



DHL12Q0103

WP12系列柴油机零件图册
WP12 SERIES DIESEL PARTS CATALOGUE

潍柴动力股份有限公司
WEICHAIR POWER CO., LTD.

前 言

为使WP12系列柴油机在使用、维护等工作上的方便特汇编本图册以供我方与用户在使用中查阅参考。

该图册基本上按组绘出了各个零件的图形相互关系。图序号、件号、数量、中文名称、英文名称等列于明细表栏内。

随着技术和生产的不断发展柴油机的变形将增多故本图册的内容将有所更新。变化不再另行通知特请用户注意。用户为获取最新产品信息应咨询潍柴动力股份有限公司。

FOREWORD

This illustrated parts manual is specially prepared for customers to facilitate the use of WP12 series diesel engine in operation and tenance.It only includes the main models manufactured in the works at present,with regard to other models,the customers may refer to this catalogue.

The illustrations are grouped under the heading of each assembly and numbered individually.Part.

No.,Quantity,Model,English designation,Chinese designation and so on are written in the parts list With the development of technology and production,the versions of the diesel engine will be increased, so the catalogue will be revised.Please pay attention to our revised edition.If you want to get the most newly information about the products,please visit the Website:<http://www.weichai.com>.

目 录 CONTENTS

机体结合组(Engine Block Group)	1
气缸体预装配(Pre-assembled cylinder block)	5
正时齿轮室结合组(Timing Gear Housing Group)	7
前端盖结合组(Cylinder Block Front Cover Group)	9
油气分离器结合组(Oil-gas Separator Group)	11
油尺结合组(Dipstick Group)	13
油尺管组件(Dipstick tube assembly)	15
加油管结合组(Oil Tilling Tube Group)	17
飞轮壳结合组(Flywheel Housing Group)	19
曲轴结合组(Crankshaft Group)	21
曲轴总成(Crankshaft assembly)	23
飞轮结合组(Flywheel Group)	25
曲轴皮带轮结合组(Crankshaft Pulley Group)	27
活塞连杆结合组(Piston and Connecting Rod Group)	29
连杆总成(Connecting rod assembly)	31
活塞环组件(Piston ring assembly)	33
气缸盖结合组(Cylinder head assembly)	35
气缸盖分总成(Cylinder head subassembly)	37
气缸盖罩结合组(Cylinder Head Cover Group)	39
配气机构结合组(Valve Train Group)	41
凸轮轴总成(Camshaft assembly)	45
中间齿轮总成(Intermediate gear assembly)	47
EVB排气摇臂组件(EVB Exhaust Rocker Arm Set)	49
进气门摇臂总成(Intake valve rocker arm)	51
出水管结合组(Water Outlet Pipe Group)	53
水泵结合组(Water pump assembly)	55
风扇托架结合组(Fan Bracket Group)	57
风扇及轮毂结合组(Fan and Hub Group)	59
张紧轮及皮带结合组(Tensioner and Belt Assembly)	61
机油泵结合组(Oil pump assembly)	63

机油泵中间齿轮组件(Oil Pump Idle Gear Assembly).....	65
机油滤清器结合组(Oil filter assembly)	67
机油滤清器总成(Oil filter assembly).....	69
机油集滤器结合组(Oil Suction Strainer Group).....	71
机油冷却器结合组(Oil cooler assembly)	73
喷油器结合组(Injector assembly)	75
高压油管结合组(High Pressure Fuel Injection Pipe Group).....	77
高压油管总成(High pressure pipe assembly)	79
高压油泵结合组(High pressure pump assembly)	81
燃油滤清器结合组(Fuel Filter Group)	83
燃油滤清器(Fuel filter).....	85
低压油管结合组(Low Pressure Oil pipe Group)	87
停车装置结合组(Shut-down Device Group)	89
发电机结合组(Generator Group).....	91
发电机支架结合组(Generator Bracket Group).....	93
起动机结合组(Starter Motor Group)	95
火焰预热起动系统(Flame preheated starting system).....	97
火焰预热装置(Flame preheated equipment)	99
普通线束及传感器结合组(General-use Wire and Sensor Group).....	101
进气管结合组(Intake Manifold Group).....	103
进气管总成(Air inlet pipe assembly)	105
排气管结合组(Exhaust Manifold Group).....	107
增压器结合组(Turbocharger assembly)	109
增压器润滑油管结合组(Turbocharger Oil pipe Group)	111
压气机管路结合组(Compressor Pipeline Group).....	113
后排气管结合组(Rear Exhaust Manifold Group)	115
中冷器结合组(Intercooler assembly)	117
空压机结合组(Air Compressor Group).....	119
空压机总成(Air compressor assembly).....	121
液压泵结合组(Hydraulic Pump Group).....	123

油底壳结合组(Oil Pan Group).....125

油底壳总成(Oil pan assembly).....127

发动机支架结合组(Engine Bracket Group).....129

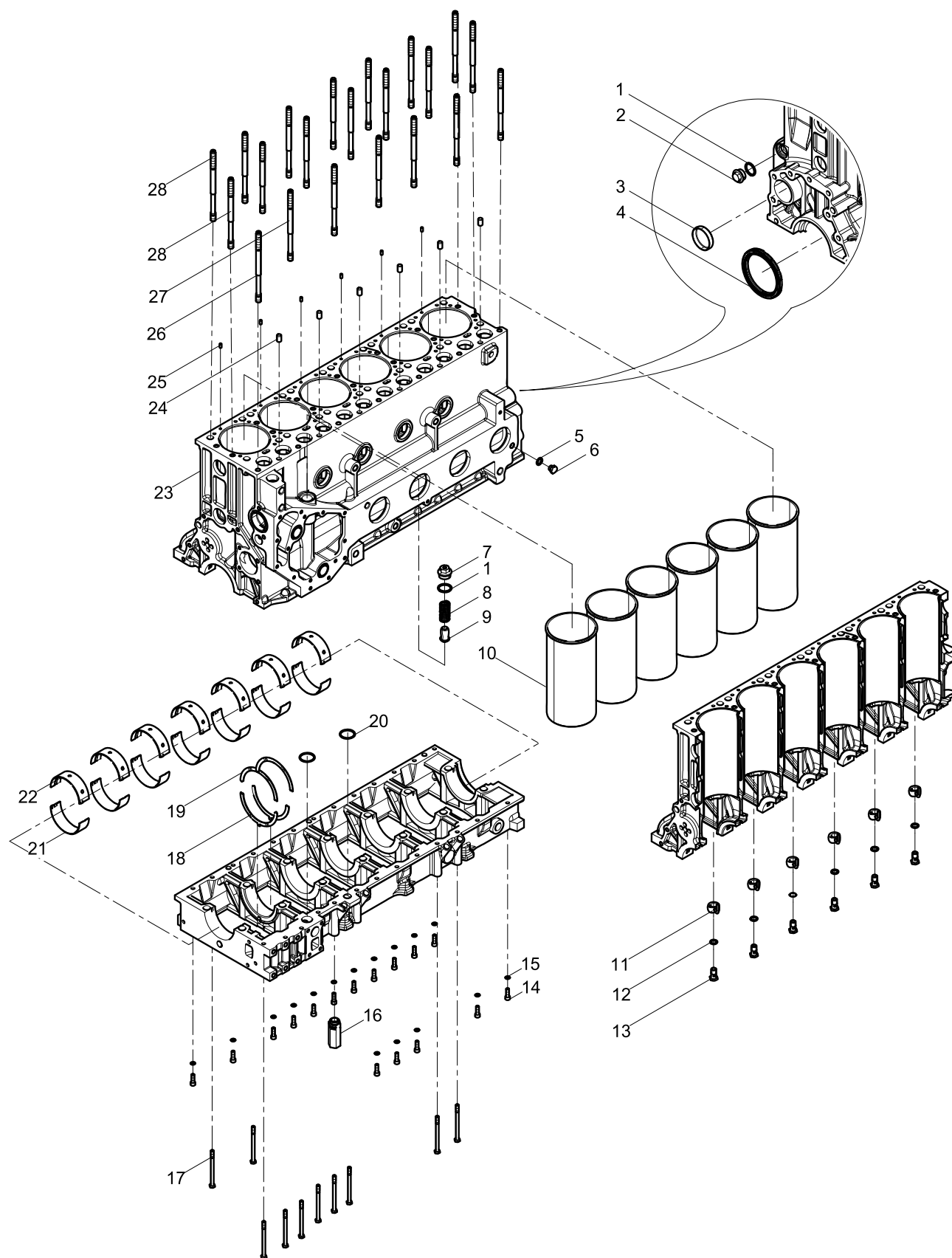
零件箱总成(Parts Kit Assembly)(*01)131

除水放心滤(Fuel filter-water separator)133

零件箱总成(Parts Kit Assembly)(*02)135

燃油水寒宝(Fuel System Protector)137

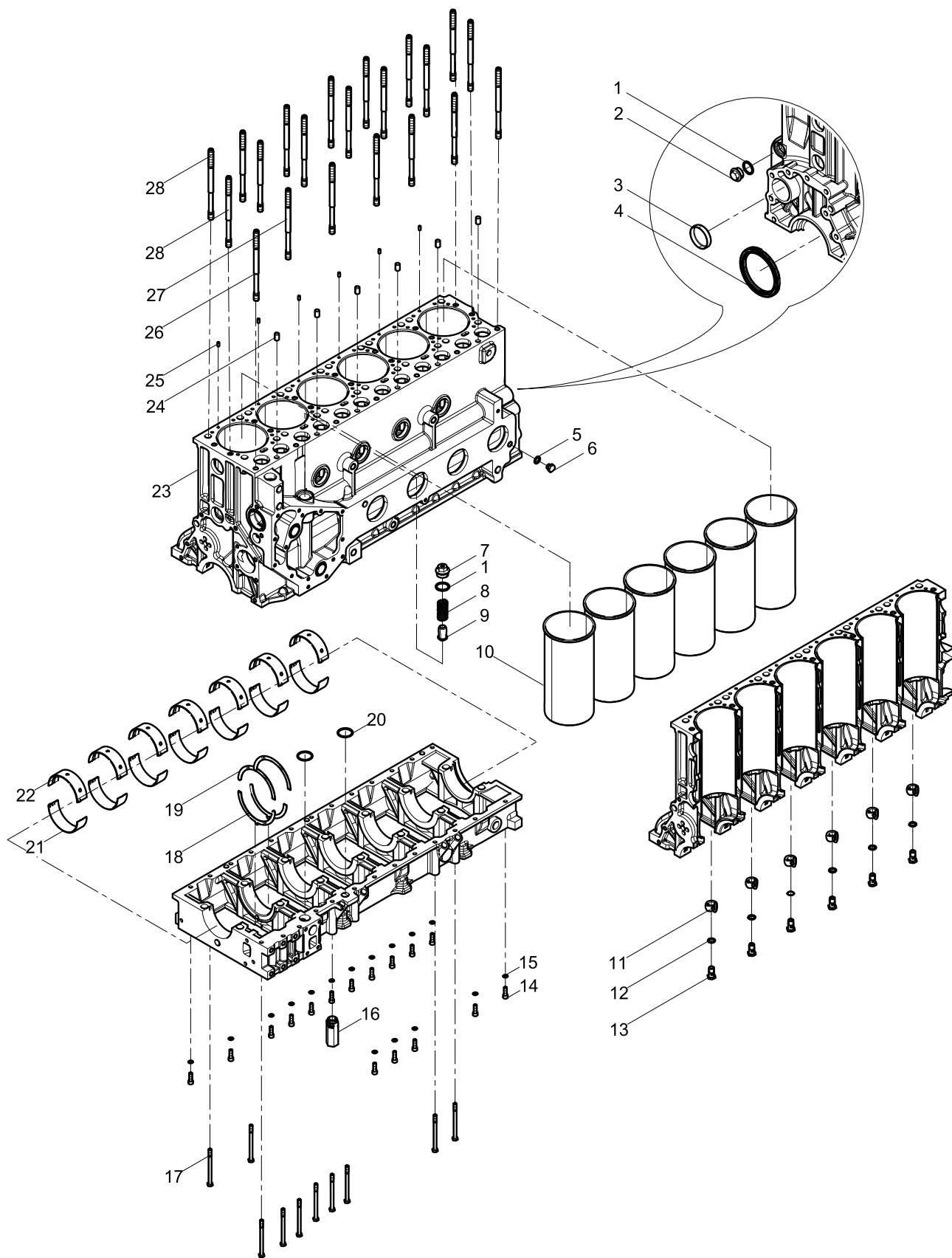
机体结合组(Engine Block Group)



机体结合组(Engine Block Group)

图序号 Pos.	件号 Teile.Number	数量 Amount	中文名称 Denomination	英文名称 Designation
1	612600010735	2	复合垫圈	Washer
2	90003962051	1	六角螺塞	Hexagon plug
3	90003989288	1	碗形塞	Corehole plug
4	61500010100	1	后油封	Rear oil seal
5	612600080200	1	密封垫圈	Seal washer
6	90003962020	1	六角螺塞	Hexagon plug
7	612600070160	1	六角螺塞	Hexagon plug
8	614070068	1	安全阀弹簧	Safety valve spring
9	614070069	1	安全阀	Safety valve
10	612630010055	6	气缸套	Cylinder liner
11	612600010750	6	喷嘴组件	Nozzle assembly
12	90003098015	6	密封垫圈	Seal washer
13	90003962621	6	空心螺栓	Hollow bolt
14	90003862428	17	内六角圆柱头螺钉	Inner hexagon screw
15	188250083	17	自锁垫圈	Washer
16	AZ1500070097	1	主油道限压阀总成	Pressure limiting valve assembly of main oil passage
17	90011350085	10	六角头螺栓	Hexagon bolt
18	612630010630	2	下止推片	Thrust washer (lower)
19	612630010629	2	上止推片	Thrust washer (upper)
20	81400010032	2	密封圈	Seal washer
21	61800010132	7	下主轴瓦	Main bearing bush (lower)
22	61800010128	7	上主轴瓦	Main bearing bush (upper)
23	612600013841	1	气缸体预装配	Pre-assembled cylinder block
24	90003901604	6	圆柱销	Straight pin
25	90003909626	6	弹性圆柱销	Spring dowel pin
26	612600010893	1	气缸盖螺栓	Cylinder head bolt
27	61500010185	6	气缸盖螺栓	Cylinder head bolt

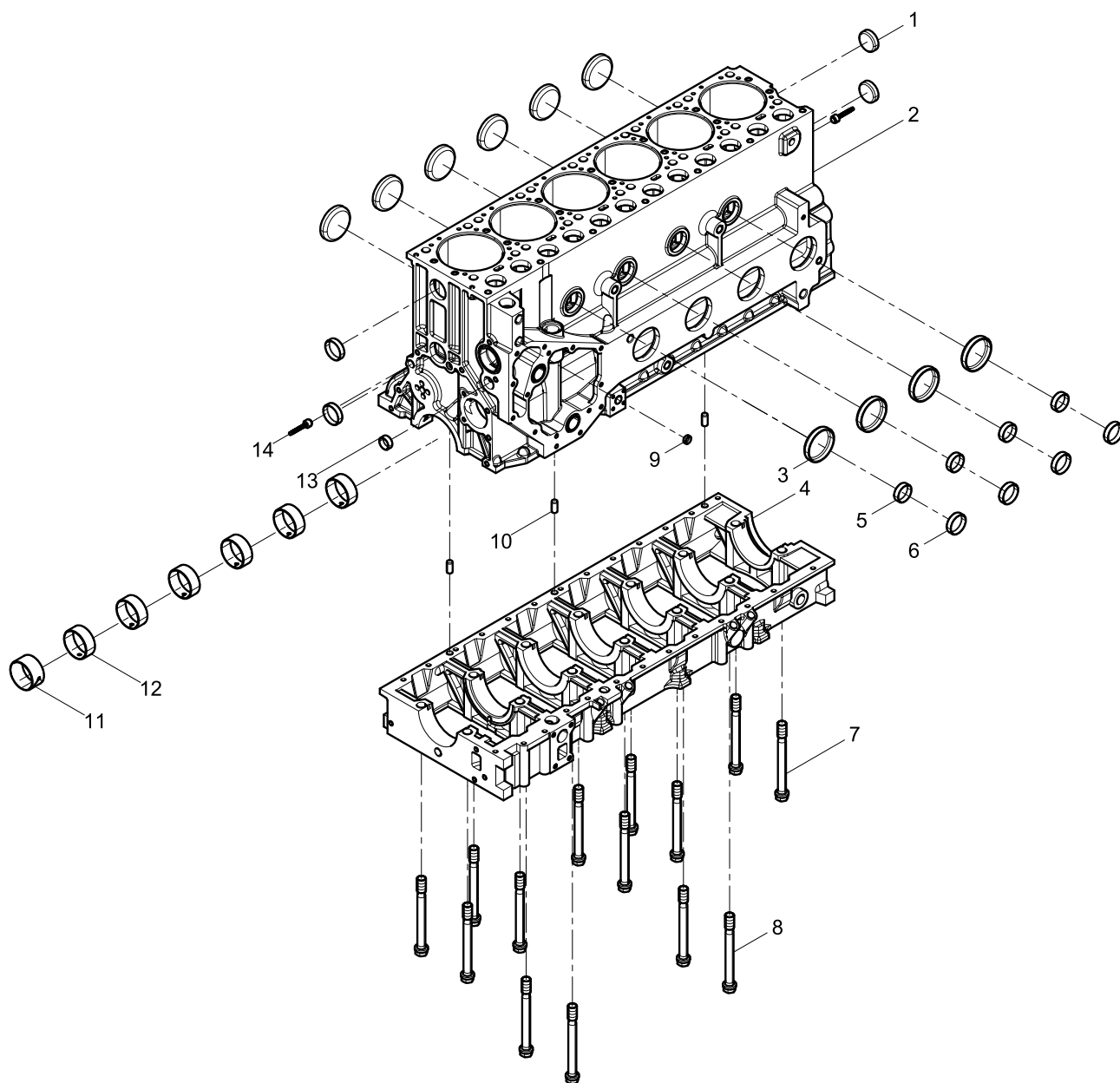
机体结合组(Engine Block Group)



机体结合组(Engine Block Group)

[illegible]

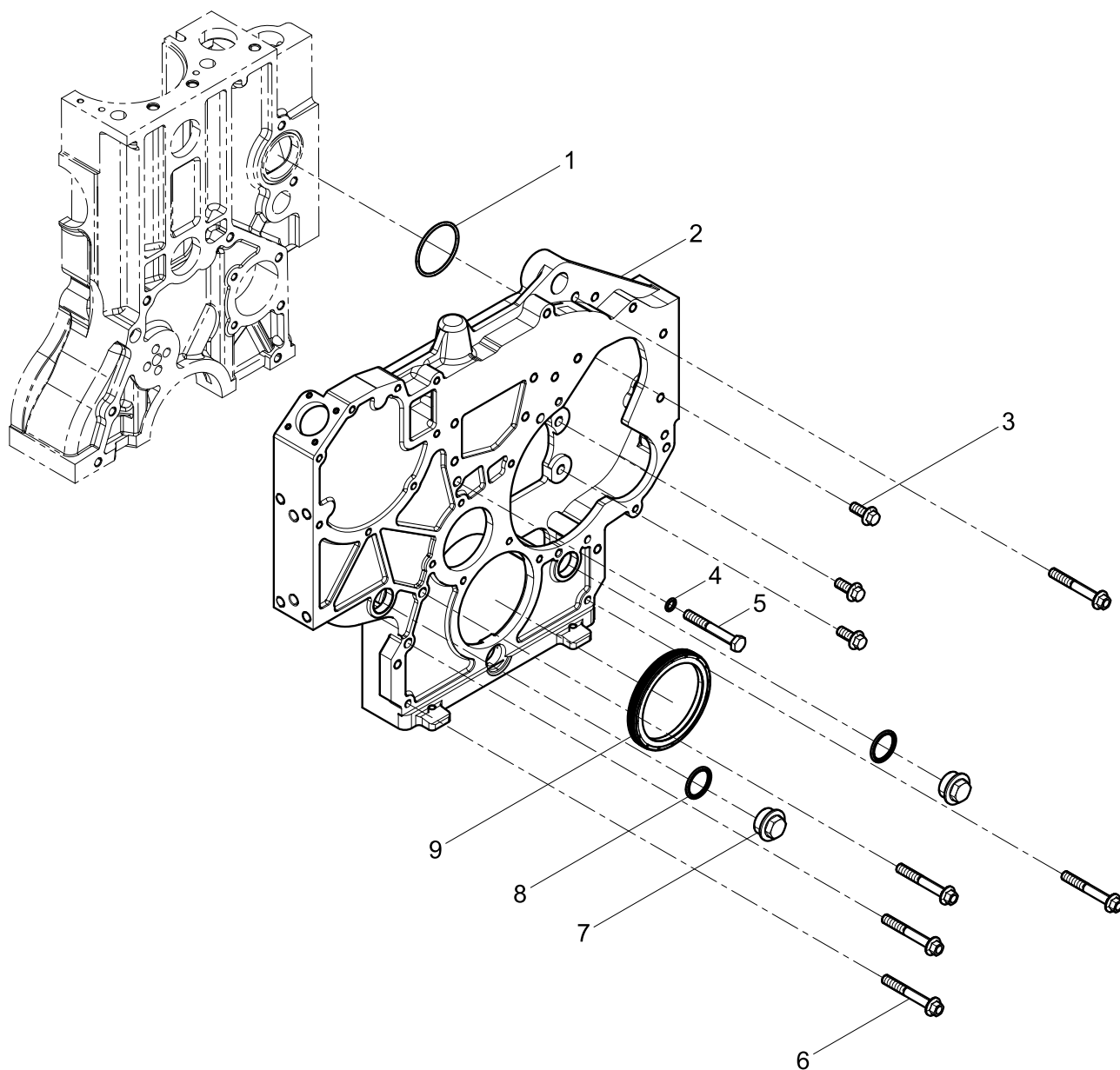
气缸体预装配(Pre-assembled cylinder block)



气缸体预装配(Pre-assembled cylinder block)

[illegible]

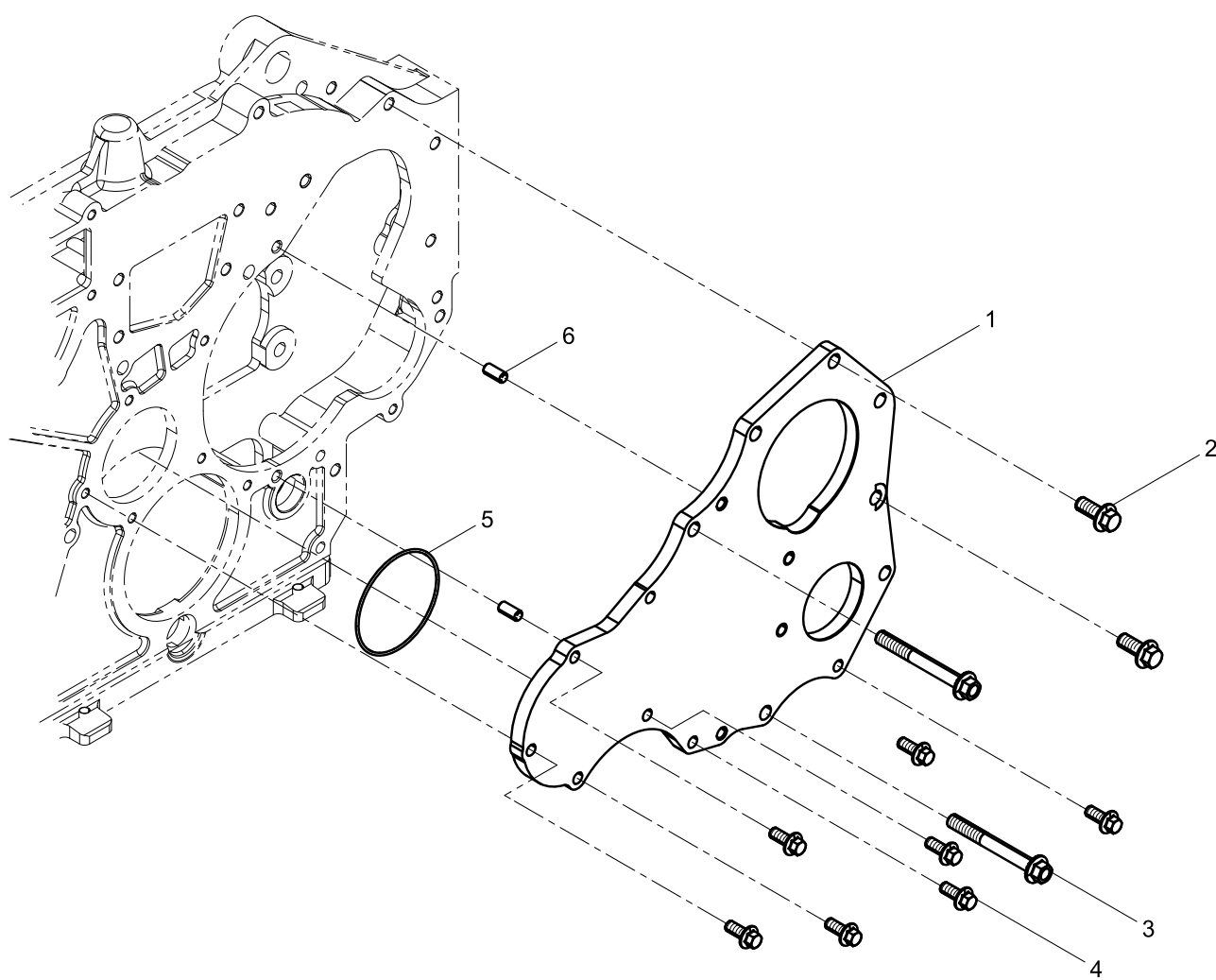
正时齿轮室结合组(Timing Gear Housing Group)



