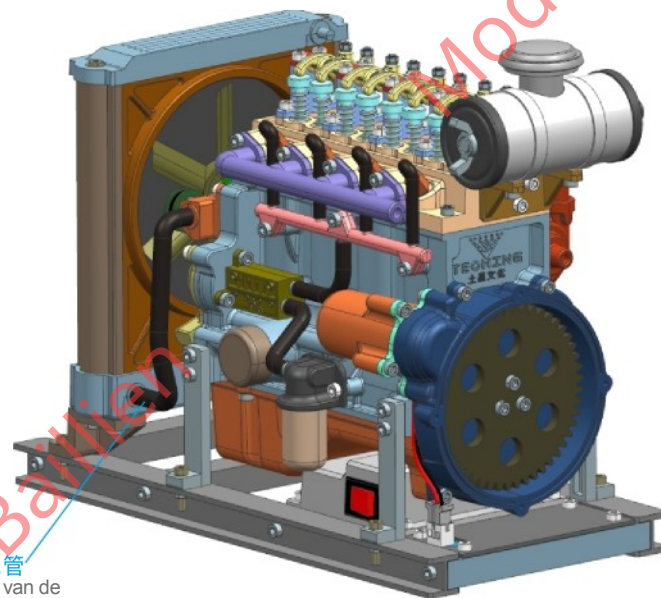
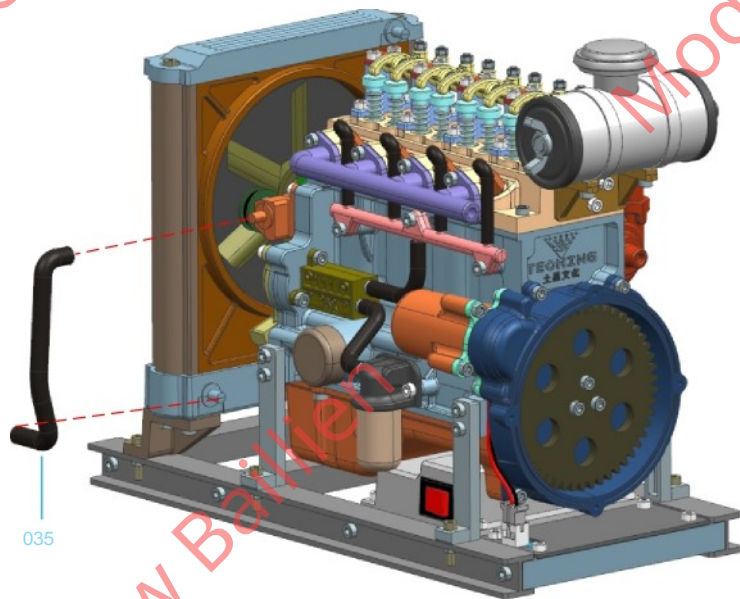