正时齿轮室结合组(Timing Gear Housing Group)

[illegible]

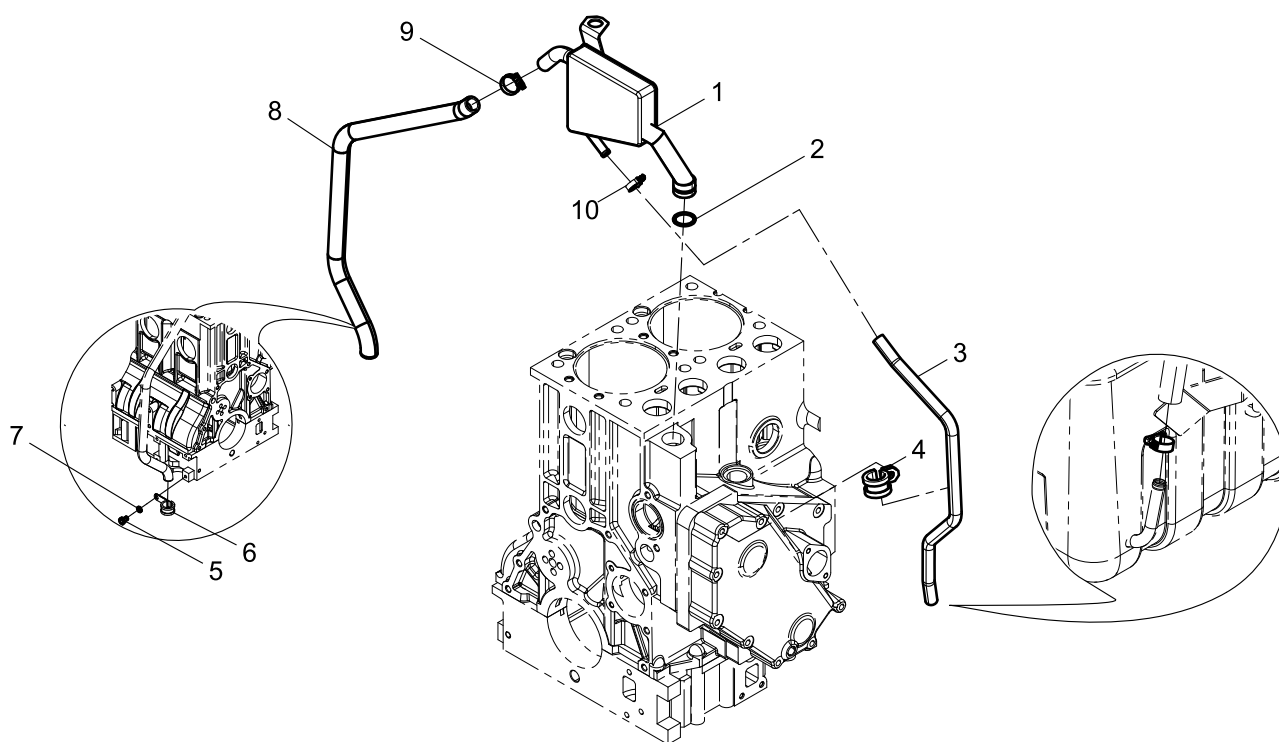
前端盖结合组(Cylinder Block Front Cover Group)



前端盖结合组(Cylinder Block Front Cover Group)

[illegible]

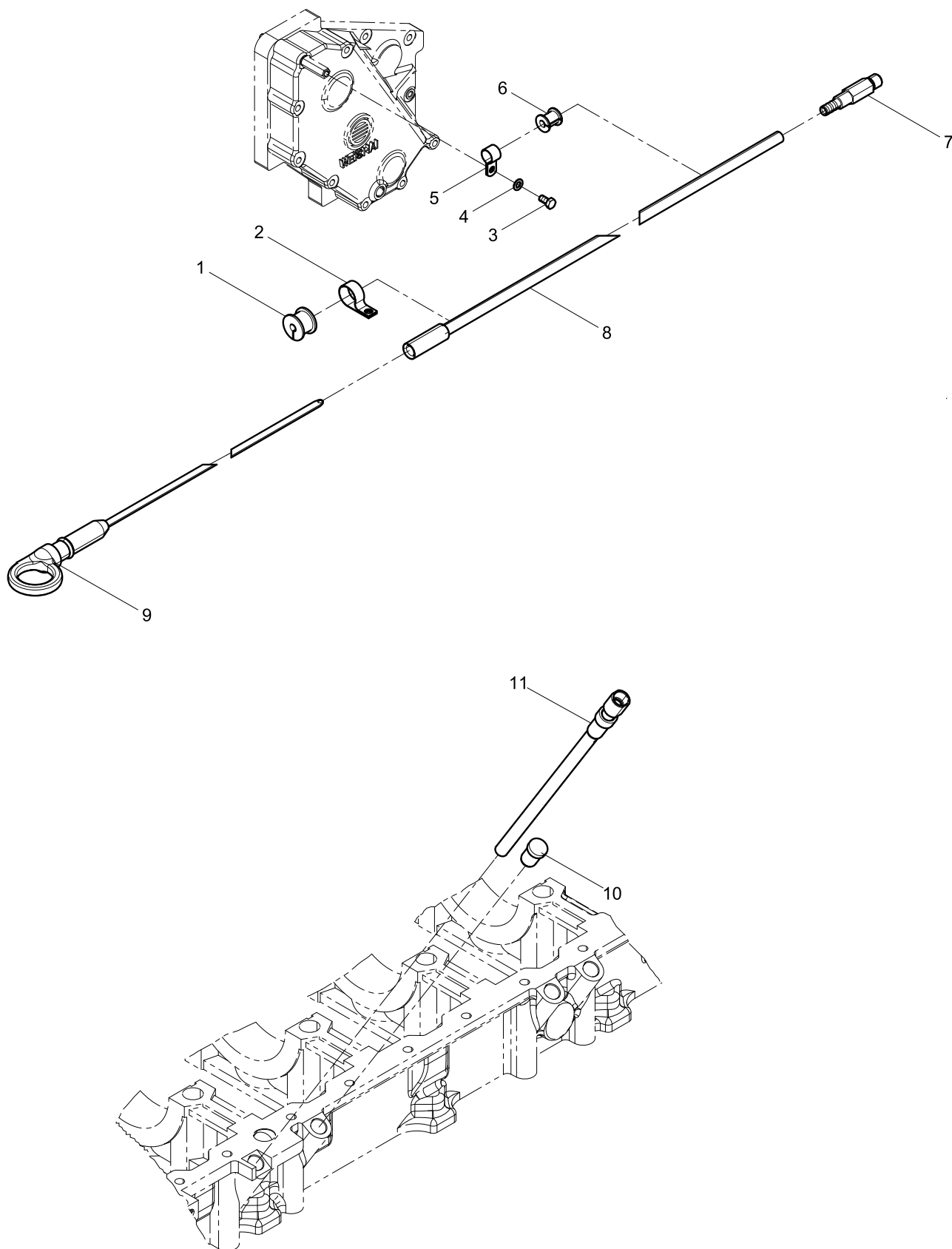
油气分离器结合组(Oil-gas Separator Group)



油气分离器结合组(Oil-gas Separator Group)

[illegible]

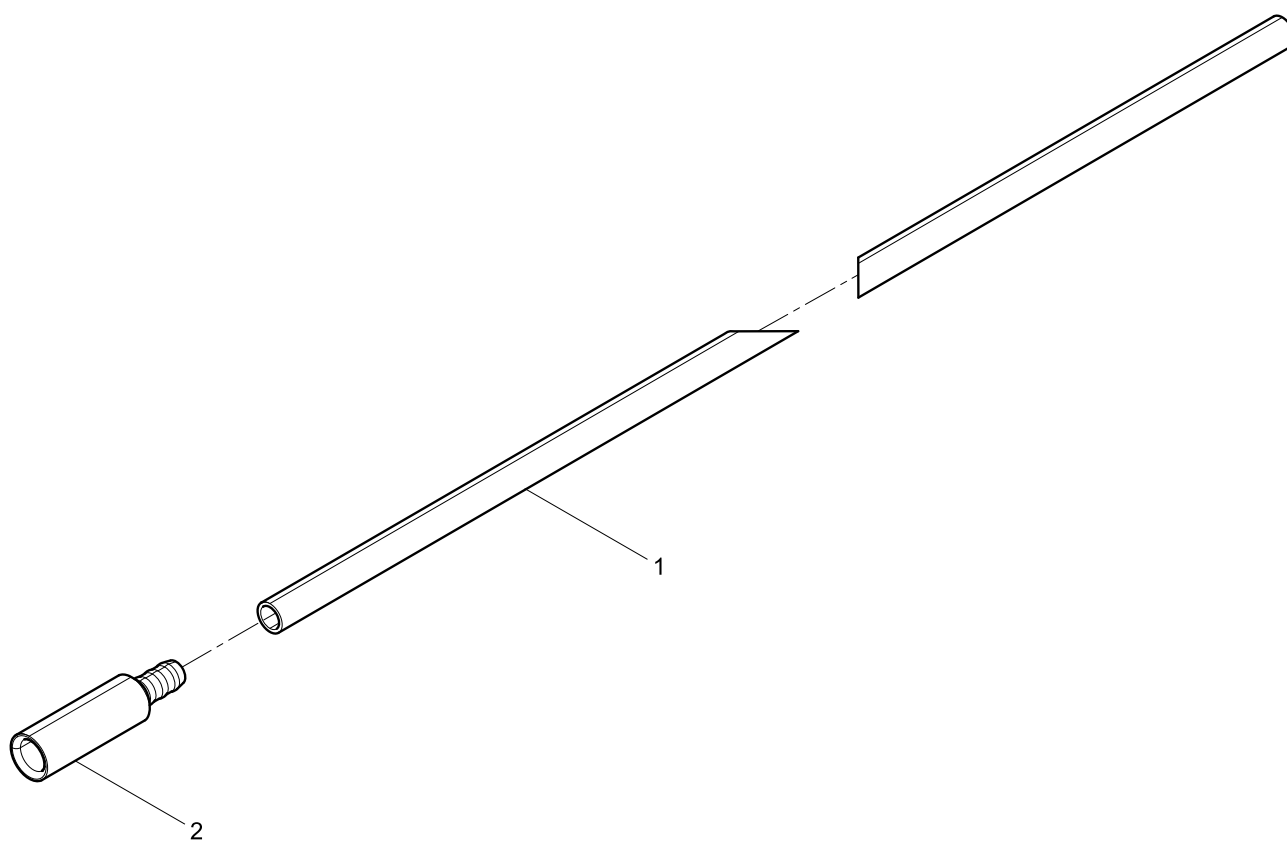
油尺结合组(Dipstick Group)



油尺结合组(Dipstick Group)

[illegible]

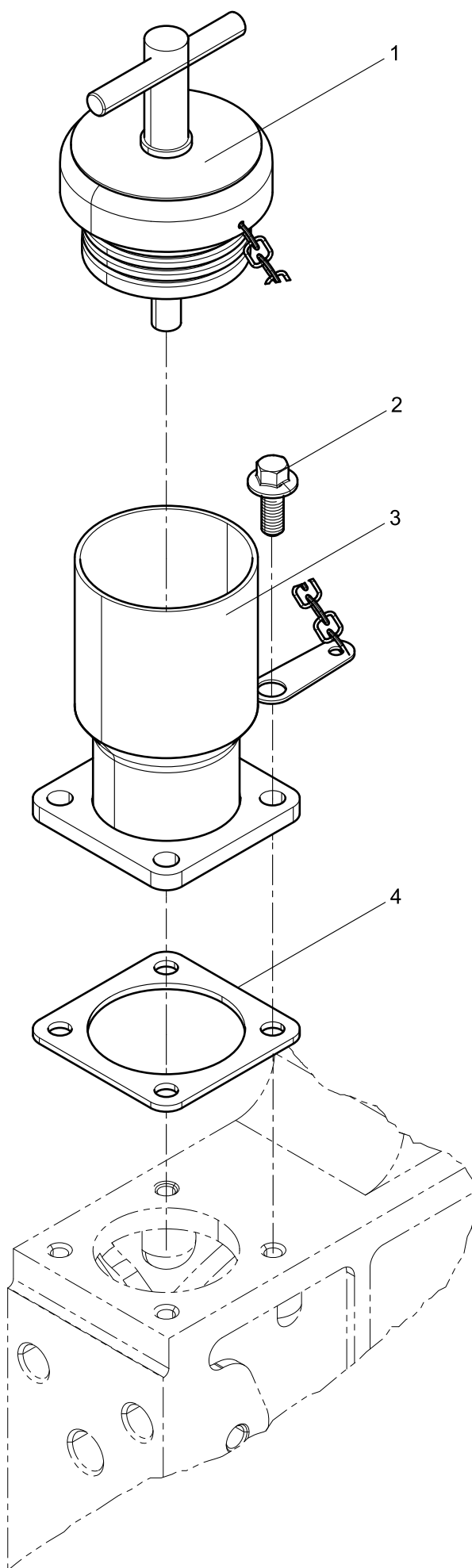
油尺管组件(Dipstick tube assembly)



油尺管组件(Dipstick tube assembly)

[illegible]

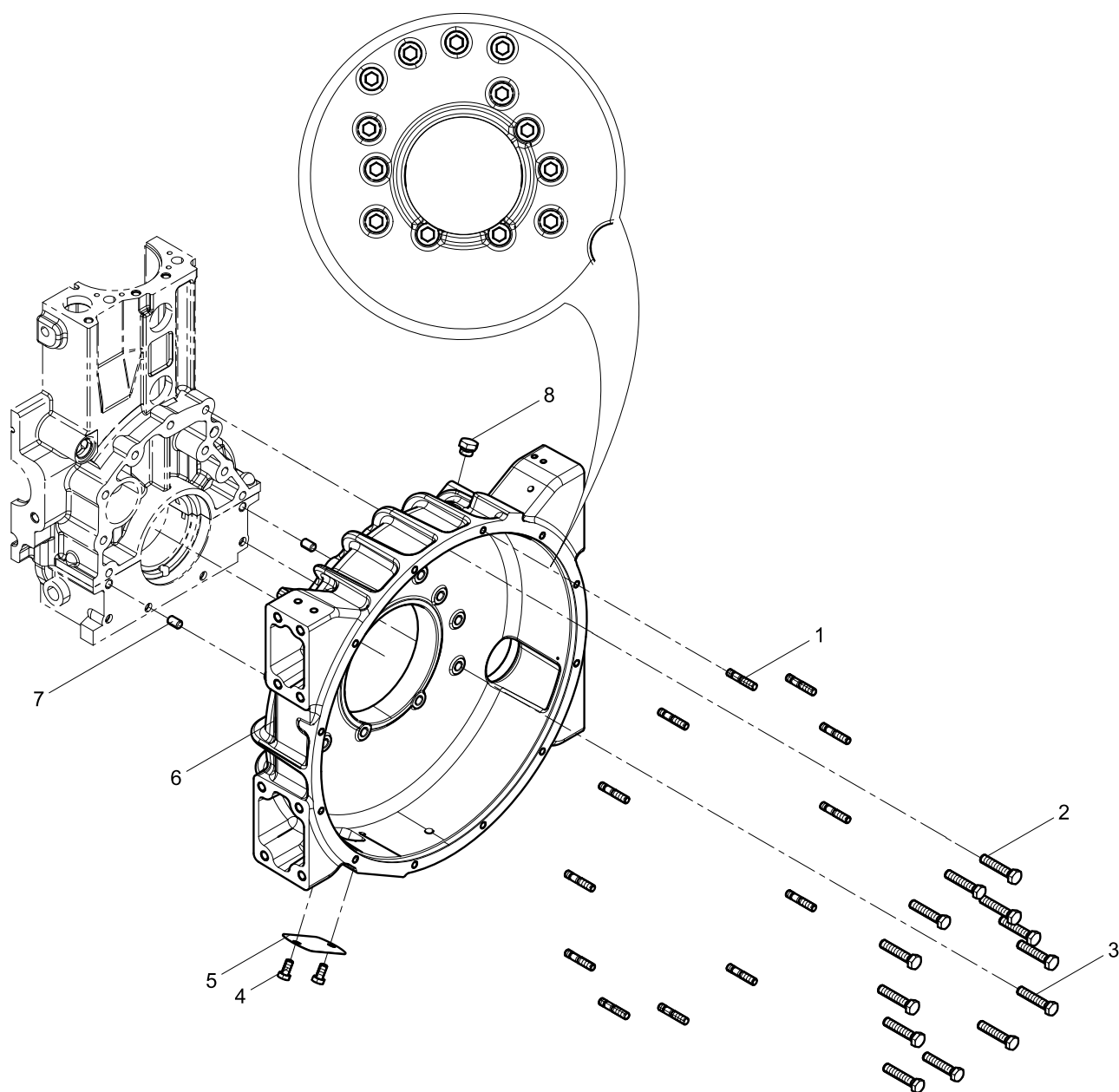
加油管结合组(Oil Filling Tube Group)



加油管结合组(Oil Tilling Tube Group)

[illegible]

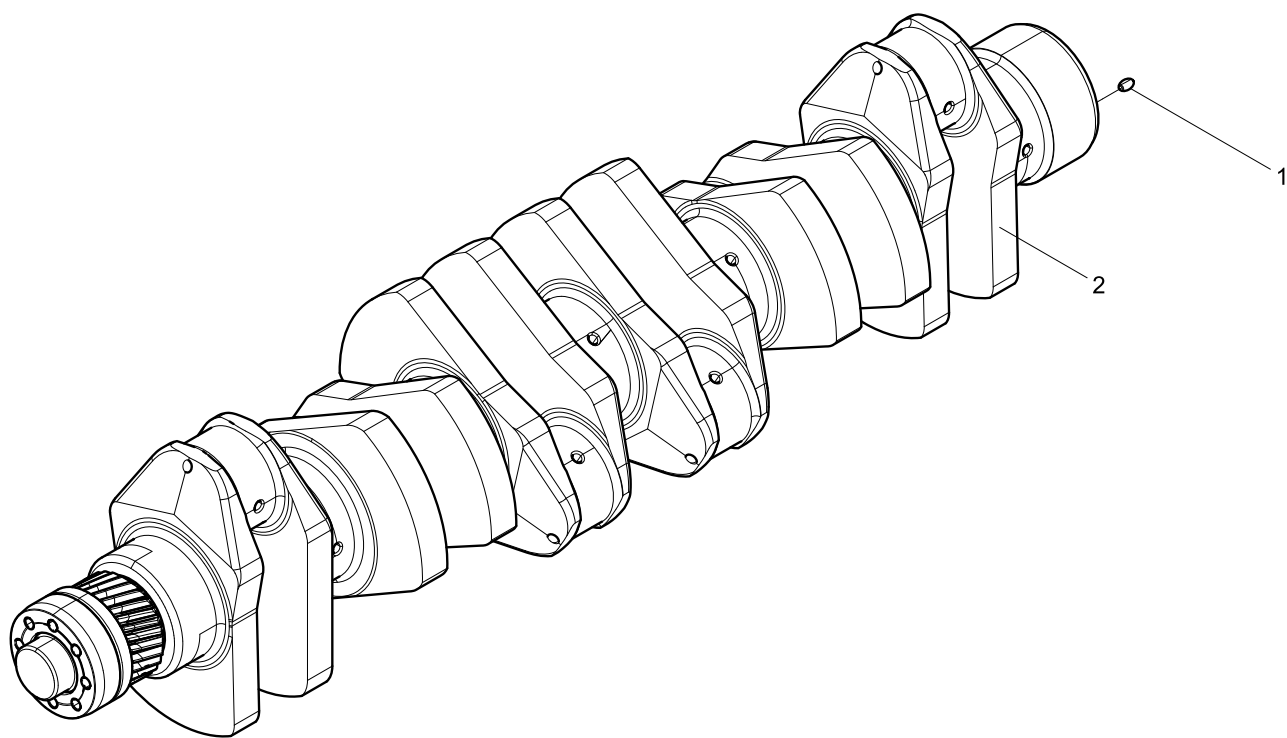
飞轮壳结合组(Flywheel Housing Group)



飞轮壳结合组(Flywheel Housing Group)

[illegible]

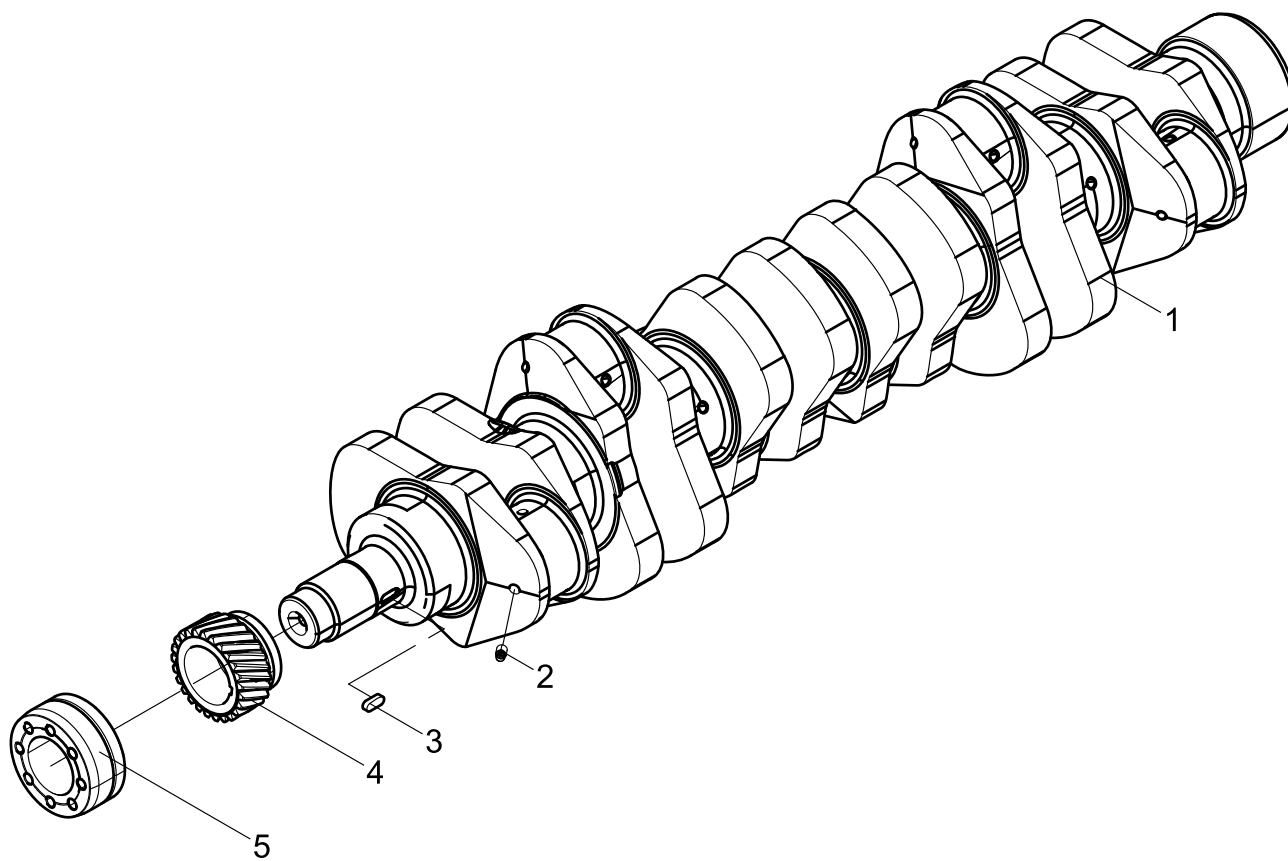
曲轴结合组(Crankshaft Group)



曲轴结合组(Crankshaft Group)

[illegible]

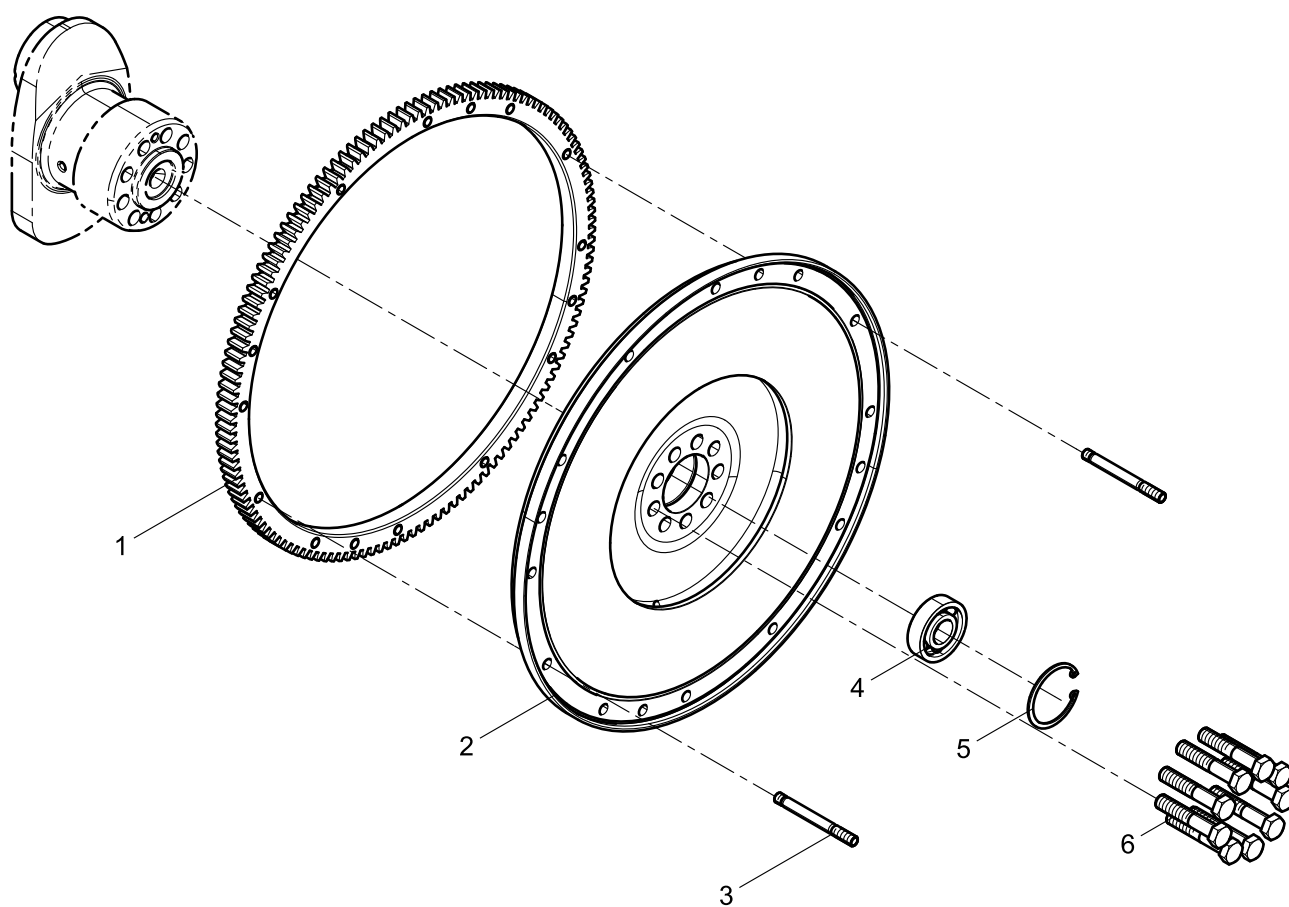
曲轴总成(Crankshaft assembly)



曲轴总成(Crankshaft assembly)

[illegible]

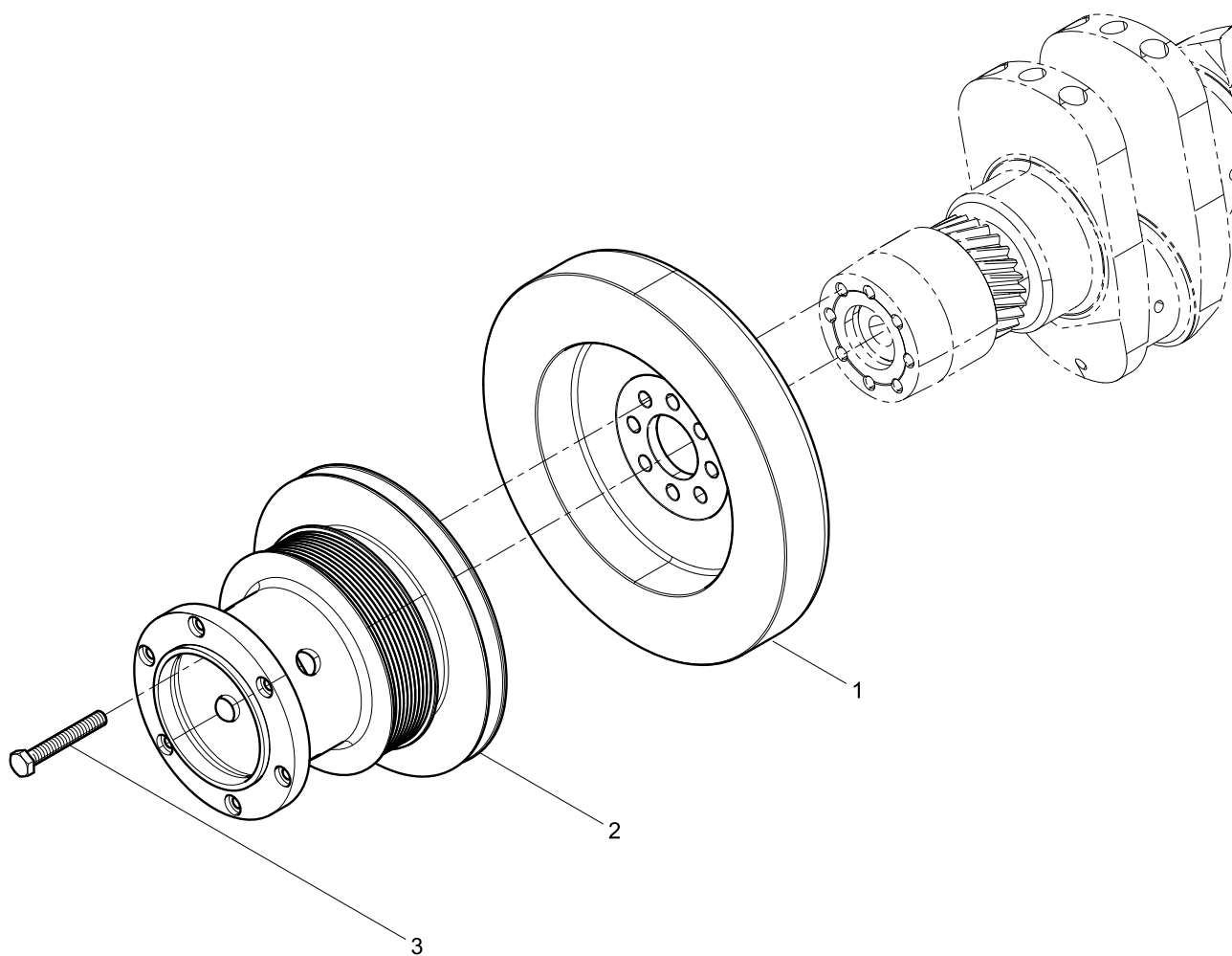
飞轮结合组(Flywheel Group)



飞轮结合组(Flywheel Group)

[illegible]

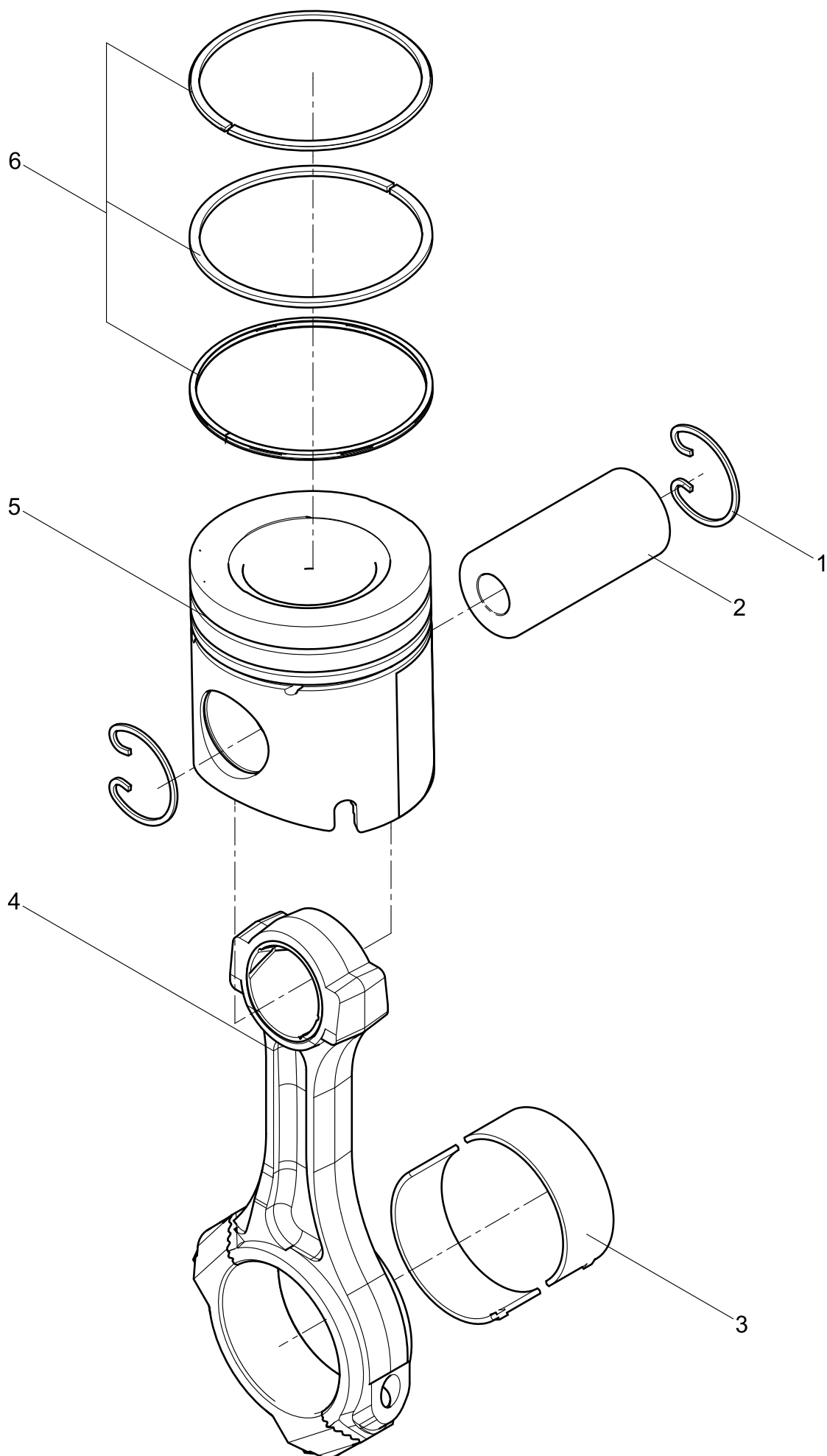
曲轴皮带轮结合组(Crankshaft Pulley Group)



曲轴皮带轮结合组(Crankshaft Pulley Group)

[illegible]

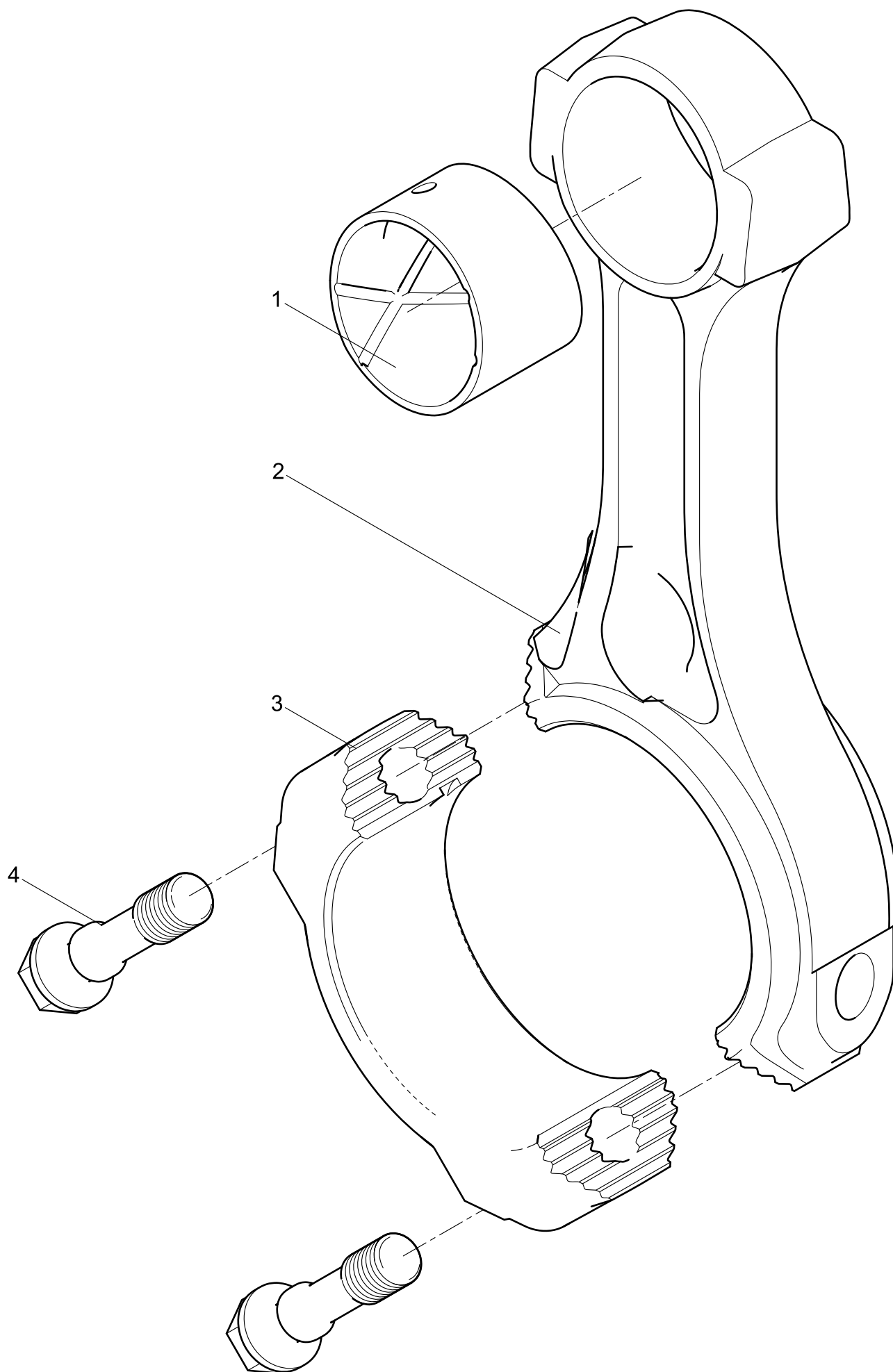
活塞连杆结合组(Piston and Connecting Rod Group)



活塞连杆结合组(Piston and Connecting Rod Group)

[illegible]

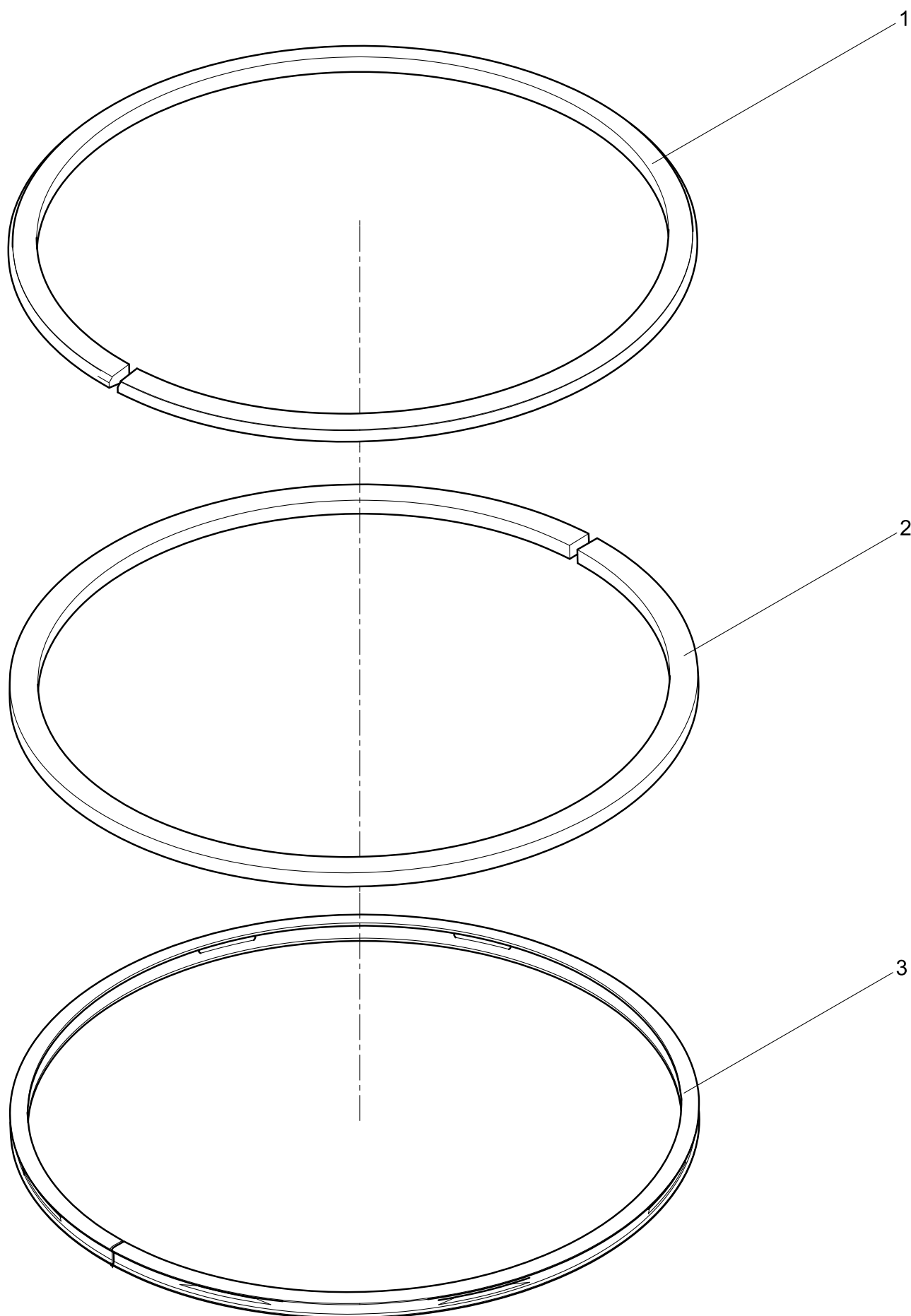
连杆总成(Connecting rod assembly)



连杆总成(Connecting rod assembly)

[illegible]

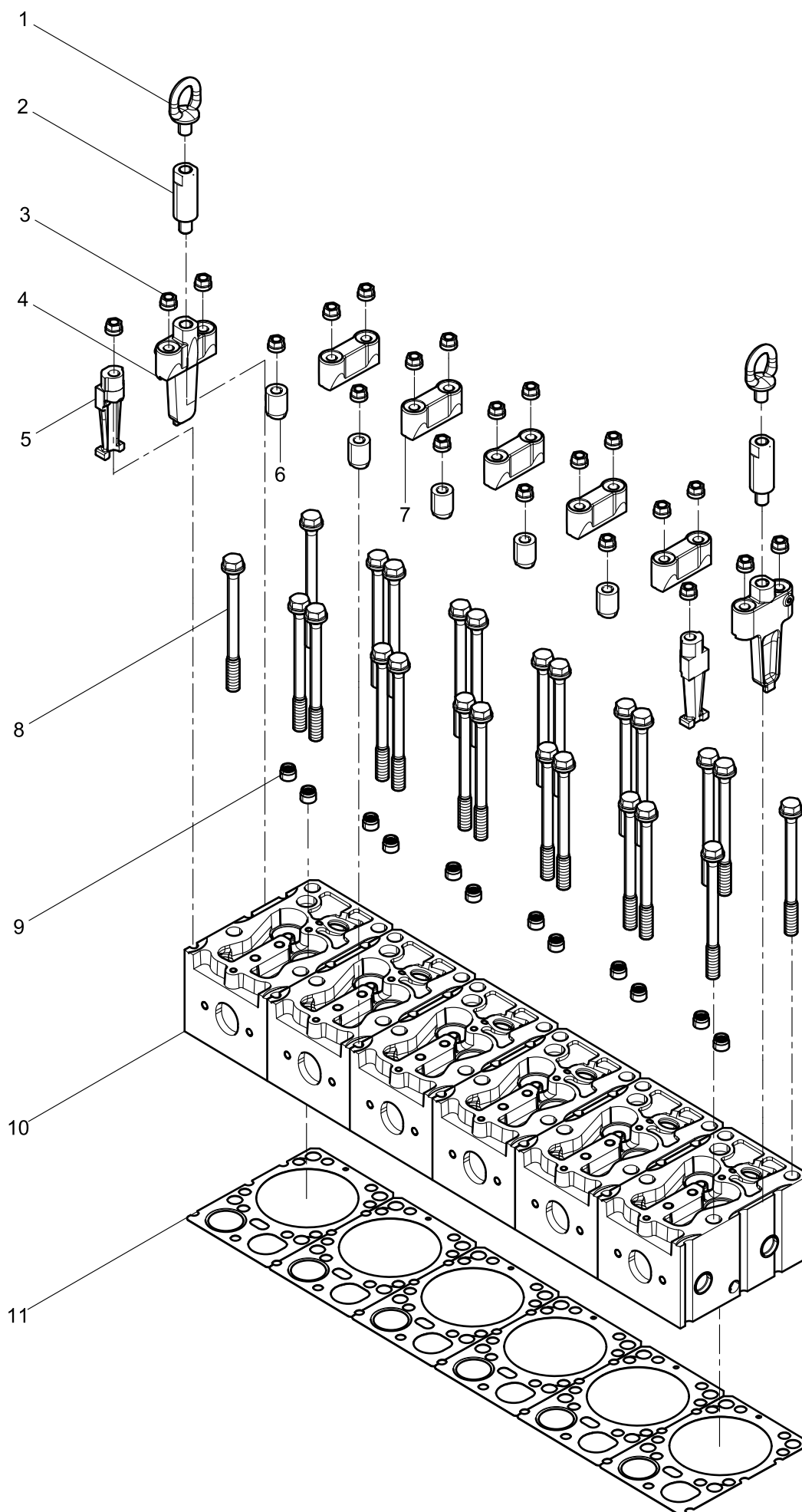
活塞环组件(Piston ring assembly)



活塞环组件(Piston ring assembly)

[illegible]