31. 组装油泵管 -Assembly of oil pump pipe



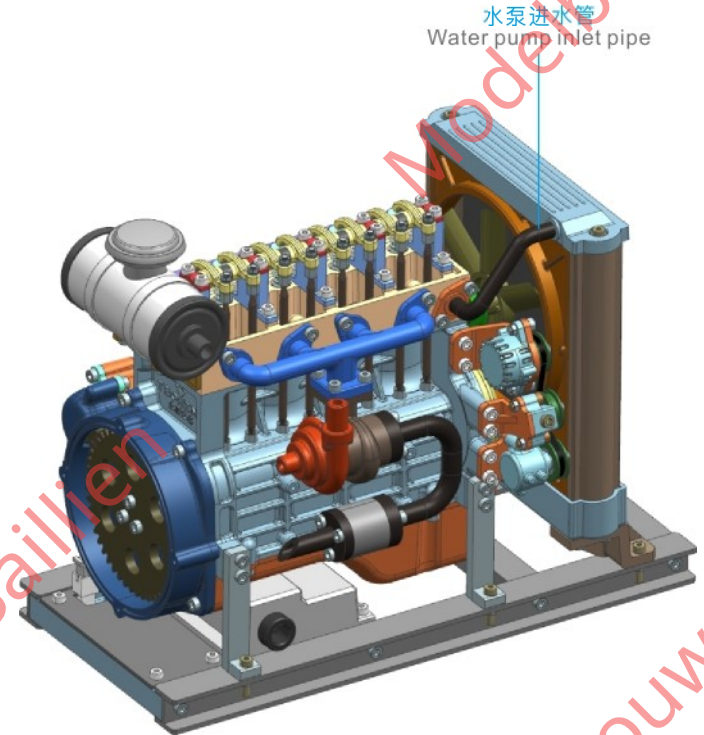
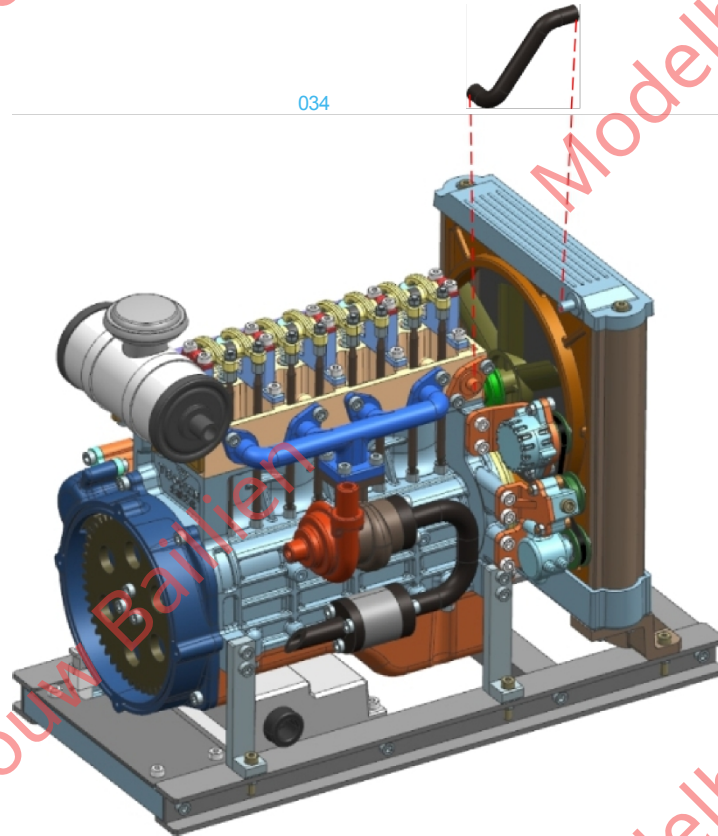
32. 77