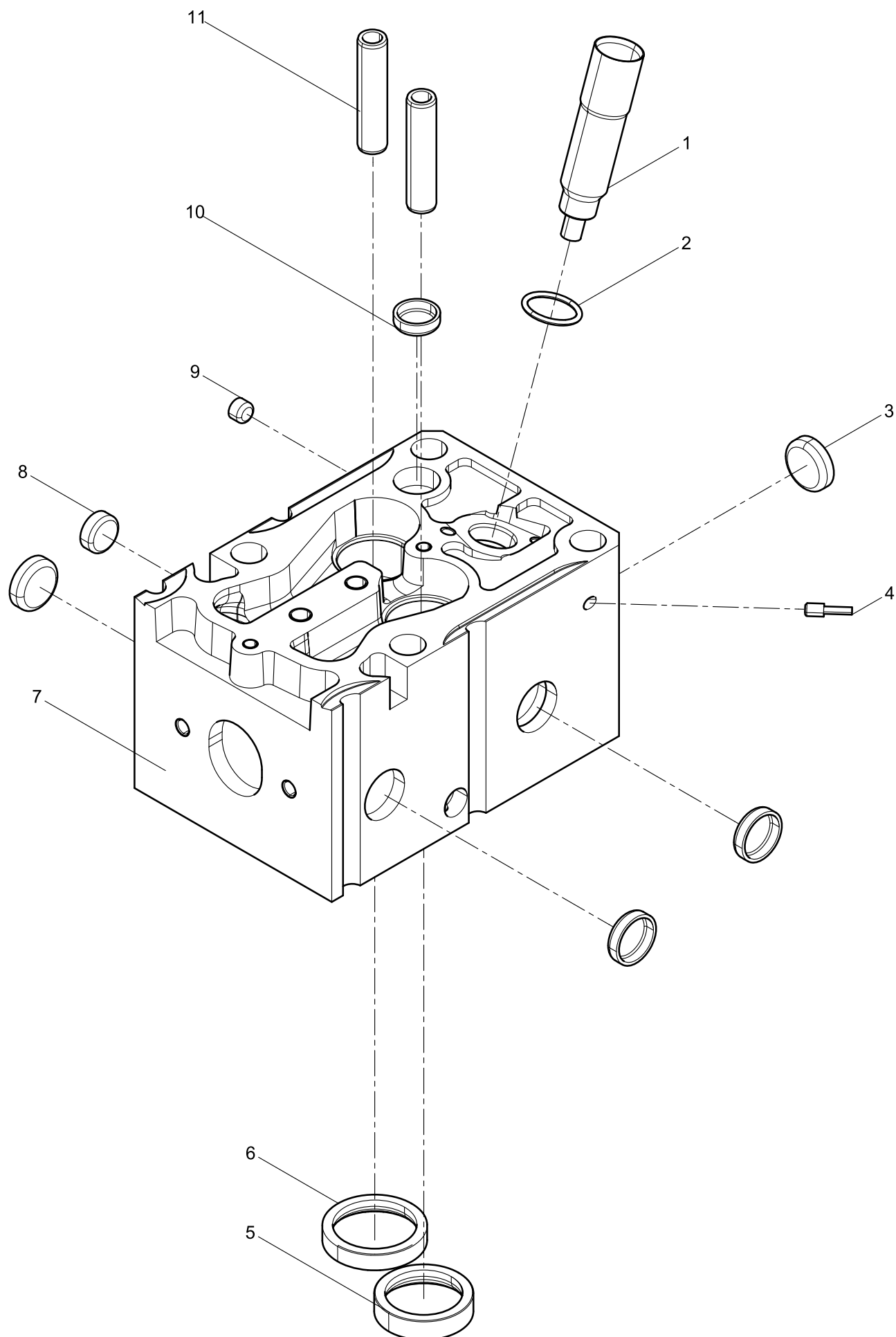
气缸盖结合组(Cylinder head assembly)



气缸盖结合组(Cylinder head assembly)

[illegible]

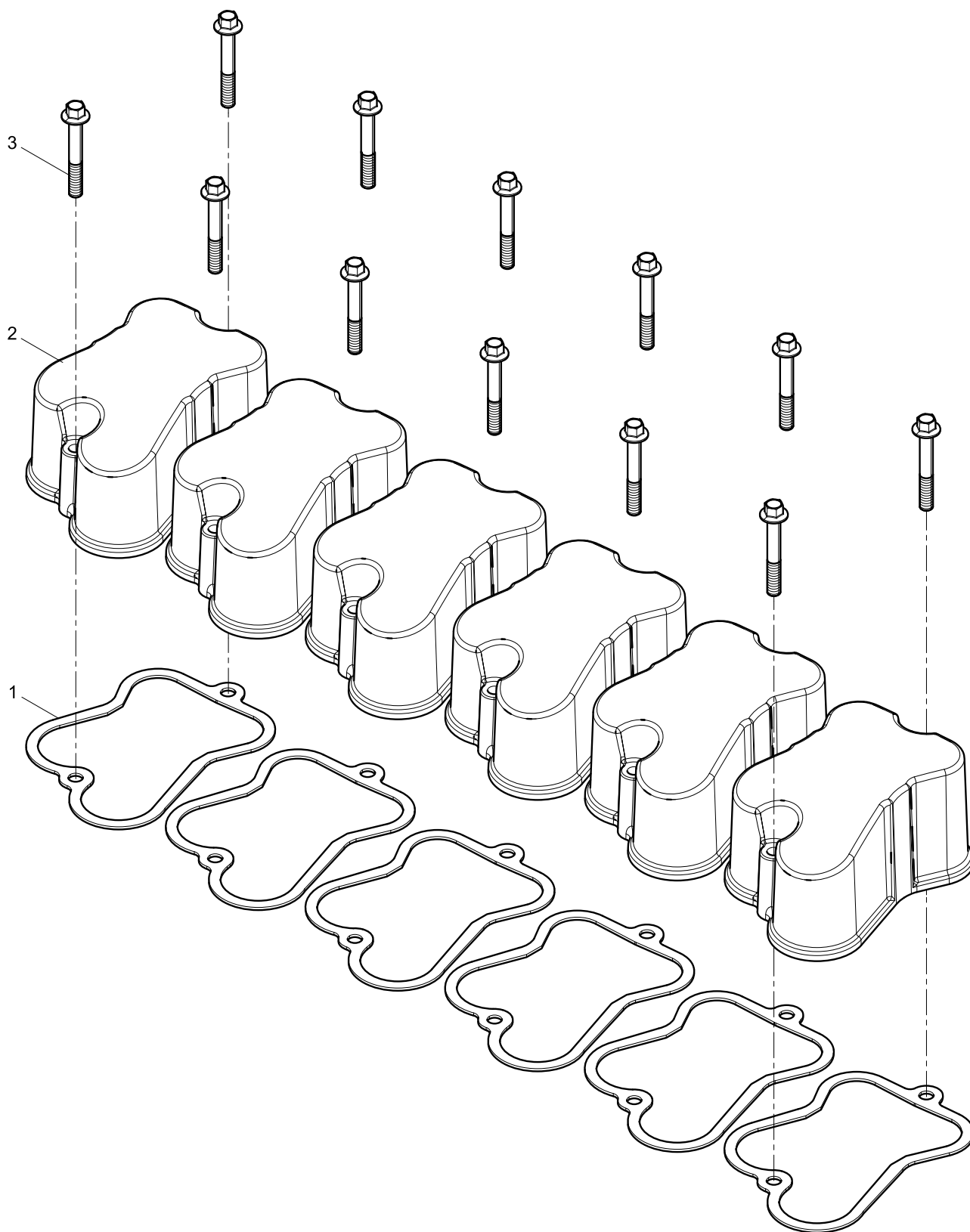
气缸盖分总成(Cylinder head subassembly)



气缸盖分总成(Cylinder head subassembly)

[illegible]

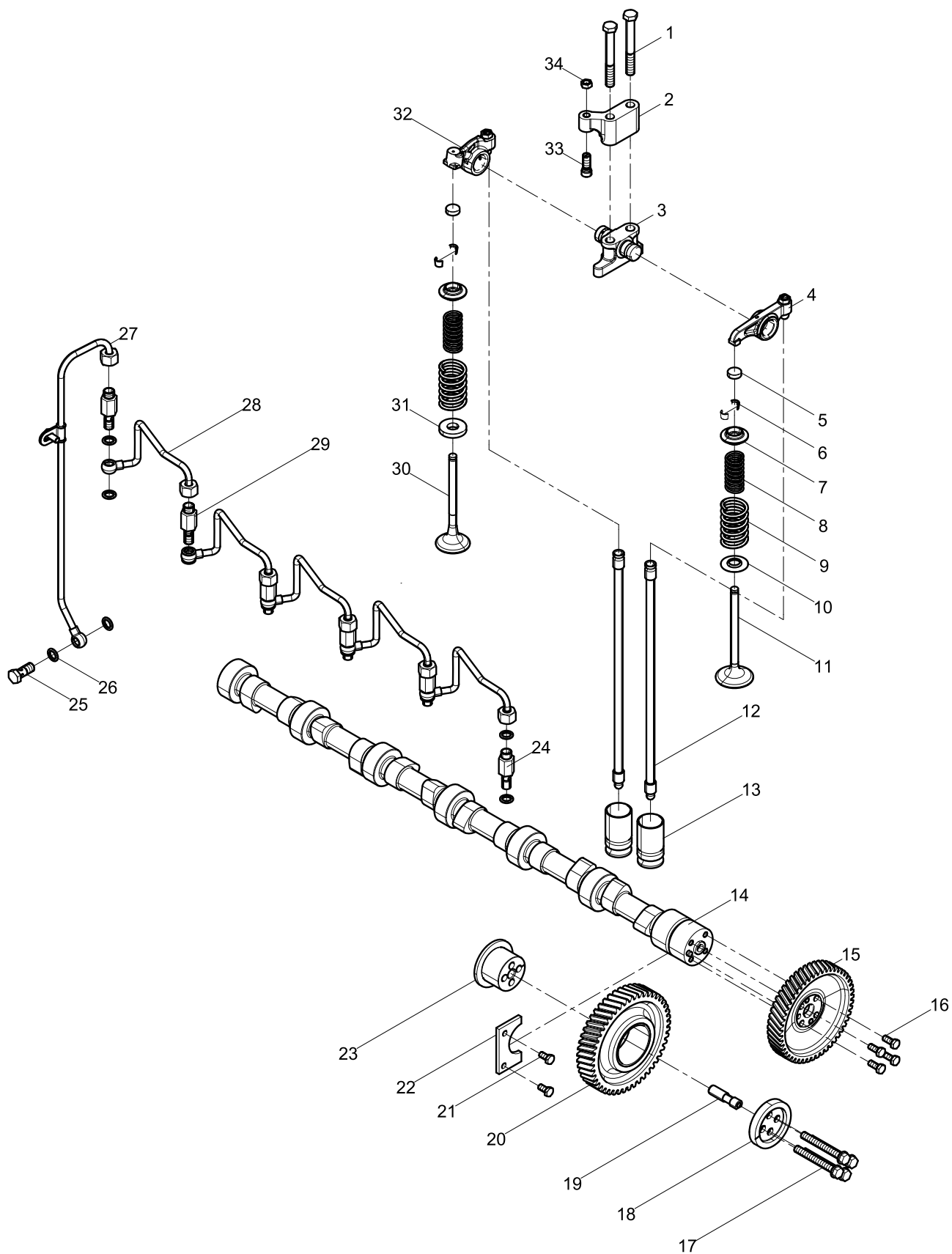
气缸盖罩结合组(Cylinder Head Cover Group)



气缸盖罩结合组(Cylinder Head Cover Group)

[illegible]

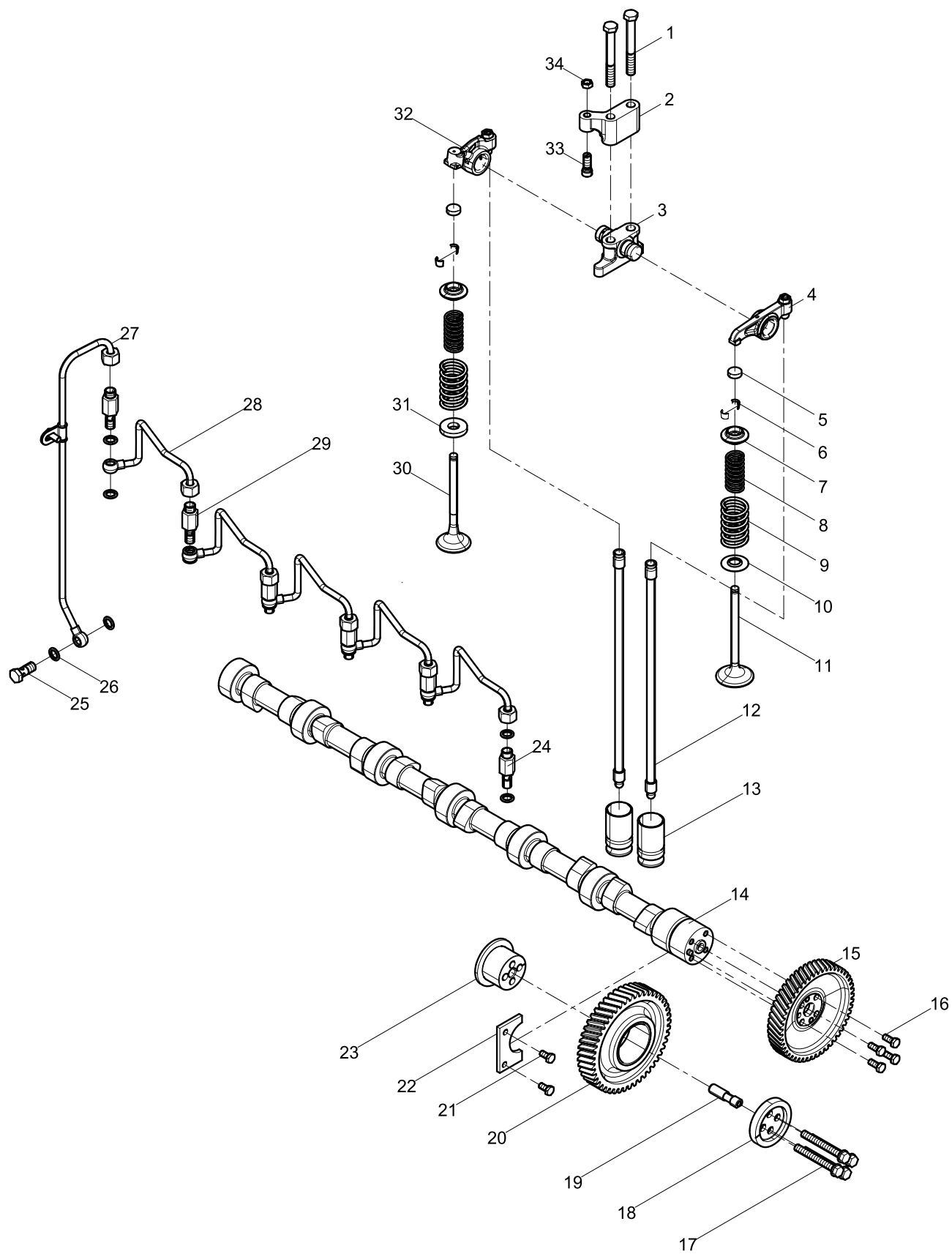
配气机构结合组(Valve Train Group)



配气机构结合组(Valve Train Group)

图序号 Pos.	件号 Teile.Number	数量 Amount	中文名称 Denomination	英文名称 Designation
1	90011350067	12	六角头螺栓	Hexagon bolt
2	612600050028	6	支撑臂	Carrying arm
3	612600050027	6	气门摇臂座总成	Valve rocker arm seat assembly
4	612600050177	6	进气门摇臂总成	Intake valve rocker arm
5	61500050105	12	气门帽	Valve cap
6	61500050025	24	气门锁夹	Valve collet
7	61500050109	12	气门弹簧上座	Valve spring seat (upper)
8	61500050001	12	气门内弹簧	Inner valve spring
9	61500050002	12	气门外弹簧	Outer valve spring
10	614050017	6	进气门弹簧下座	Intake valve spring seat (lower)
11	612600050073	6	进气门	Intake valve
12	612600050214	12	推杆	Push rod
13	61500050032	12	气门挺柱	Tappet
14	612600050087	1	凸轮轴总成	Camshaft assembly
15	61800050144	1	凸轮轴齿轮	Camshaft gear
16	612600050145S	4	六角头螺栓	Hexagon bolt
17	61560050059S	4	六角头螺栓	Hexagon bolt
18	61560050045	1	垫片	Gasket
19	61560050058	1	轴	Shaft
20	61800050098	1	中间齿轮总成	Intermediate gear assembly
21	90003802399S	2	六角头螺栓	Hexagon bolt
22	614050133	1	凸轮轴止推片	Camshaft thrust
23	61560050044	1	中间齿轮轴	Intermediate gear shaft
24	612600050041	1	螺纹接头	Screw joint
25	612600050039	1	空心螺栓	Hollow bolt
26	612600050042	13	密封垫圈	Seal washer
27	612600050161	1	EVb进油长管	EVb fuel inlet pipe assembly (long)

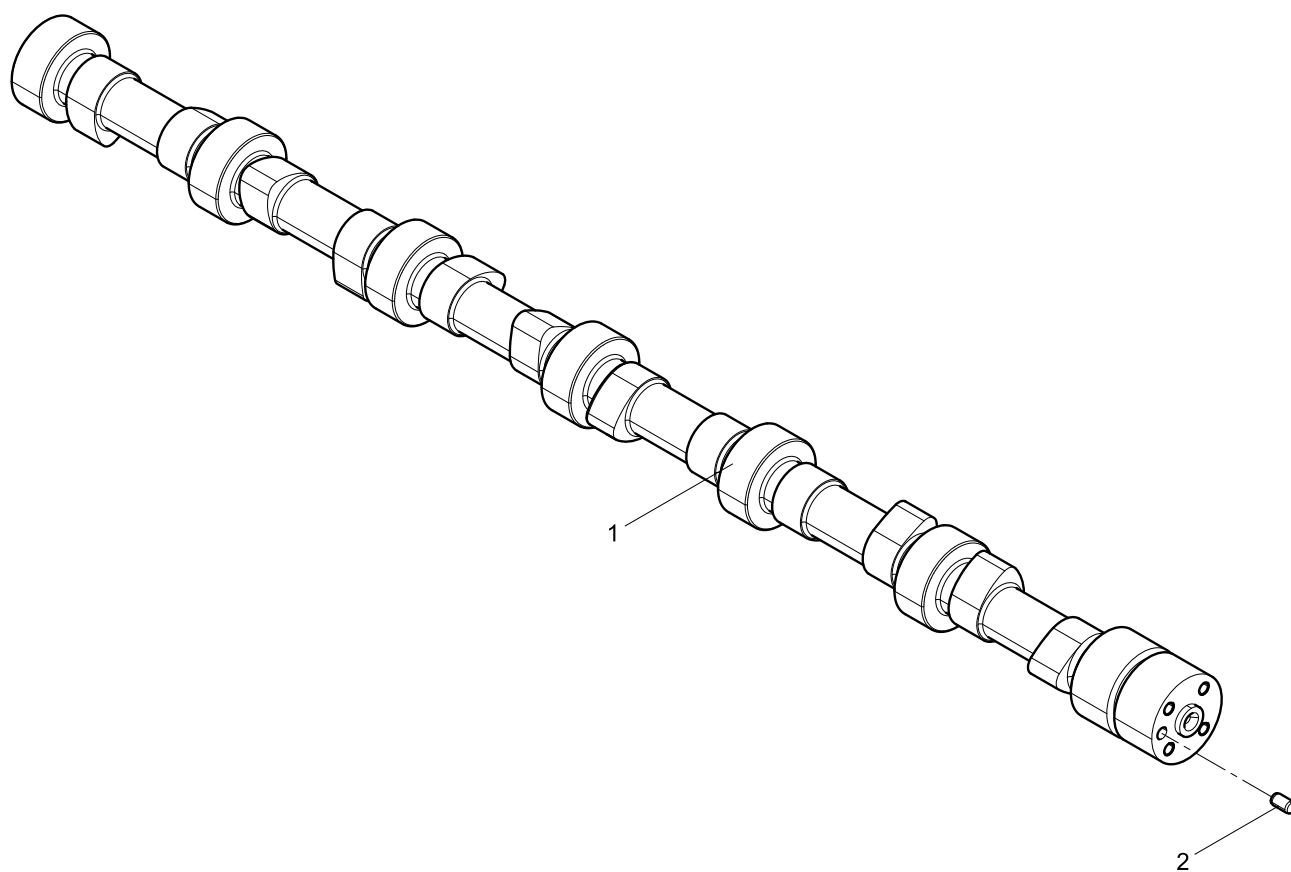
配气机构结合组(Valve Train Group)



配气机构结合组(Valve Train Group)

[illegible]

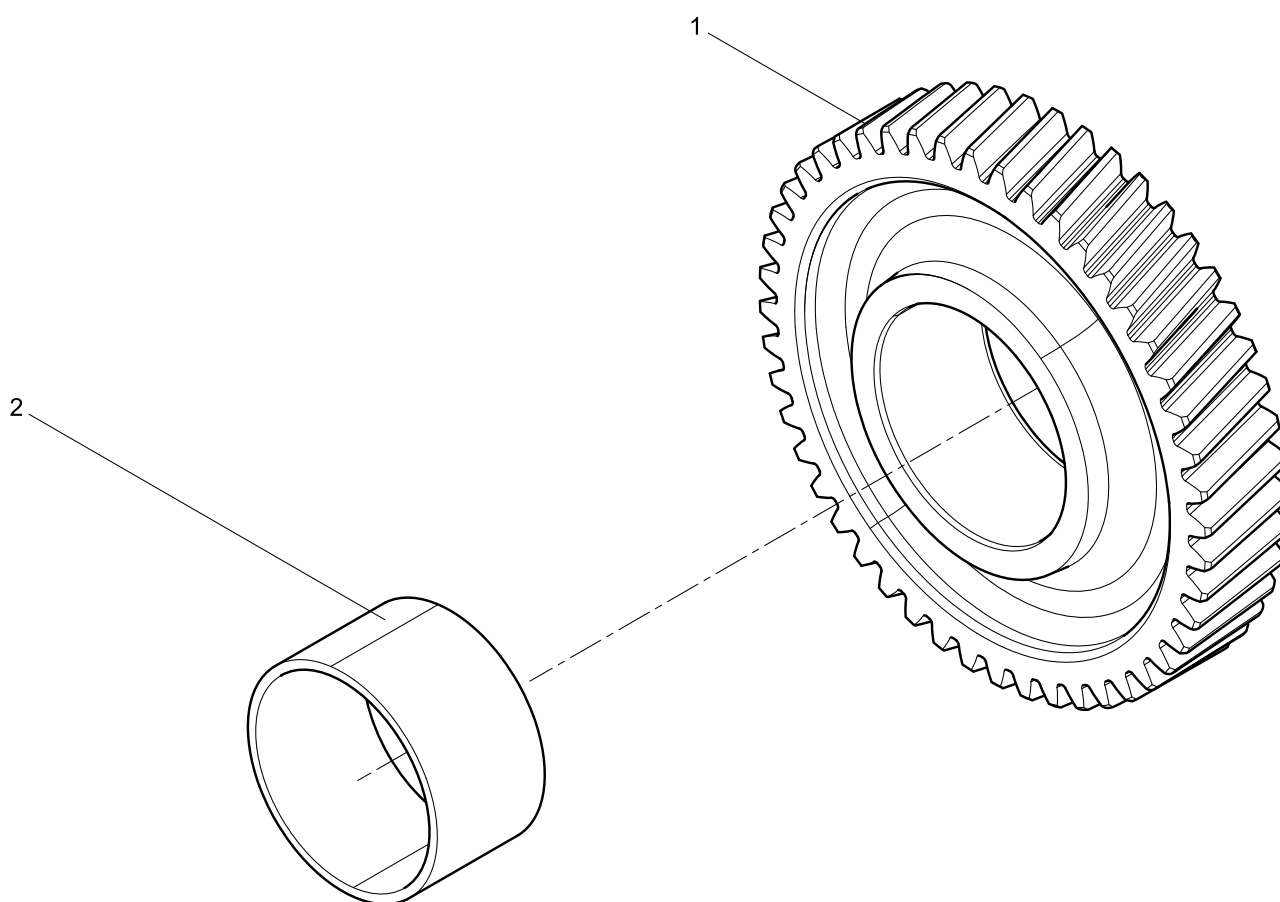
凸轮轴总成(Camshaft assembly)



凸轮轴总成(Camshaft assembly)

[illegible]

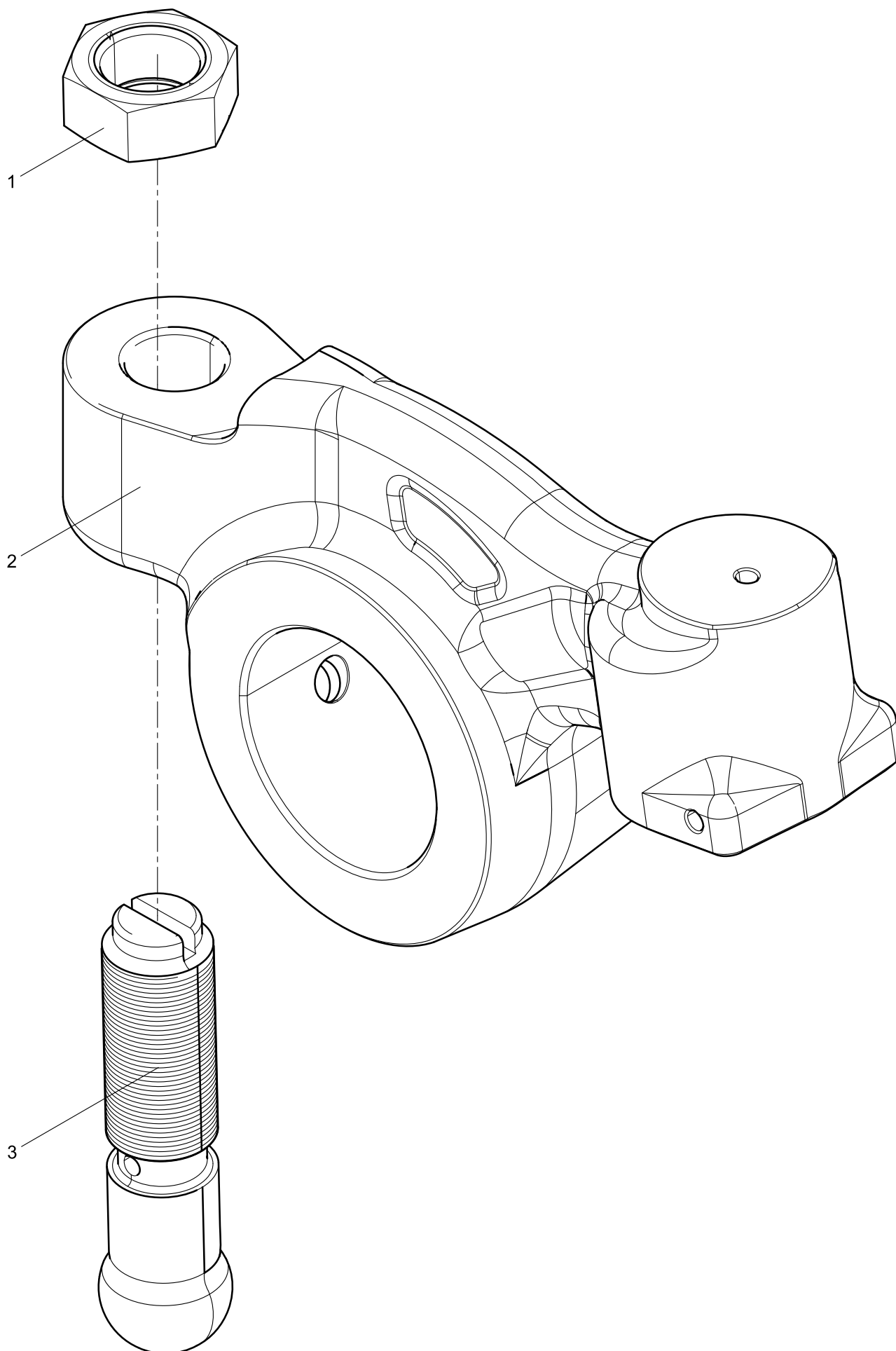
中间齿轮总成(Intermediate gear assembly)



中间齿轮总成(Intermediate gear assembly)

[illegible]

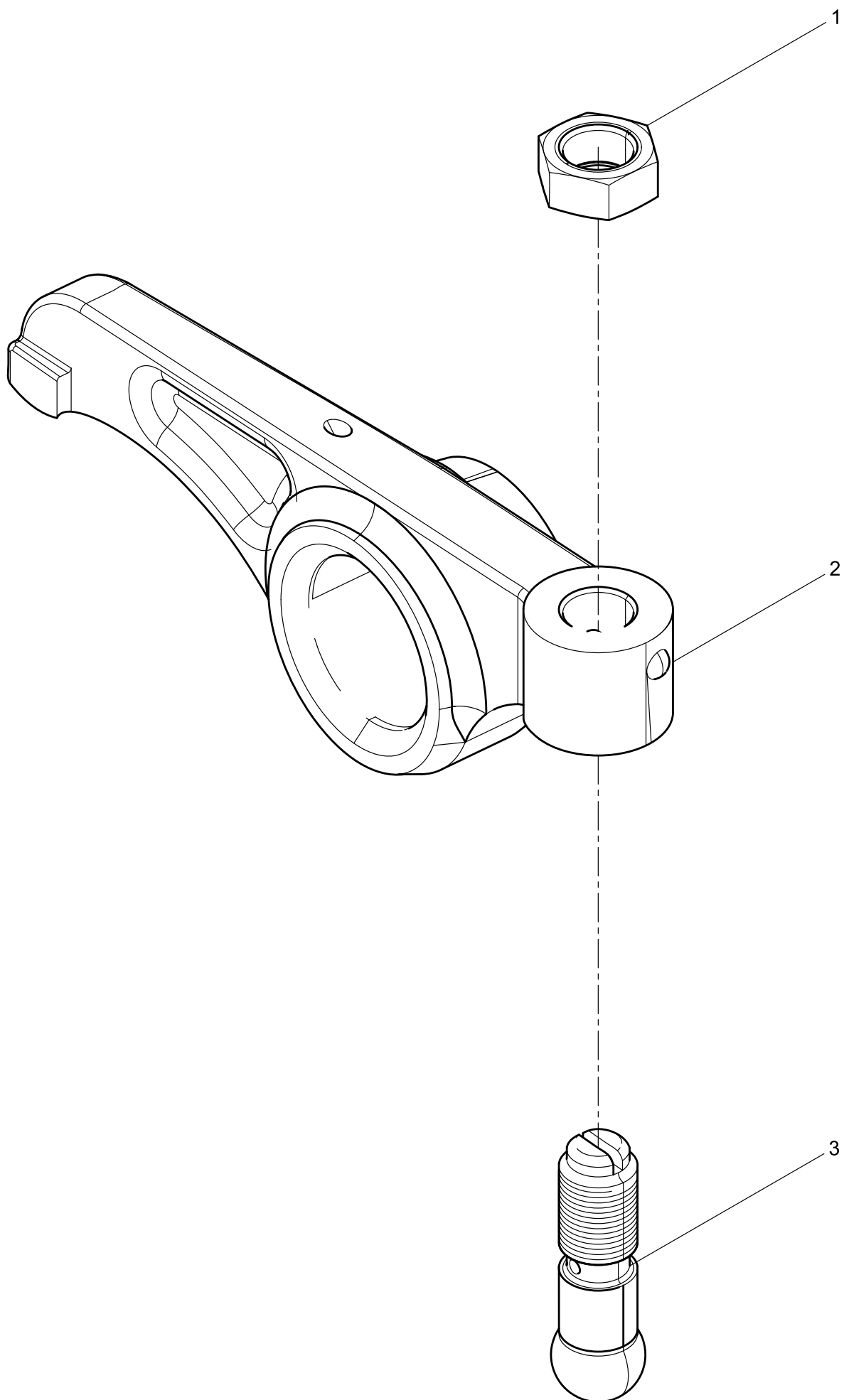
EVB排气摇臂组件(EVB Exhaust Rocker Arm Set)



EVB排气摇臂组件(EVB Exhaust Rocker Arm Set)

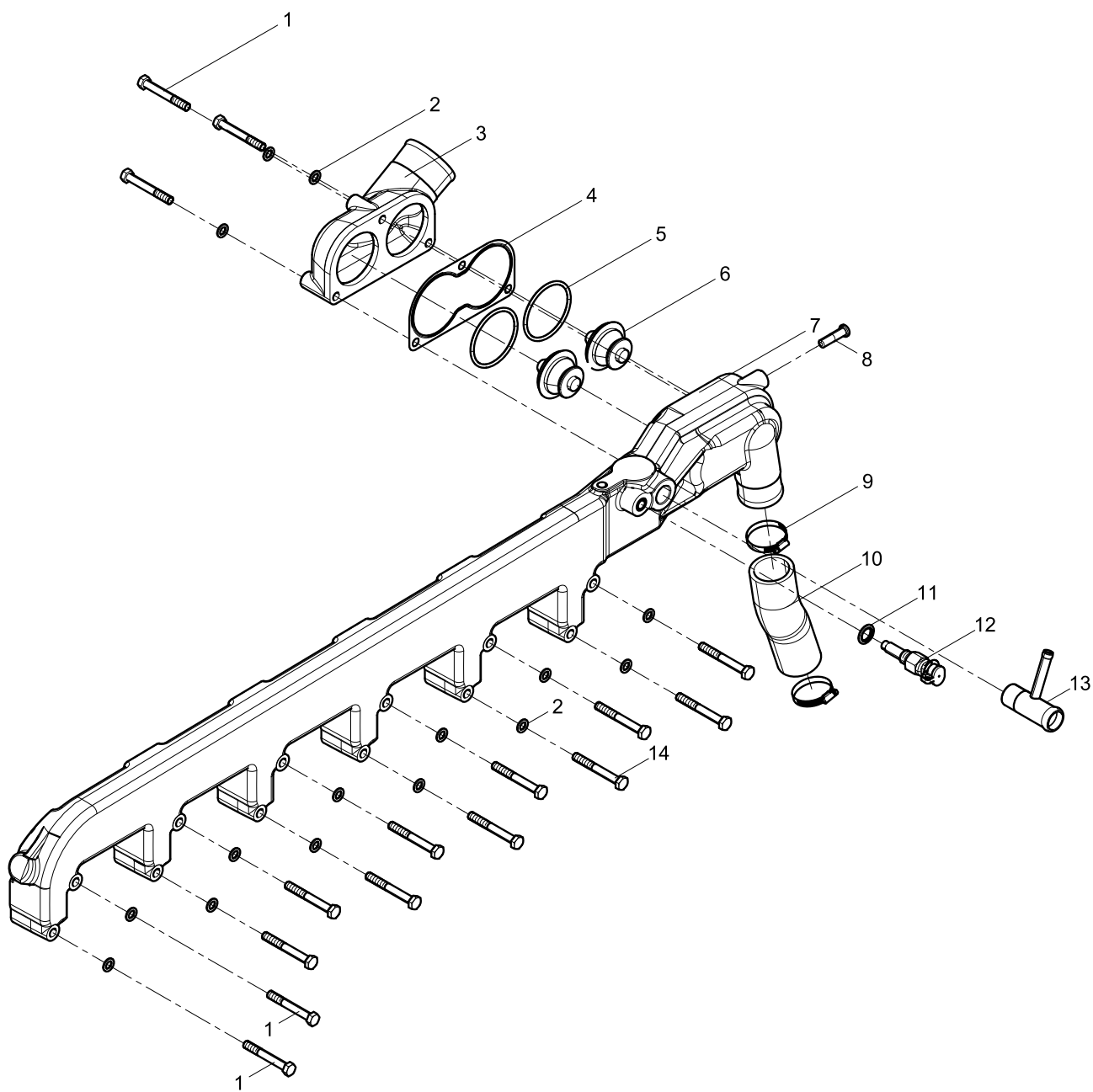
[illegible]

进气门摇臂总成(Intake valve rocker arm)



进气门摇臂总成(Intake valve rocker arm)

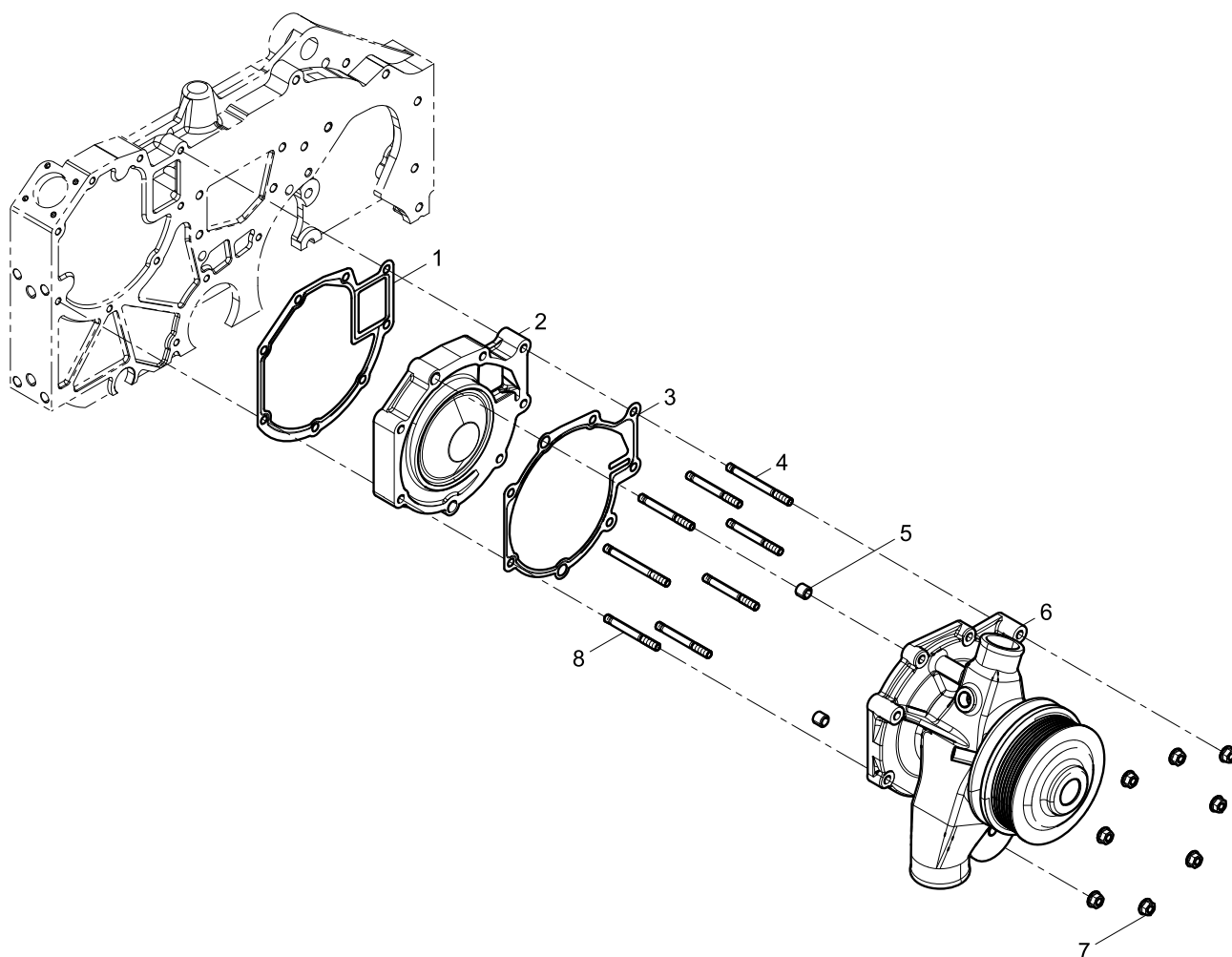
[illegible]



出水管结合组(Water Outlet Pipe Group)

[illegible]

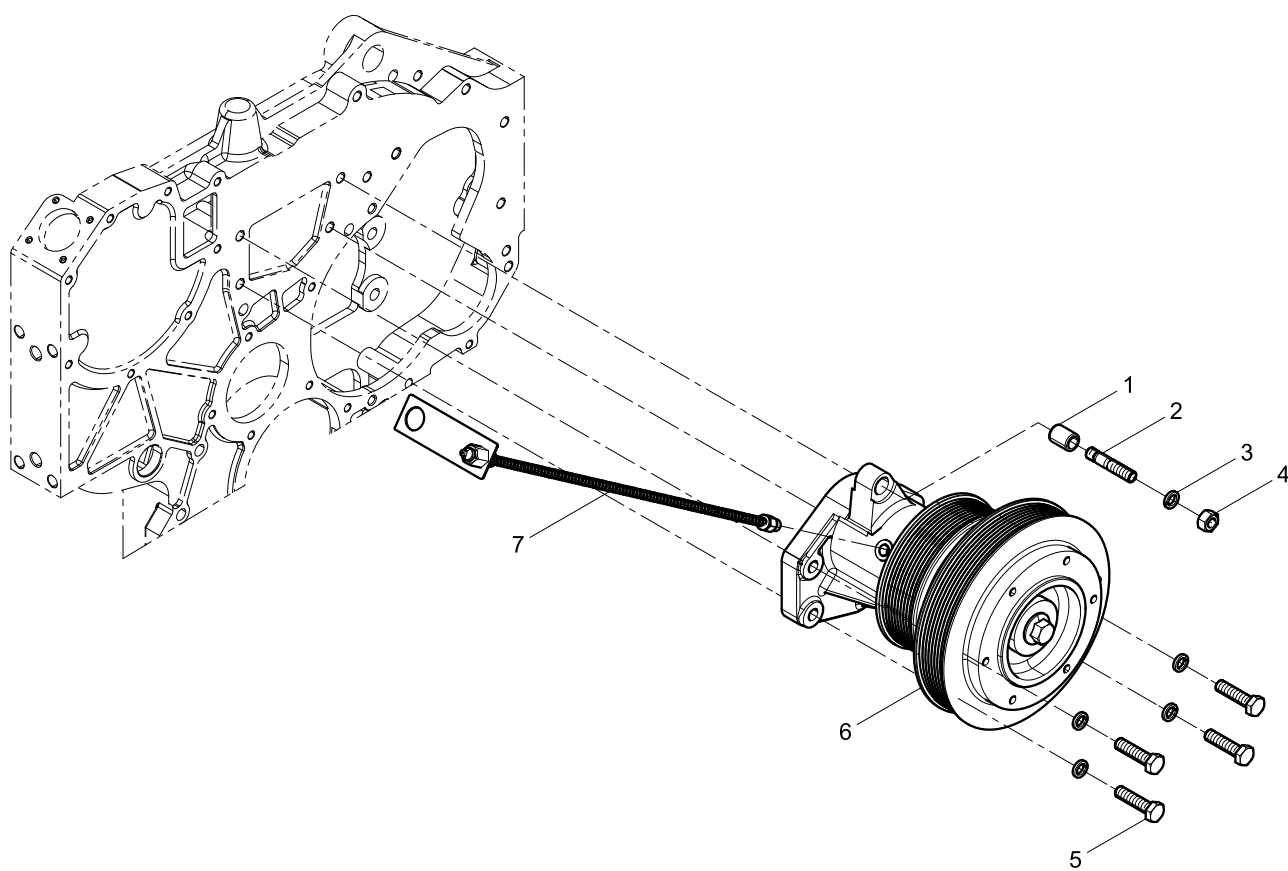
水泵结合组(Water pump assembly)



水泵结合组(Water pump assembly)

[illegible]

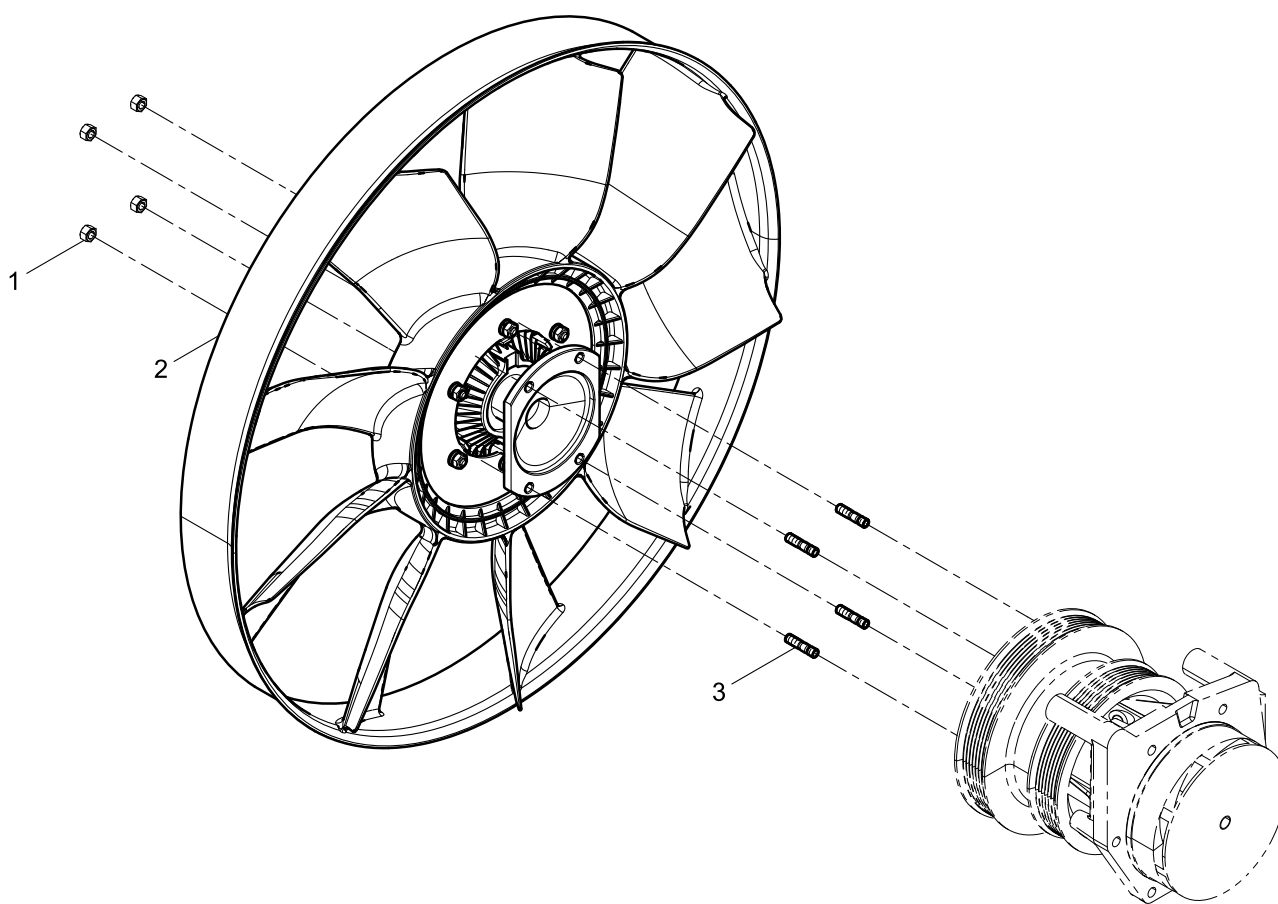
风扇托架结合组(Fan Bracket Group)



风扇托架结合组(Fan Bracket Group)

[illegible]

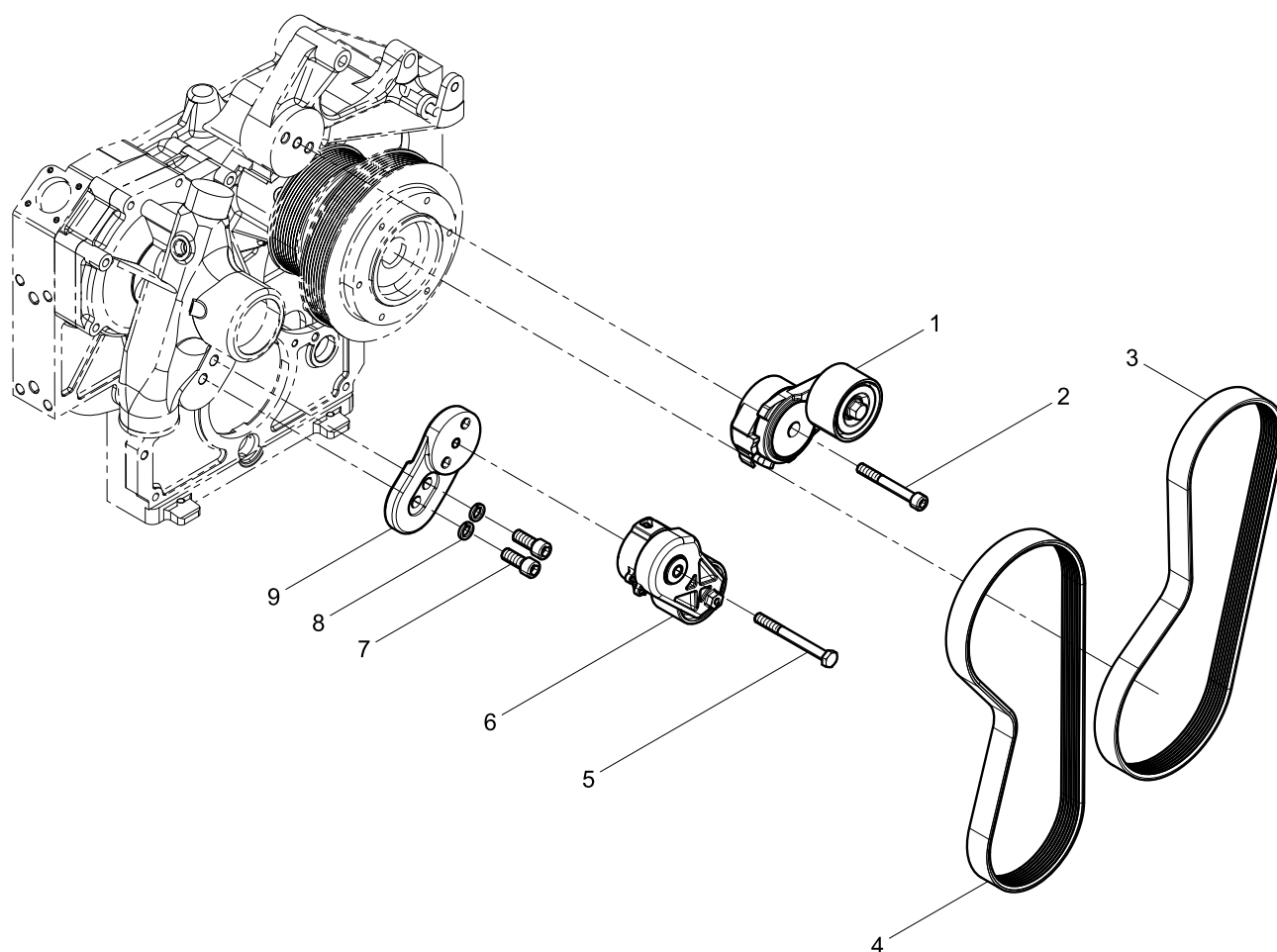
风扇及轮毂结合组(Fan and Hub Group)