77€ @ -Sluit de uitlaatpijp van de waterpomp aan

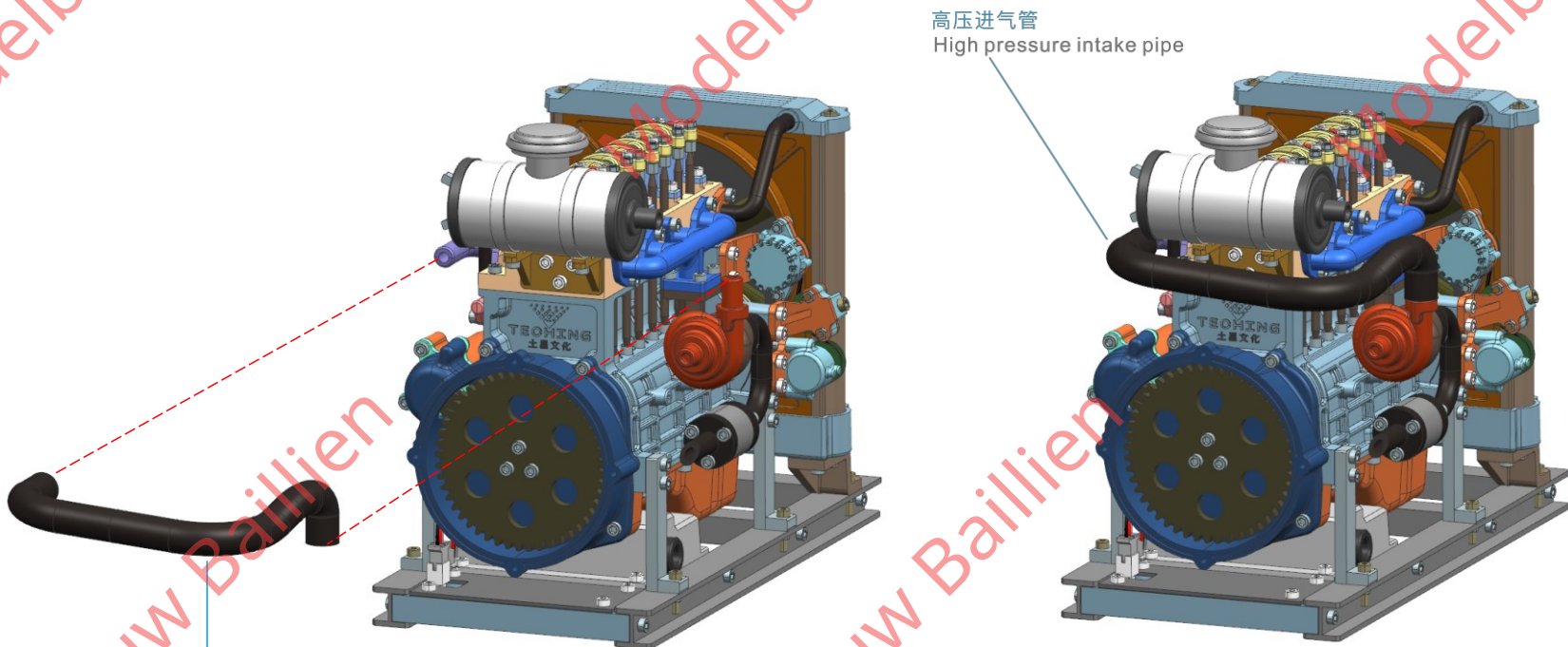


77 泵出水管
Uitlaatpijp van de
waterpomp

33. E@7]¢1kzk@ - Sluit de inlaatpijp van de waterpomp aan



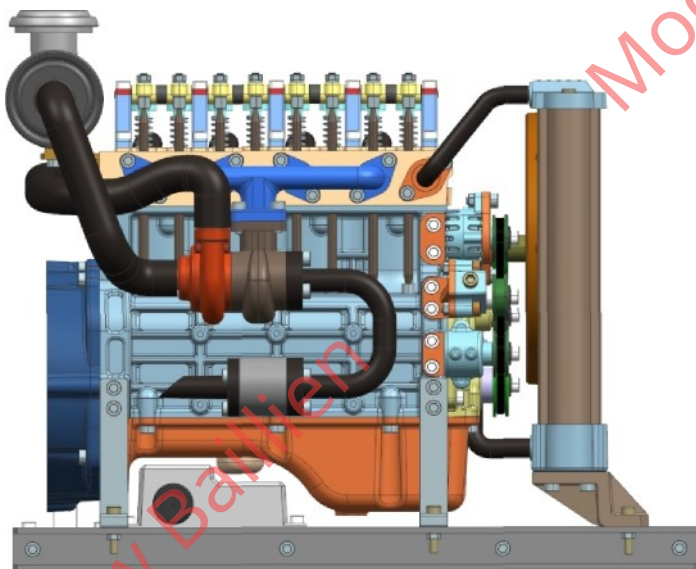
34. 连接高压进气管 - Connect the high-pressure intake pipe