风扇及轮毂结合组(Fan and Hub Group)

[illegible]

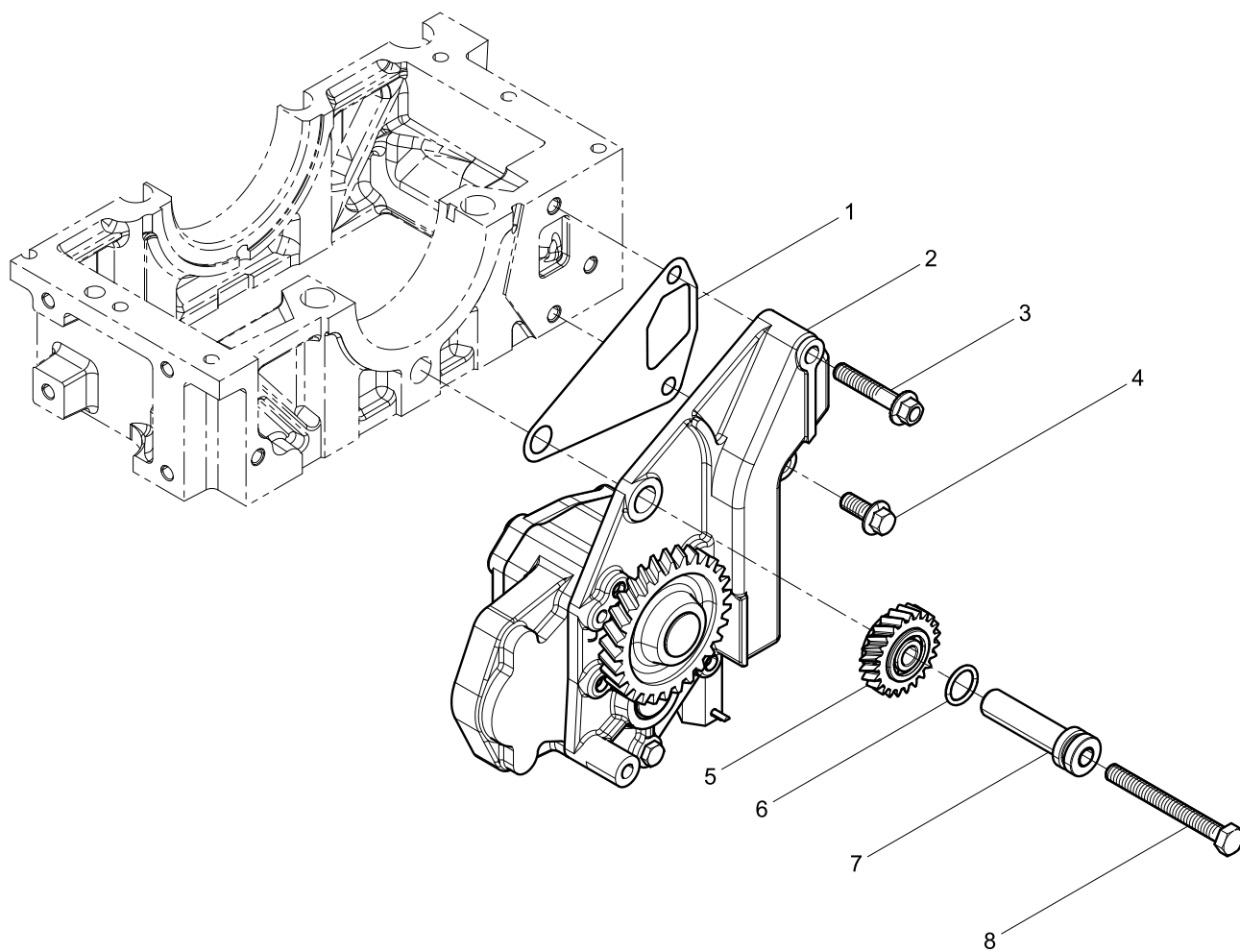
张紧轮及皮带结合组(Tensioner and Belt Assembly)



张紧轮及皮带结合组(Tensioner and Belt Assembly)

[illegible]

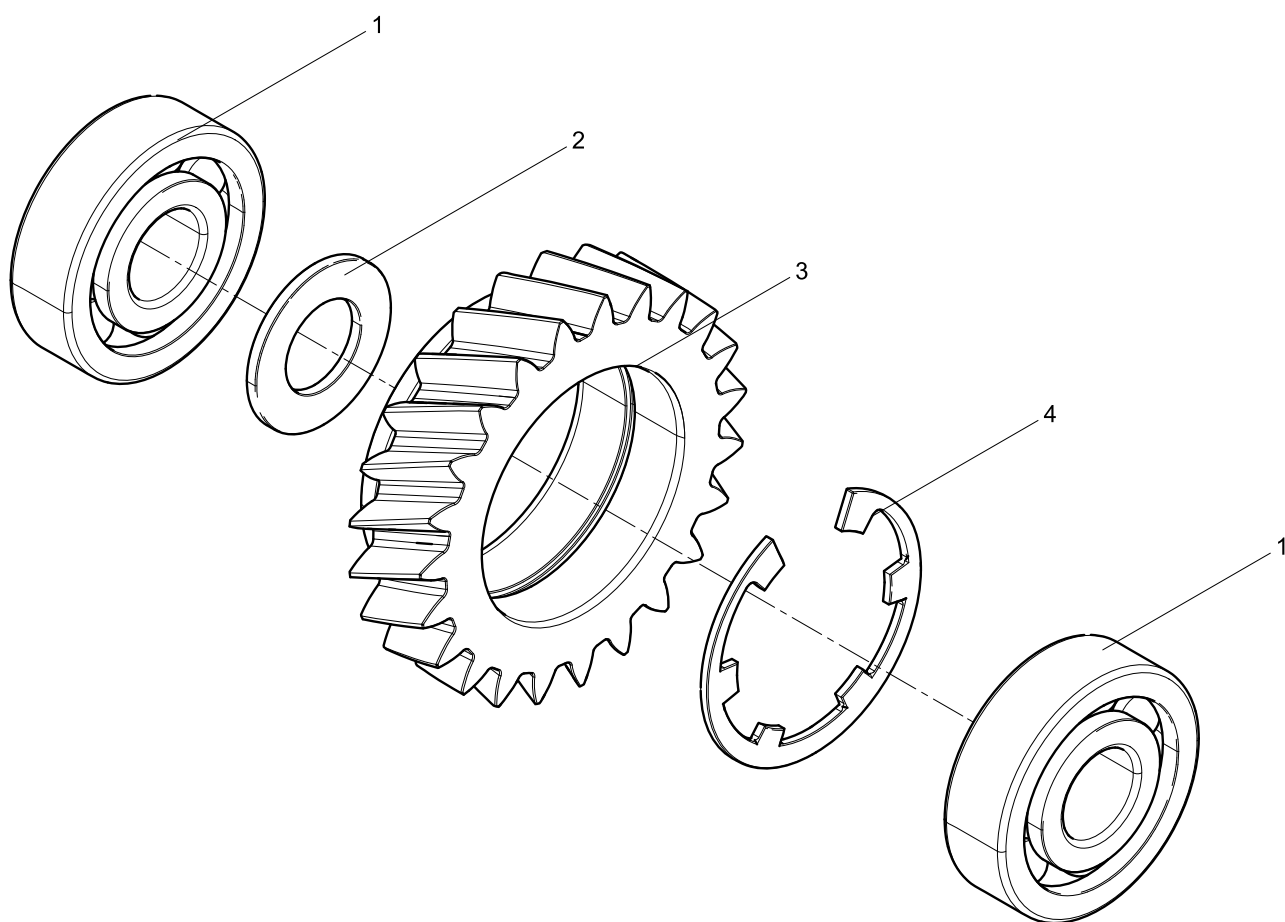
机油泵结合组(Oil pump assembly)



机油泵结合组(Oil pump assembly)

[illegible]

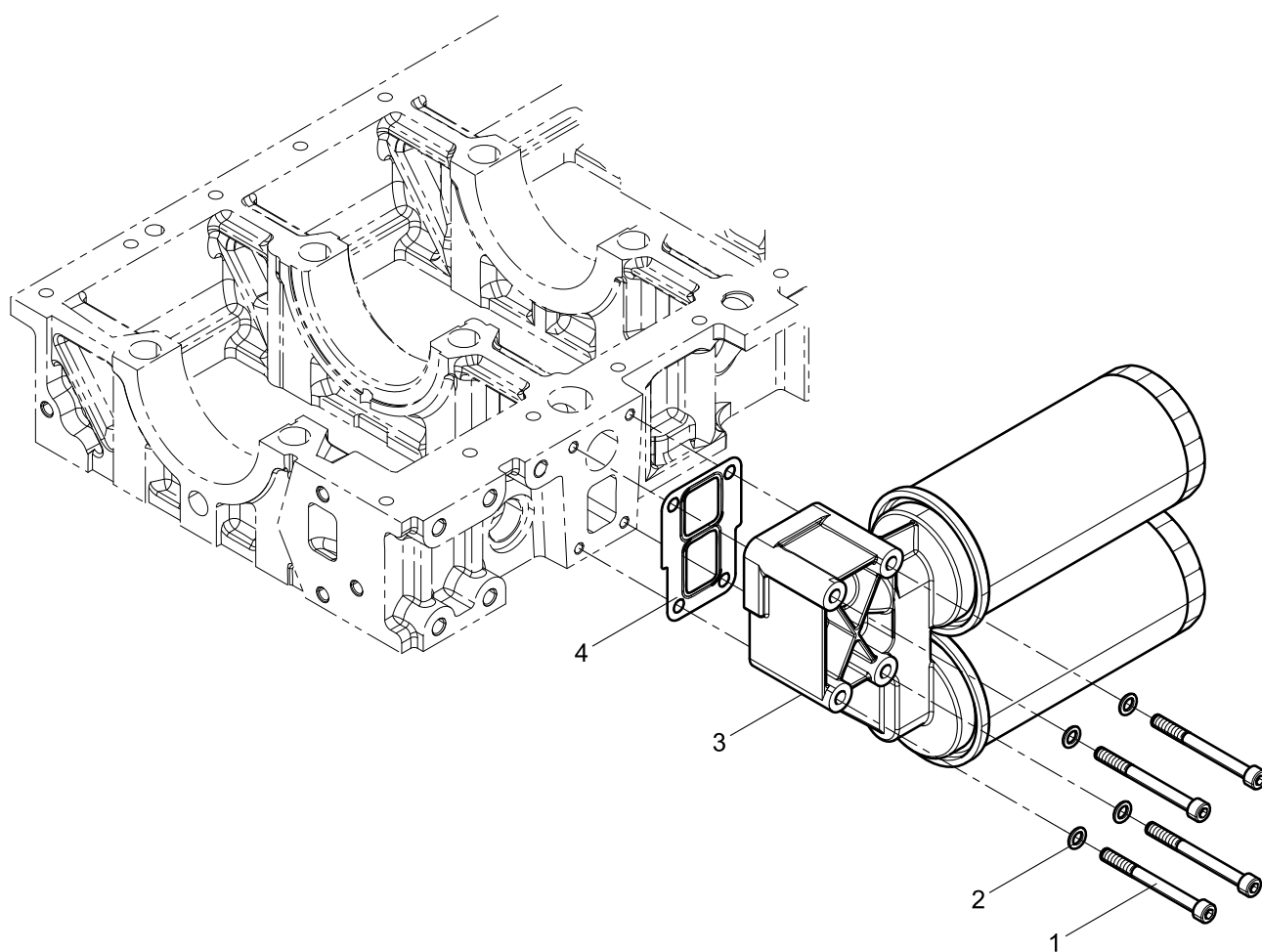
机油泵中间齿轮组件(Oil Pump Idle Gear Assembly)



机油泵中间齿轮组件(Oil Pump Idle Gear Assembly)

[illegible]

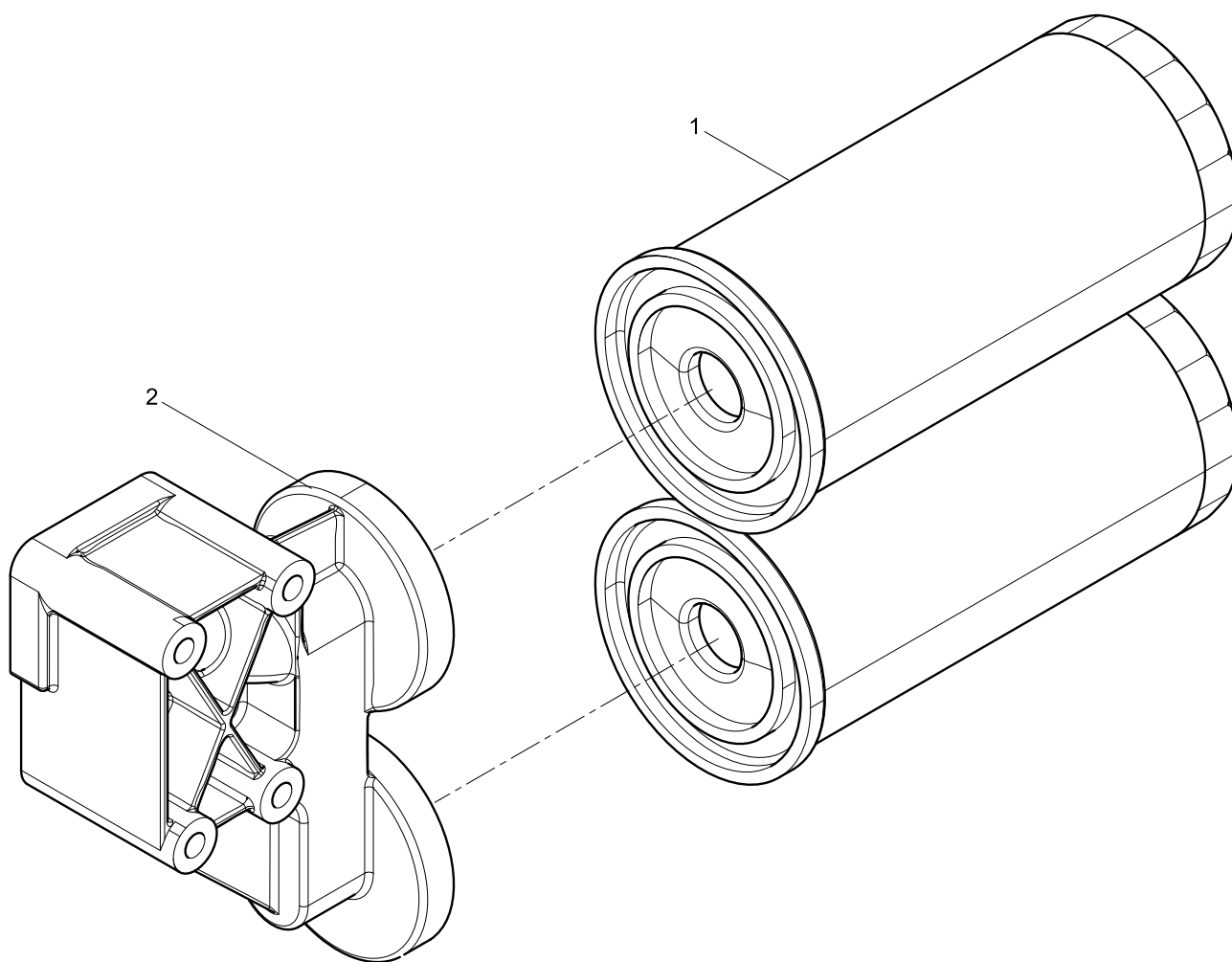
机油滤清器结合组(Oil filter assembly)



机油滤清器结合组(Oil filter assembly)

[illegible]

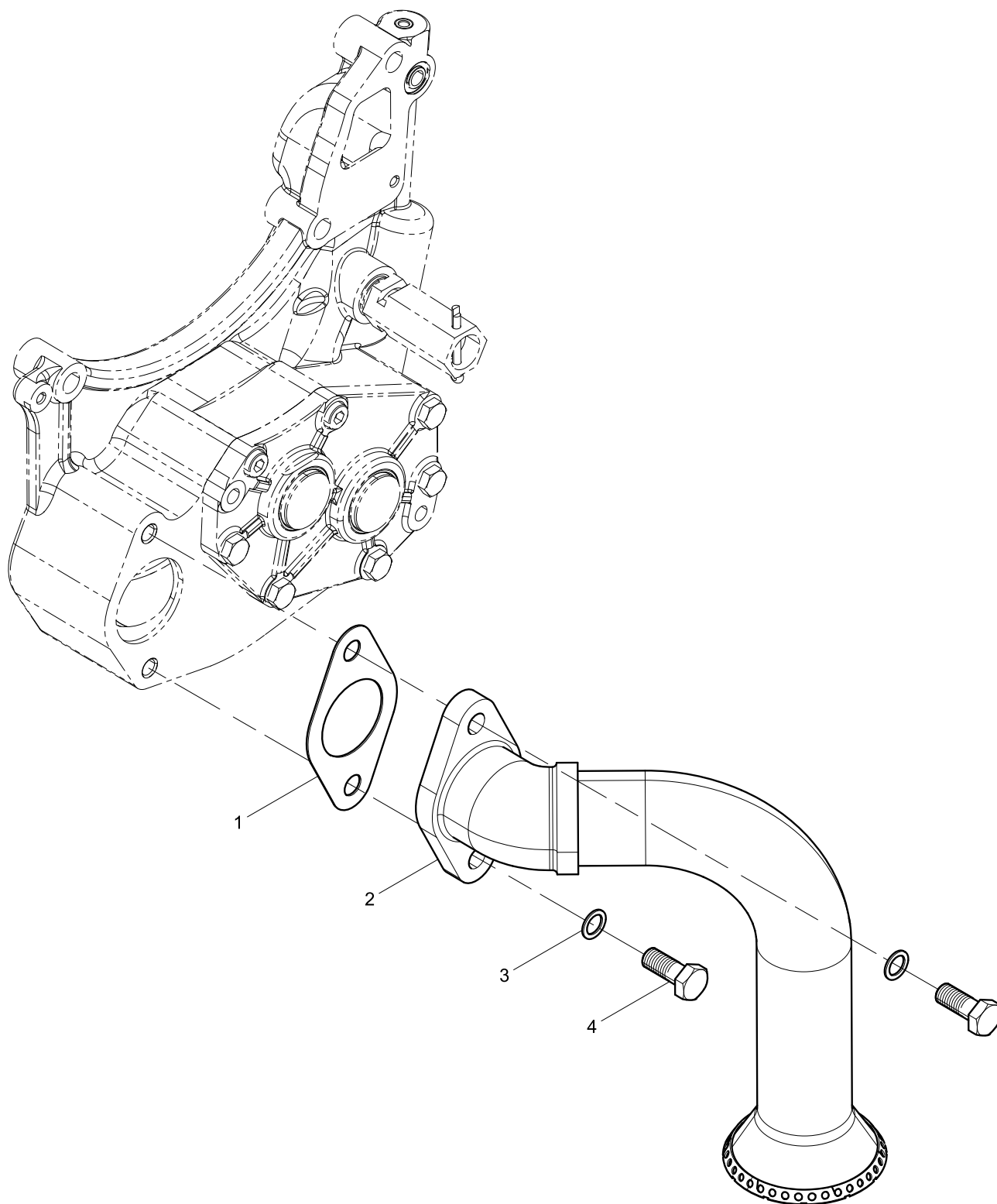
机油滤清器总成(Oil filter assembly)



机油滤清器总成(Oil filter assembly)

[illegible]

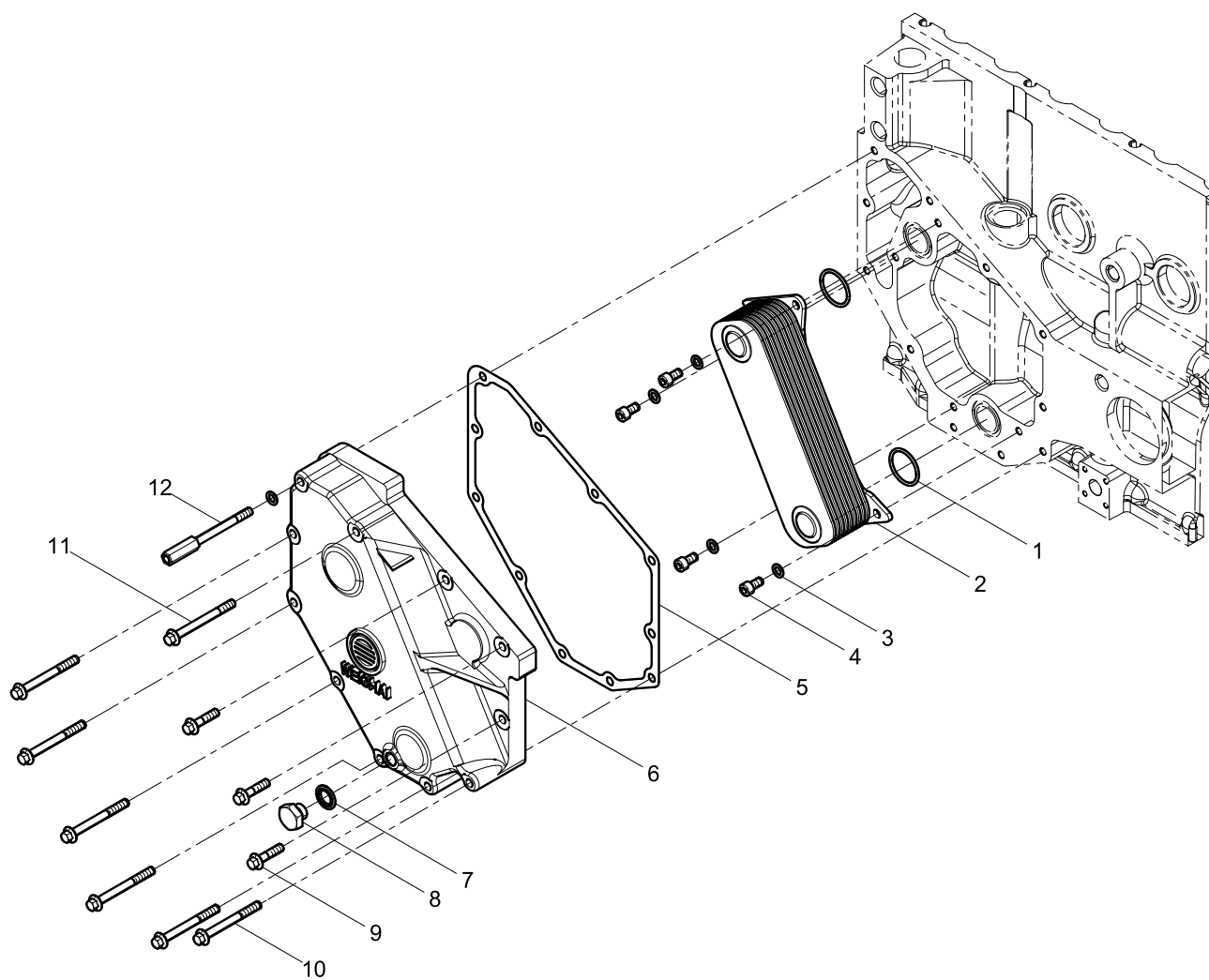
机油集滤器结合组(Oil Suction Strainer Group)



机油集滤器结合组(Oil Suction Strainer Group)

[illegible]