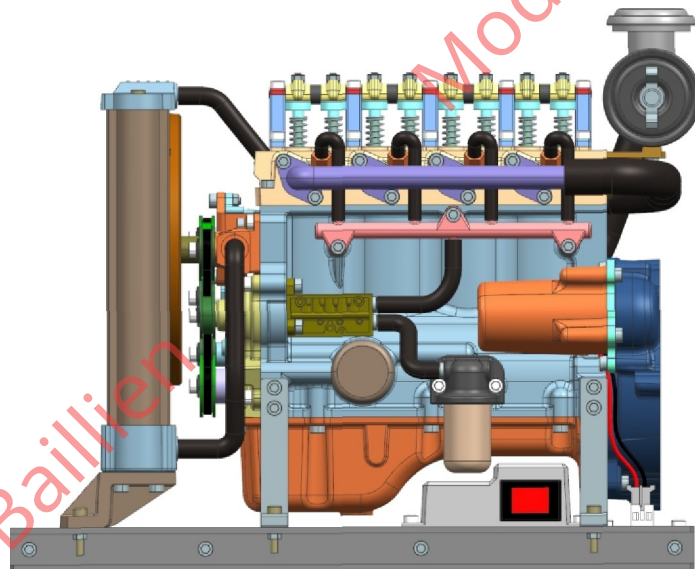
35. E1E(2 @ 1@ - Sluit de lagedruk-aanzuigleiding aan



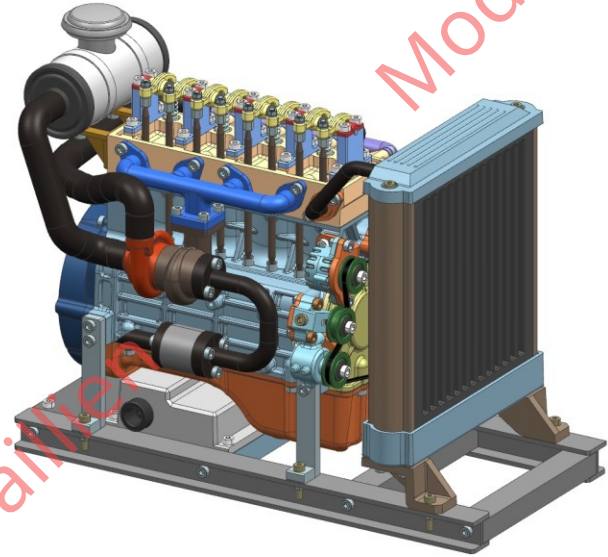
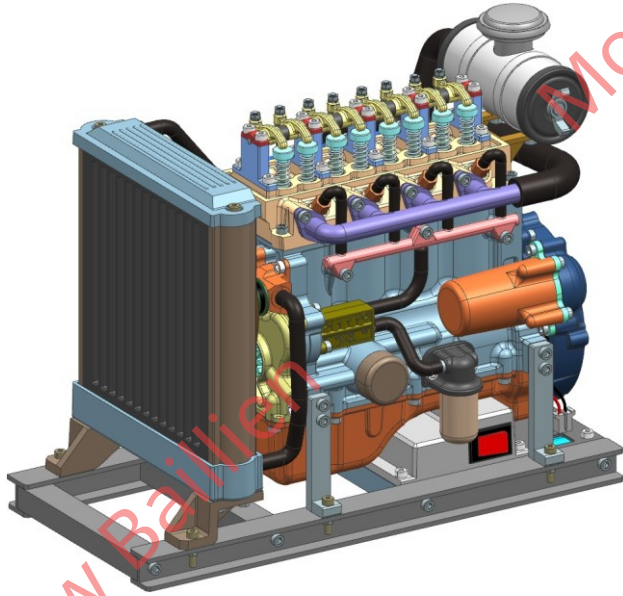
IC
Achteraanzicht



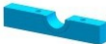
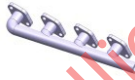
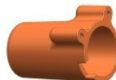
右侧视图
Achteraanzicht



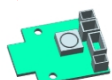
左侧视图
Achterkant

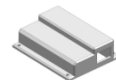


1. @ n"n@ 4\$@ \$!J@ Lijst met productonderdelen

001		Nokkenas	1
002		曲轴前压盖 Krukas voorste pakkingbus	1
003		@flll/ VAT Achterpakking krukas	1
004		US Cilinderblok	1
005		进气歧管 Inlaatspruitstuk	1
006		排气歧管 Uitlaatspruitstuk	1
007		电机罩 Motordeksel	1
008		曲轴箱前端盖 Voorste carterdeksel	1

009		krukas	1
010		空气滤清器 Luchtfilter	1
011		Voorzijde luchtfilter	1
012		空气滤帽 Luchtfilterdop	1
013		缸头 Cilinderkop	1
014		油底壳 Oliecart er	1
015		水箱顶盖 Bovenklep watertank	1
016		水箱底盖 Waterreserv onderdeksel	1

017		冷凝器 Condensor	1
018		风扇罩 Ventilatorafdekking	1
019		水箱立柱 Watertankkolom	2
020		Ronde kop	1
021		电机接头 Motorconnector	1
022		船型开关 Tuimelschakelaar	1
023		USS Printplaat	1
024		电池 Batterij	1

025		's Rie och	1
026		7/@ ten@ Linker steun van watertank	1
027		7 @@@ Rechter steun van watertank	1
028		电路板盖板 Afdekking printplaat	1
029		电池座 Batterijhouder	1
030		缸体支架 Cilinderbloksteen	4
031		柴油滤清器 Dieselfilter	1
032		启动电机 Startmotor	1

033		空气滤清器支架 Luchtfilterbeugel	1
034		水泵进水管 Inlaatleiding waterpomp	1
035		7/@ 7/@ Uitlaatpijp waterpomp	1
036		高压进气管 Hogedruk inlaatpijp	1
037		连杆 Drijfstang	4
038		活塞 Zuiger	4
039		飞轮壳 Vliegwielbehuizing	1
040		低压进气管 Lagedruk- aanzuigleidin g	1

041		tx (E) Langsbalk balk (links)	1
042		van (s) Langsbalk (rechts)	1
043		Accudeksel	1
044		摇臂轴 Tuimelas	1
045		消音器 Geluidde mper	1
046		空压机 Luchtcompressor	1
047		空气滤帽 Luchtfilterdop	1
048		发电机 Generator	1

049		凸轮轴端盖 Eindkap nokkenas	1
050		发电机支架 Generatorsteun	1
051		摇臂轴支座 Steun voor tuimelas	5
052		机油滤清器 Olievezel	1
053		油泵滤清器 Oliefilter	1
054		油泵齿轮 Tandwiel oliepomp	1
055		曲轴轴套 Spanwielbehuizing fsmme	1
056		排气拐弯 Uitlaatpijp	1

057		共轨管 Common-rail-leiding	1
058		空压机支架 Air compressor support	1
059		油泵 Oliepomp	1
060		排气尾管 Uitlaatpijp	1
061		排气涡轮增压泵 Uitlaatturbocompressor pomp	1
062		进气涡轮增压泵 Inlaat turbocompressor pomp	1
063		I Balk	2
064		S>> Uitwerperpe n	8

065		风扇轴盖 Afdekking ventilatoras	1
066		电机固定座 Bevestigingsbasis voor motor	1
067		7/@ Waterpomp	1
068		Spanningswiel behuizing	1
069		油泵主动齿轮 Aandrijftandwiel oliepomp (14 tanden)	1
070		风扇 Ventilator	1
071		IQ (49t\$) Vliegwielt (49 tanden)	1
072		摇臂 Tuimelaar	8