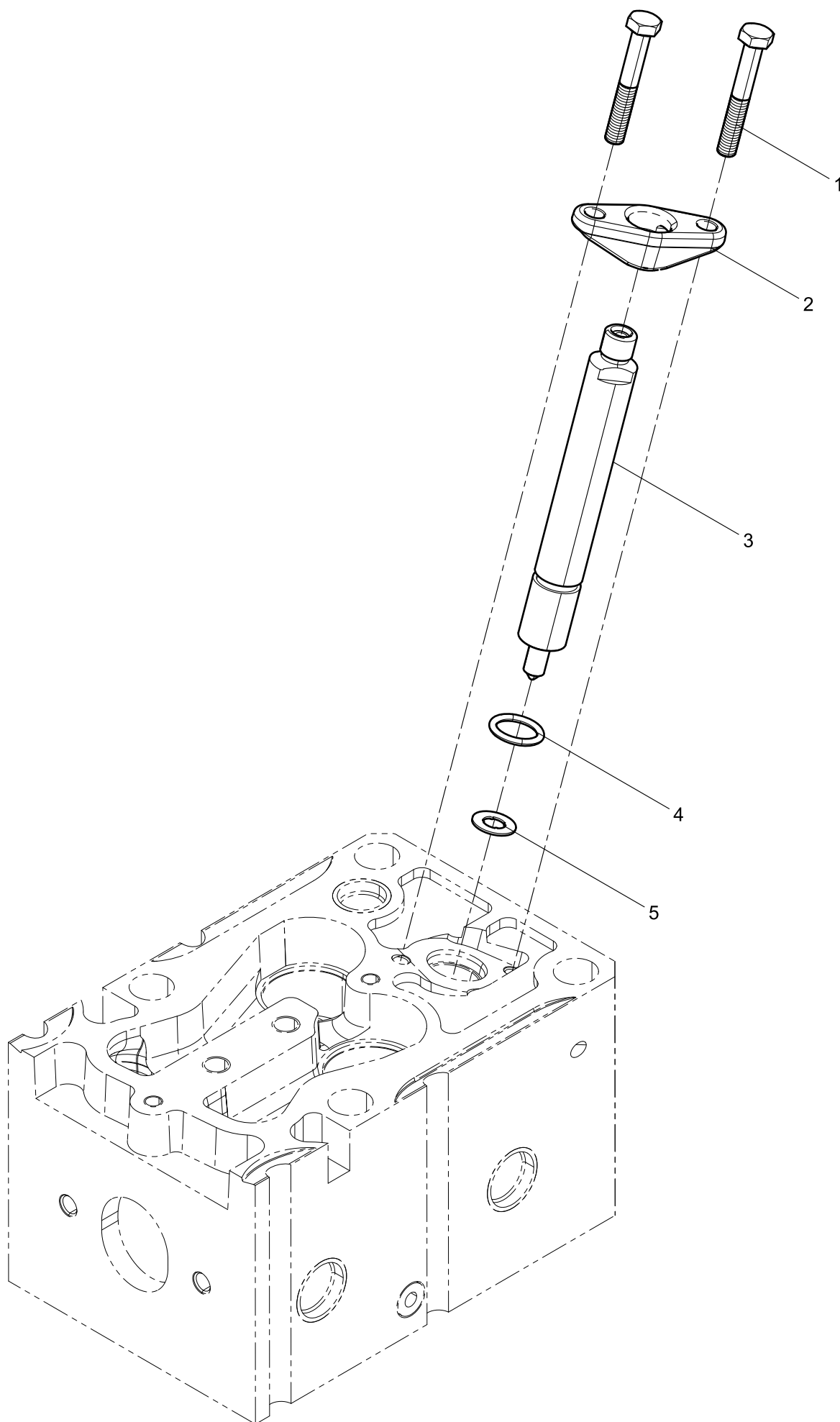
机油冷却器结合组(Oil cooler assembly)



机油冷却器结合组(Oil cooler assembly)

[illegible]

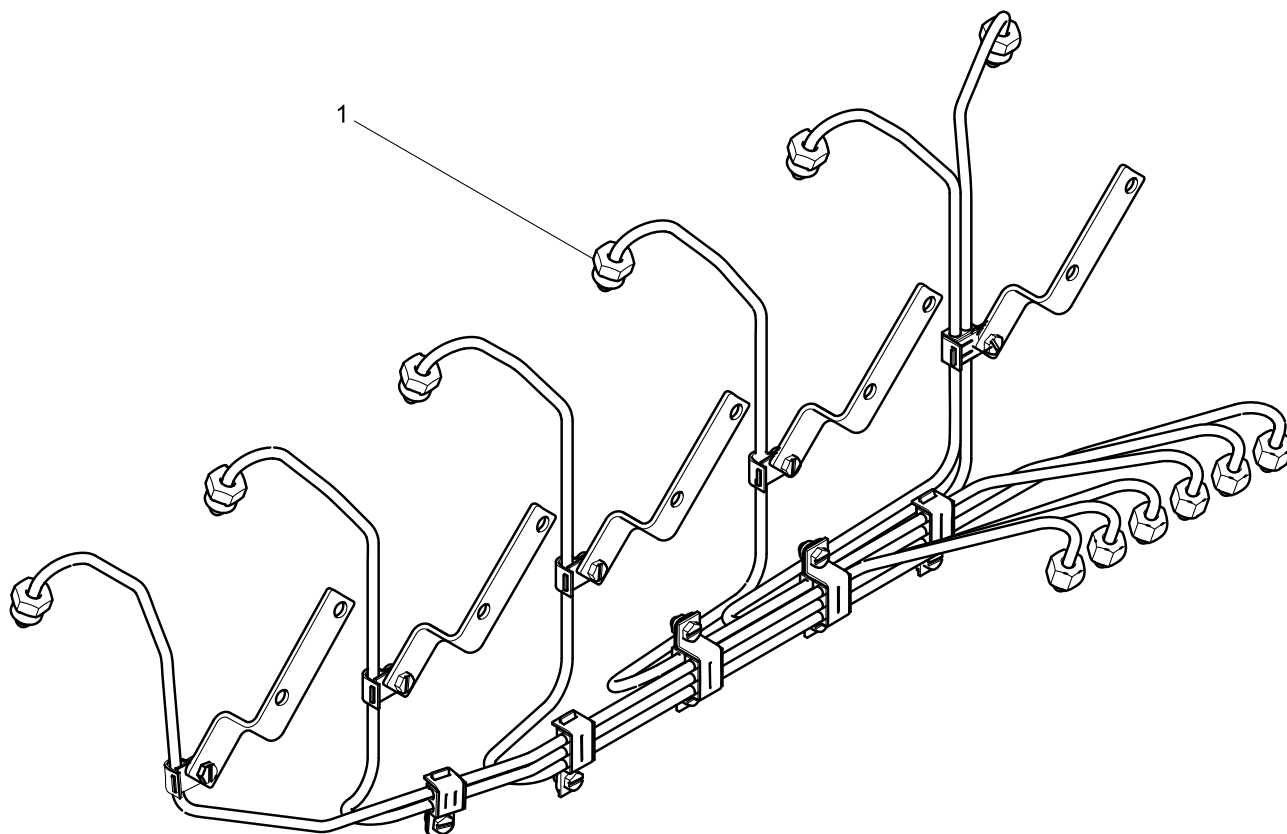
喷油器结合组(Injector assembly)



喷油器结合组(Injector assembly)

[illegible]

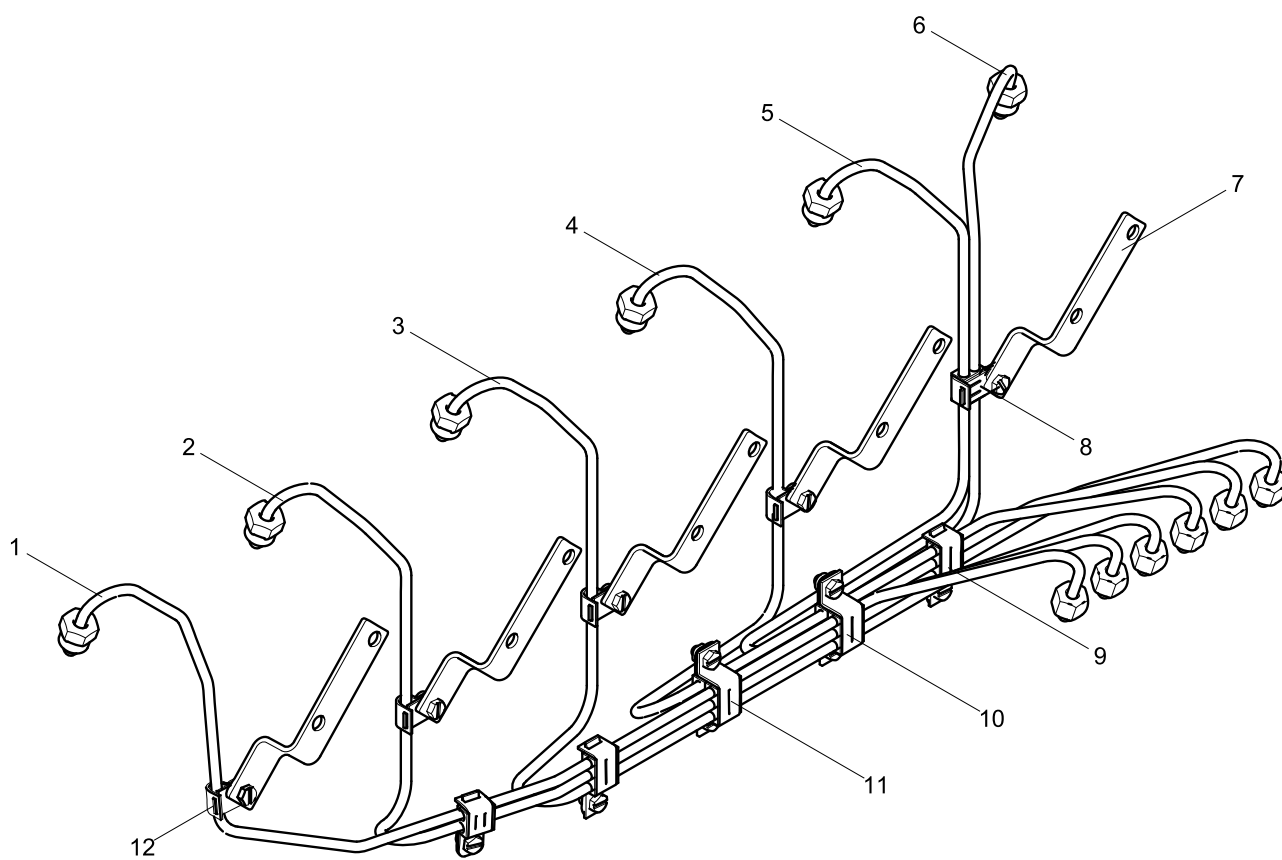
高压油管结合组(High Pressure Fuel Injection Pipe Group)



高压油管结合组(High Pressure Fuel Injection Pipe Group)

[illegible]

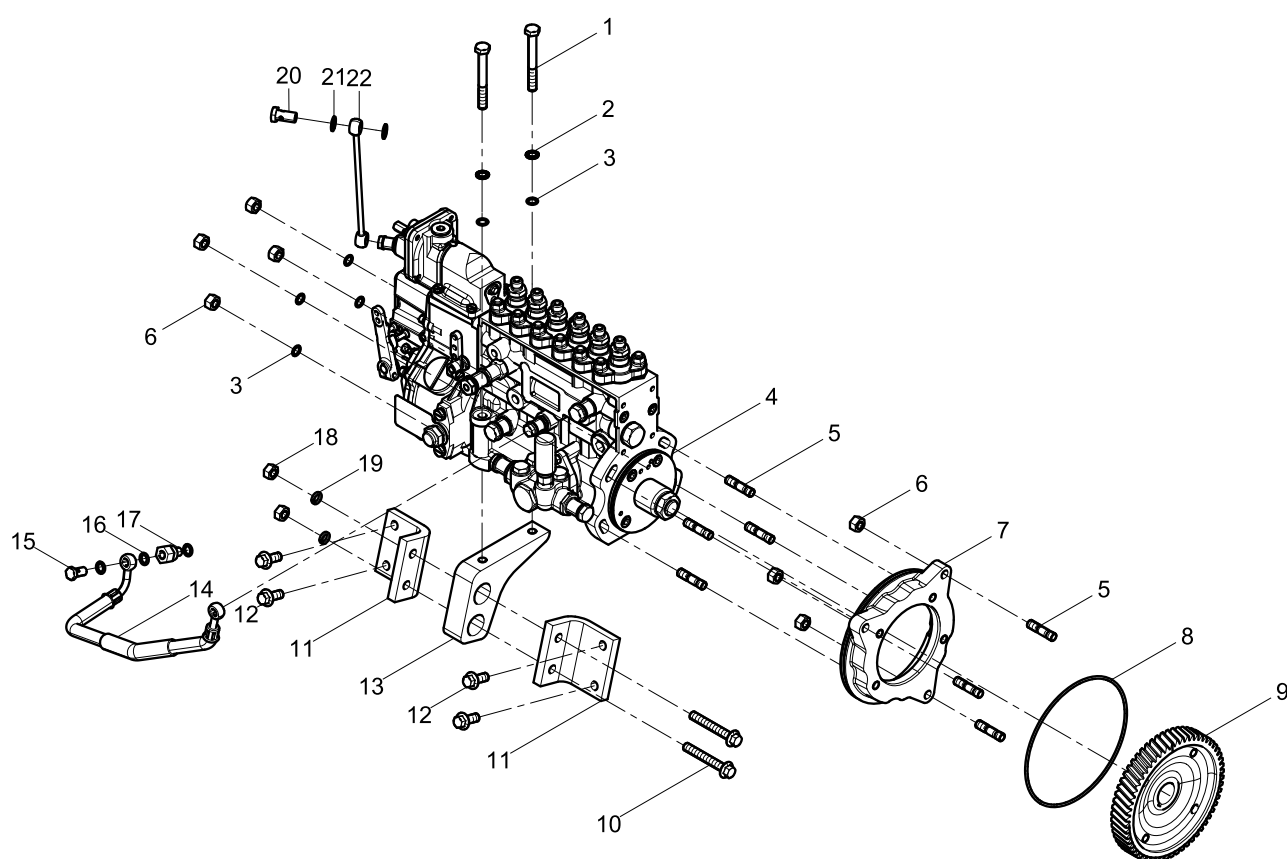
高压油管总成(High pressure pipe assembly)



高压油管总成(High pressure pipe assembly)

[illegible]

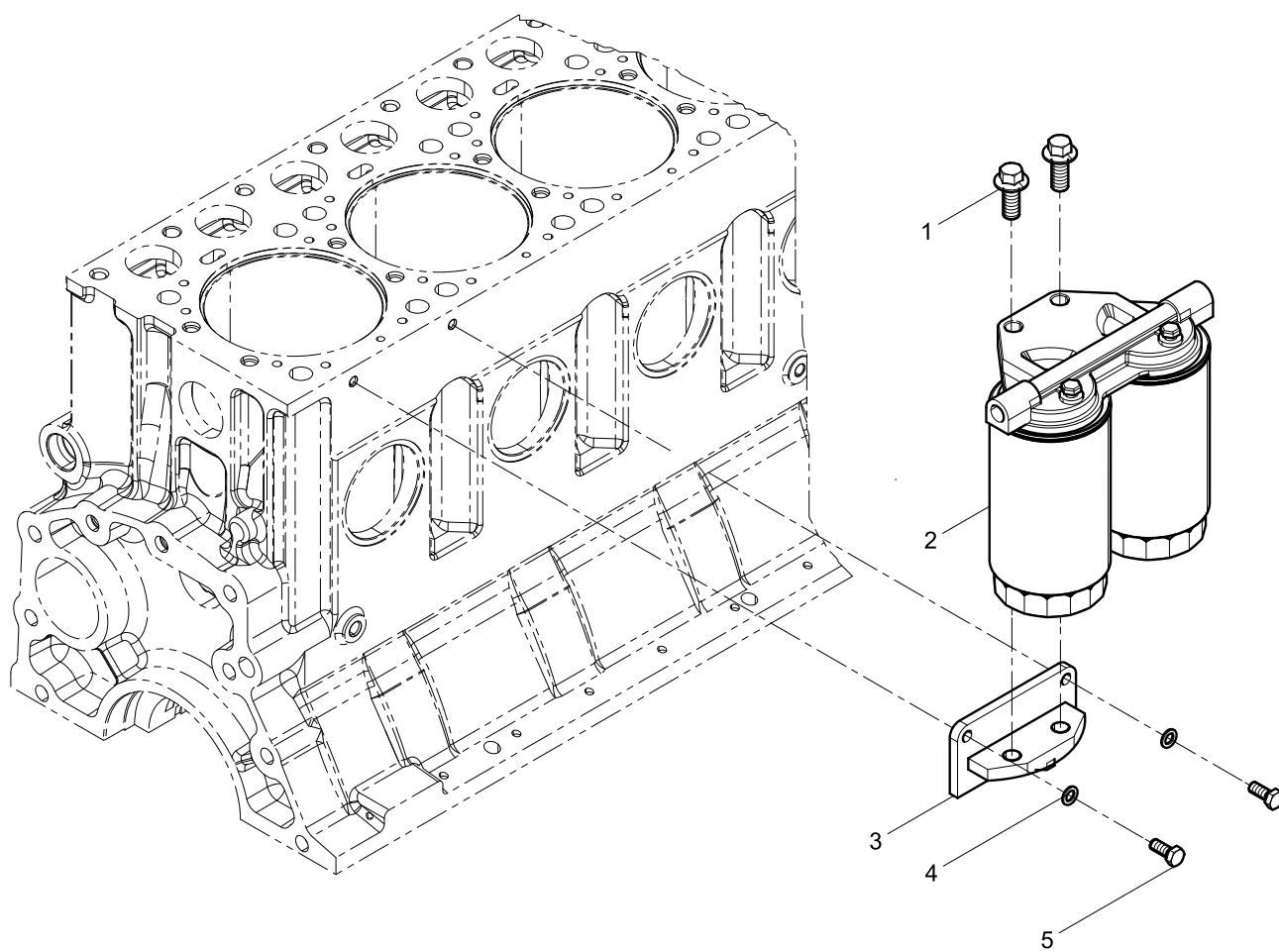
高压油泵结合组(High pressure pump assembly)



高压油泵结合组(High pressure pump assembly)

图序号 Pos.	件号 Teile.Number	数量 Amount	中文名称 Denomination	英文名称 Designation
1	90003800579	2	六角头螺栓	Hexagon bolt
2	18872339	2	自锁垫圈	Washer
3	90003930271	6	平垫圈	Flat washer
4	612601080396	1	喷油泵总成	Injection pump assembly
5	90003813532S	7	双头螺柱	Stud
6	90003888452	7	2型全金属六角锁紧螺母	Prevailing Torque Type All-metal Hexagon Nut,
7	612600081898	1	喷油泵法兰	Injection pump flange
8	90003120088	1	密封圈	Seal washer
9	612600081893	1	喷油泵齿轮	Injection pump gear
10	90011430013	2	六角法兰面承面带齿螺栓	Hexagon Flange Bolt
11	61800080040	2	角架	Bracket
12	90011430008	4	六角法兰面承面带齿螺栓	Hexagon Flange Bolt
13	61800080039	1	托架	Bracket
14	612600081470	1	润滑油进油管总成	Oil inlet pipe assembly
15	90003962607	1	空心螺栓	Hollow bolt
16	612600080246	3	密封垫圈	Seal washer
17	612600081573	1	润滑油管接头	
18	90003871305	2	1型六角螺母	Hexagon nut (I)
19	90003931122	2	弹簧垫圈	Spring washer
20	90003962612	1	空心螺栓	Hollow bolt
21	612600050042	2	密封垫圈	Seal washer
22	61560080159	1	空气管总成	Air pipe assembly

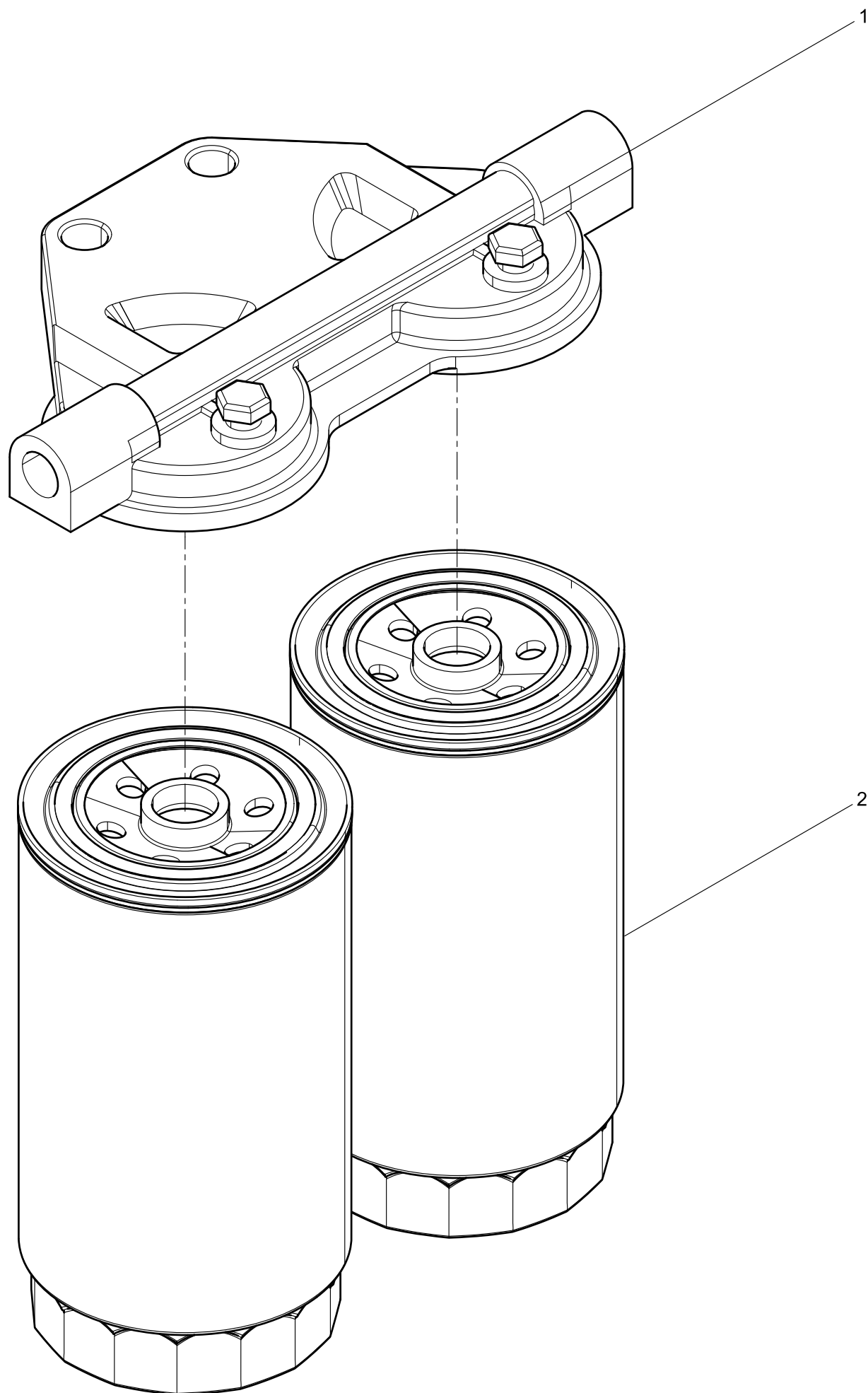
燃油滤清器结合组(Fuel Filter Group)



燃油滤清器结合组(Fuel Filter Group)

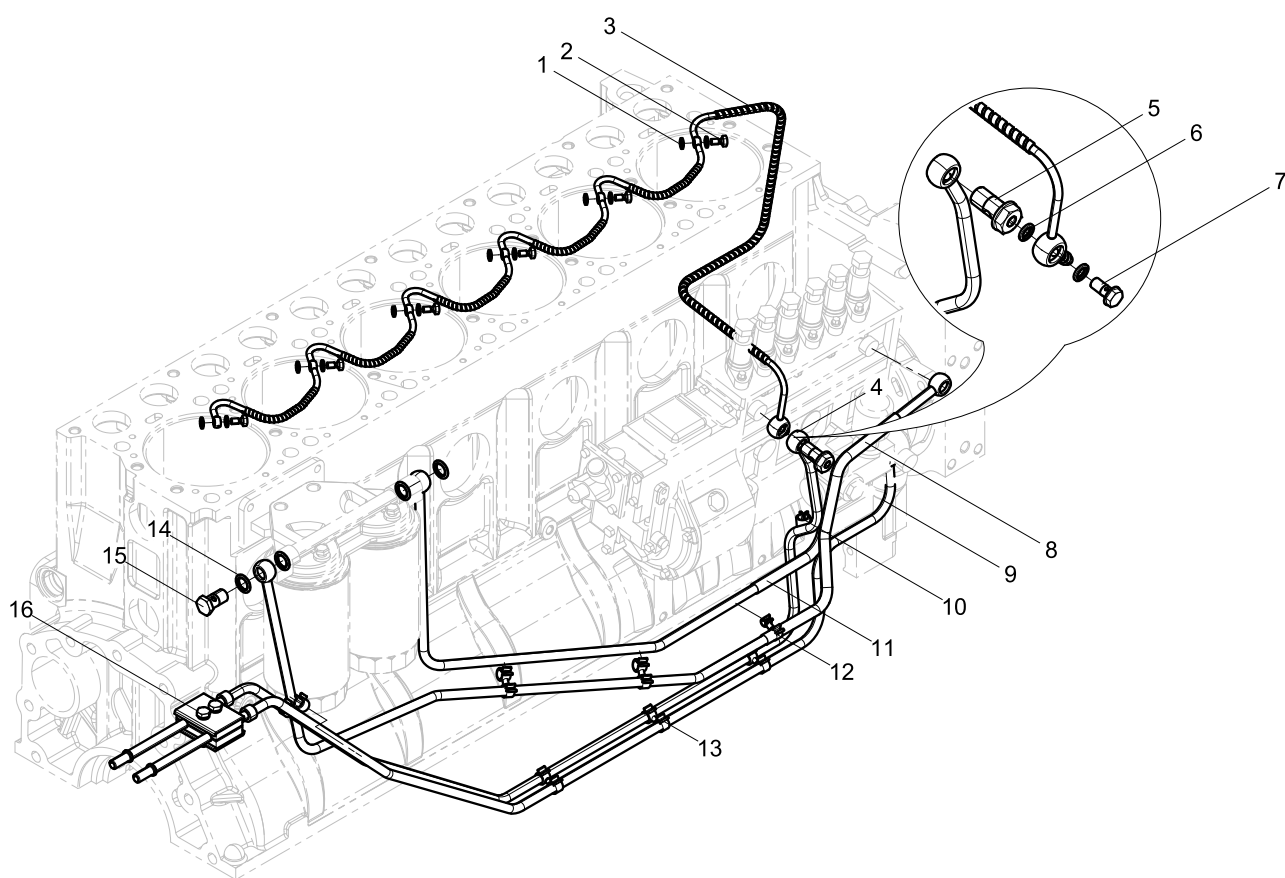
[illegible]