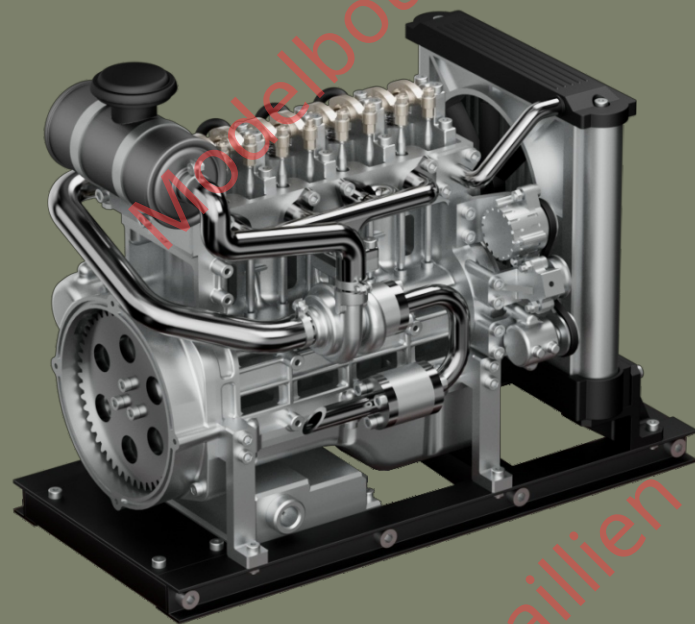
073		定位皮带轮 Positioneringspoelie	2
074		皮带轮 Poelie	5
075		曲轴轴瓦 Krukaslagerschalen	3
076		凸轮轴瓦 Kogellagerschalen	5
077		摇臂轴套管 Schommelastanghuls	4
078		张紧轮轴 Span-as	1
079		摇臂顶杆套 Uitwerphuls voor tuimelaar	8
080		:asa Zuigerpen	4

081		摇臂螺丝 Schroef voor tuimelaar	8
082		气门帽 Klepdeksel	8
083		Oliepomp- pijpverbinding	3
084		油嘴管 Oliepijpleiding 01	1
085		油嘴管 Oliepijpleiding 02	1
086		气门 Klep	8
087		Drijfstanglager	4
088		Ventilator schroef	1

089		皮带轮过渡轴 Overgangas poelie	1
090		电动机齿轮 Motortanden (12 tanden)	1
091		油嘴 Olie- sproeikop	4
092		油嘴管 Sproeibuis	4
093		水箱管连接口 Aansluitpoort van de watertankleiding	1
094		油泵齿轮轴 Tandwielas oliepom	1
095		Spanningswi- el schuifstang	1
096		Vlinder Torx-schroef	1

097		电机轴套 Motor-asbus	1
098		@\$g1\$fi (14a) Krukas wiel (14 tanden)	1
099		气门弹簧 Klepveer	8
100		M1.6*4杯头螺丝 M1,6 4-kopschroef	2
101		M 2,0* 5(T T Schroef met bolkop	30
102		M2,0*6(T Schroef met bolkop	100
103		M2.0*8杯头螺丝 Schroef met komkop	29
104		CM2.0*4 @i Schroef met platte kop	8
105		M 2,0*10 Komschroef	1

106		M2,0*22@	3
107		CM3.0*4 平头螺丝	2
108		M 2,0 @	18
109		4*8*3\g 7 Lager	8
110		7*11 *3 INIT	1
111		M 2,0 N	8
112		M 2,5 @	8
113		platte M2,0J9N Veerring	8
114		M2,5*8(T g Schroef met bolkop	16



劳动创造美好生活
Labor creates a better life

公 司 广州市土星文化发展有限公司
Company Guangzhou Teching Culture Development Co., Ltd
地 址 广州市黄埔区宏明路宝盛大厦
Address Baosheng building, Hongming Road, Huangpu District, Guangzhou City, China.
热线电话 4001-020-019 +86 13924277386
Service Tel
售后邮箱 sales@techingedu.com.cn
After-sales email
网 址 http://www.techingedu.com
Website



WHATSAPP



TECH ING



土星官网
OFFICIAL WEBSITE

版本 (Version) : DM115