燃油滤清器(Fuel filter)



[illegible]

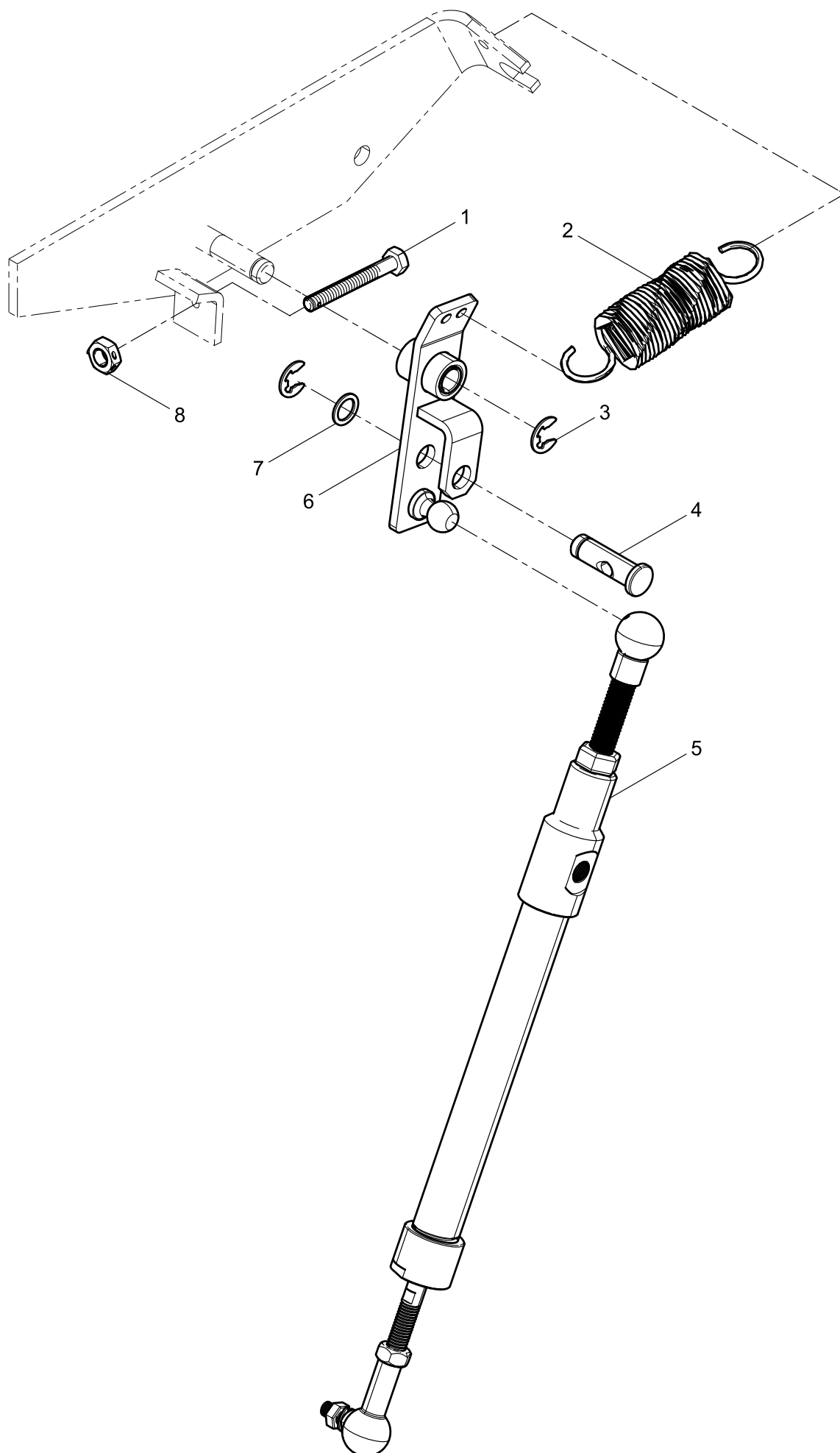
低压油管结合组(Low Pressure Oil pipe Group)



低压油管结合组(Low Pressure Oil pipe Group)

[illegible]

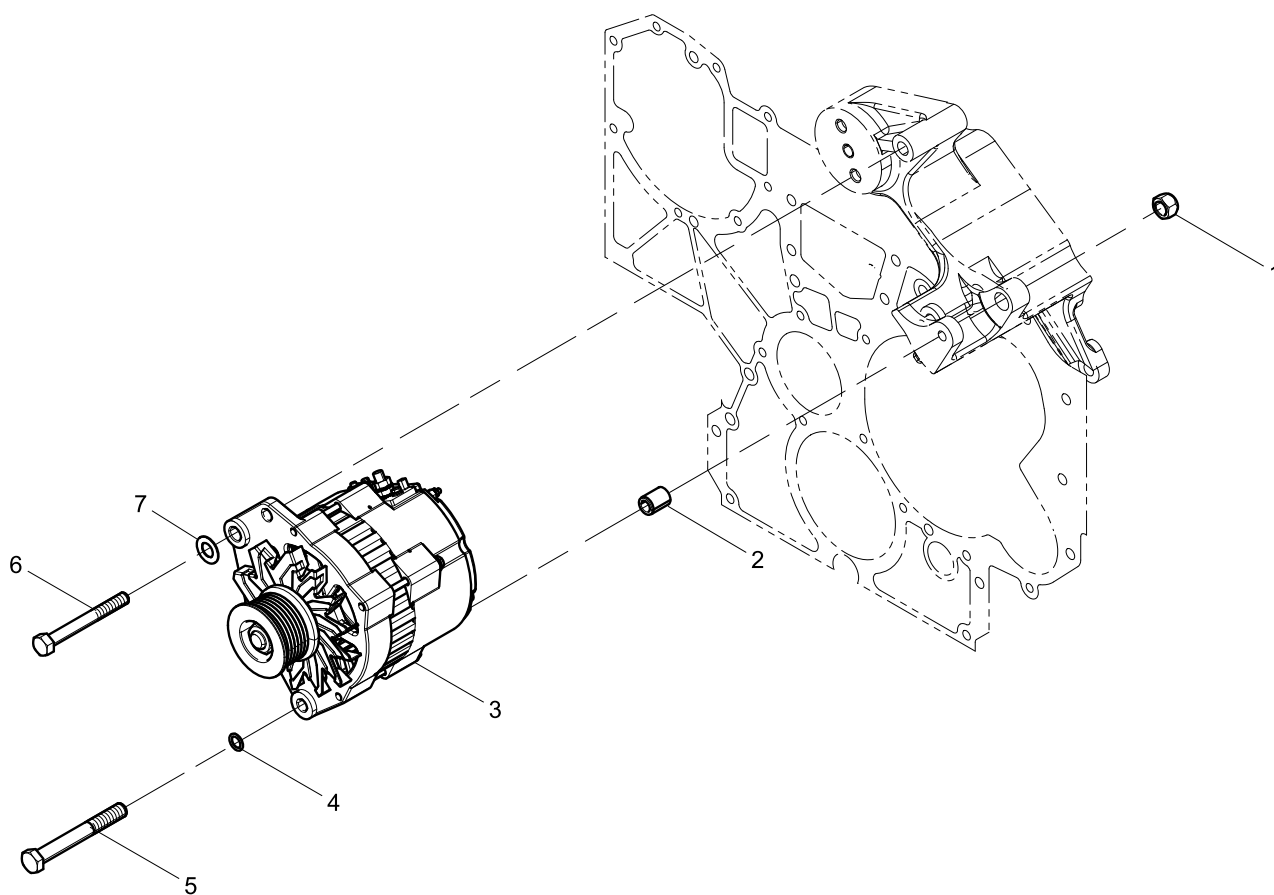
停车装置结合组(Shut-down Device Group)



停车装置结合组(Shut-down Device Group)

[illegible]

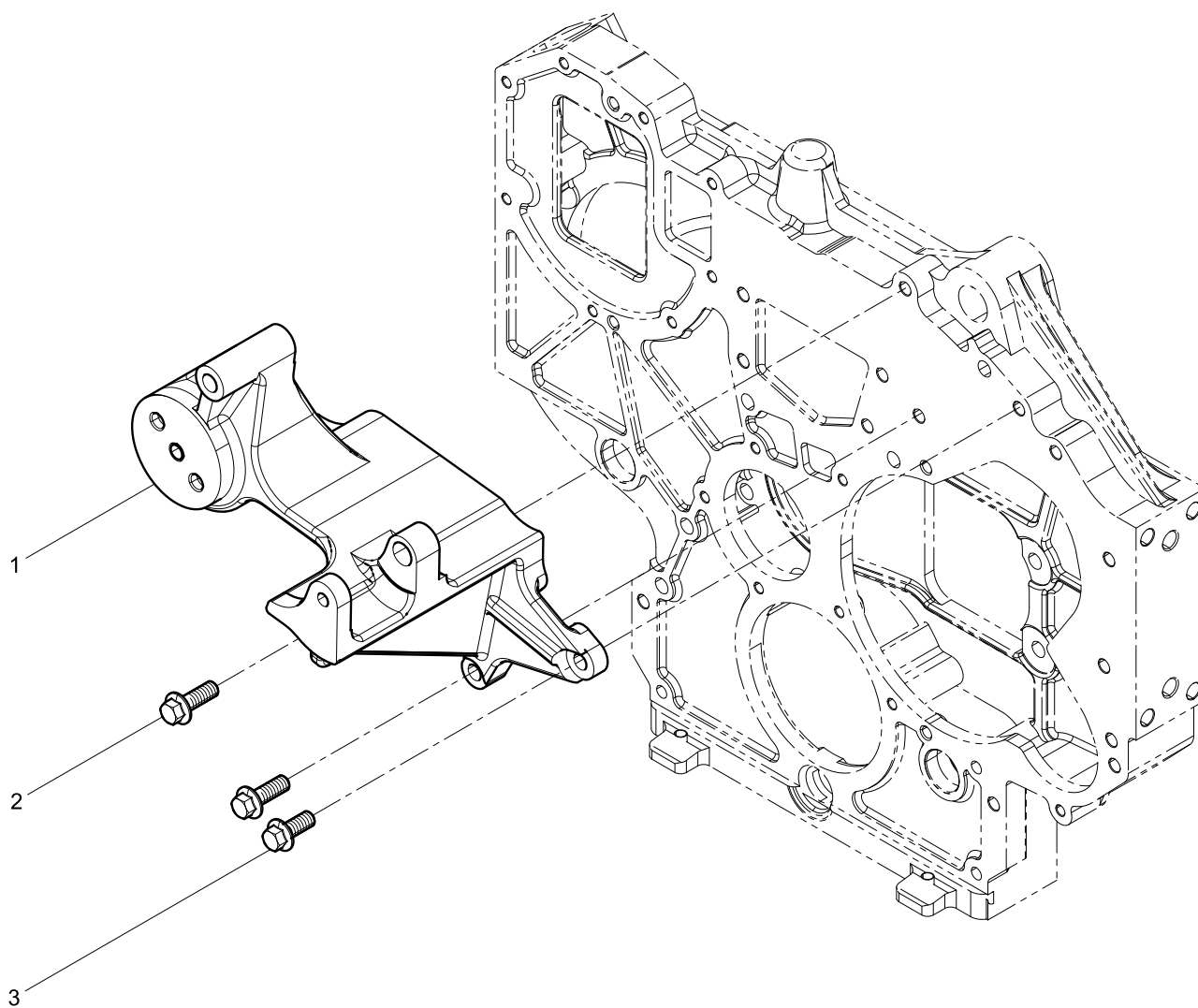
发电机结合组(Generator Group)



发电机结合组(Generator Group)

[illegible]

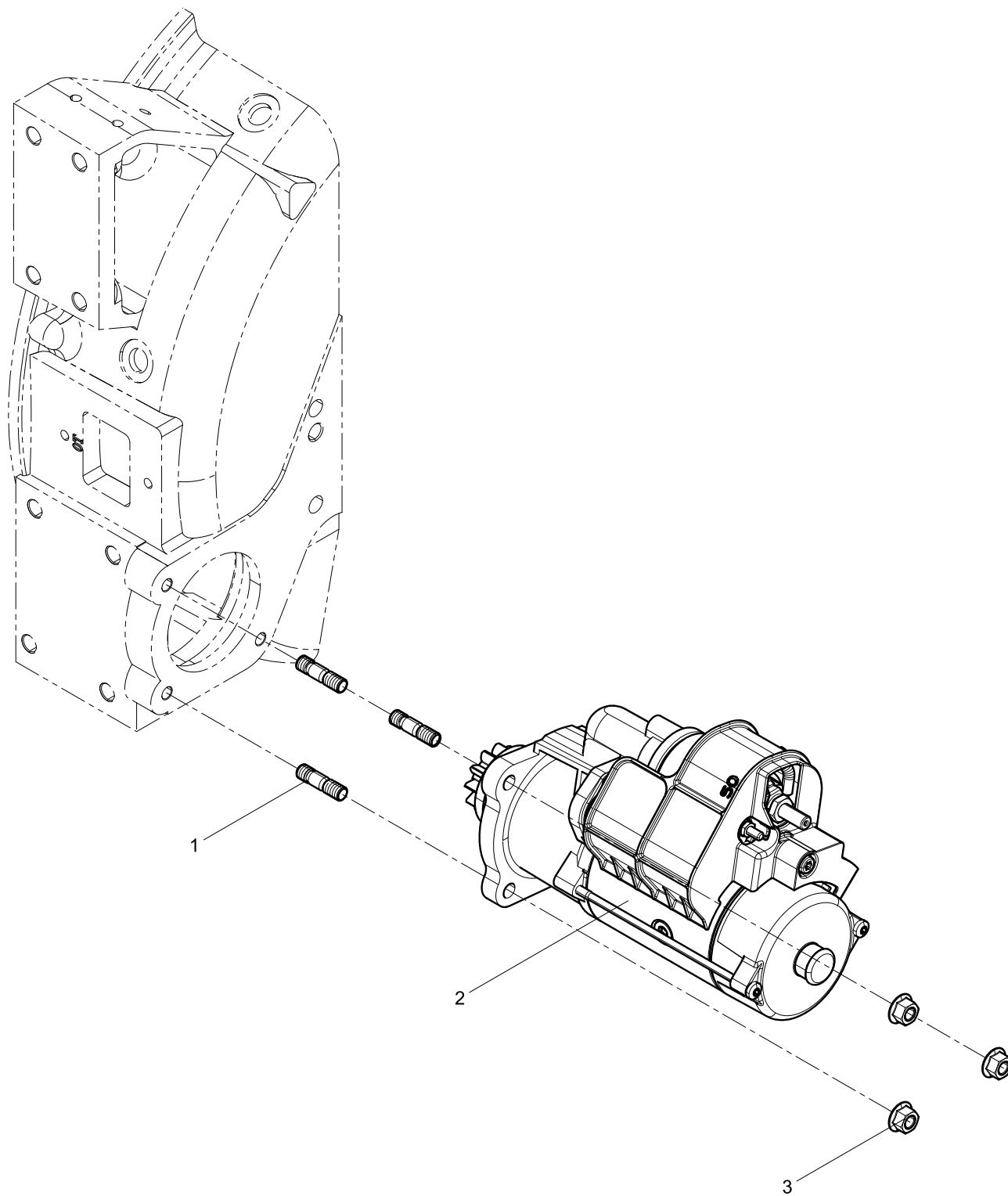
发电机支架结合组(Generator Bracket Group)



发电机支架结合组(Generator Bracket Group)

[illegible]

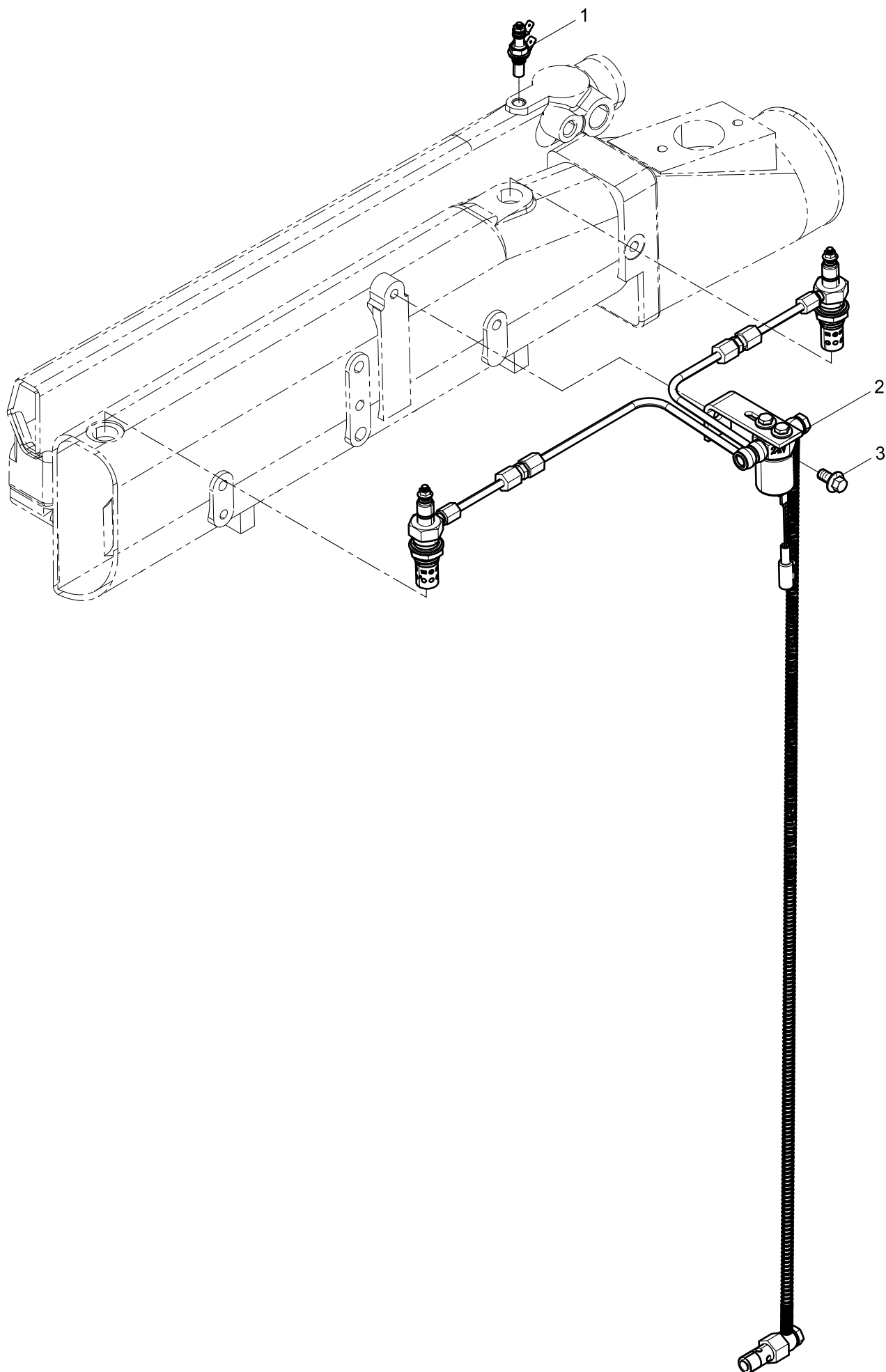
起动机结合组(Starter Motor Group)



起动机结合组(Starter Motor Group)

[illegible]

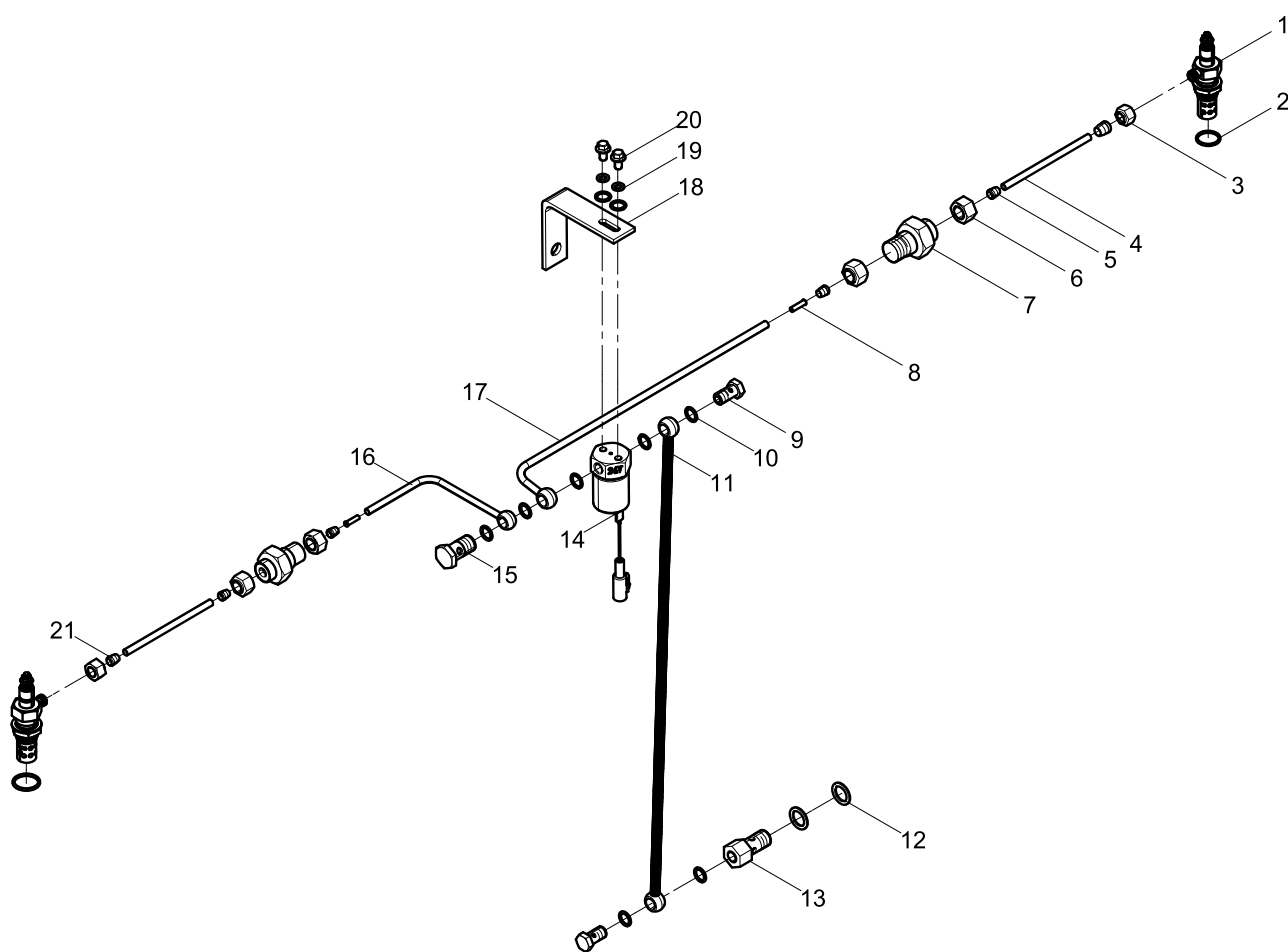
火焰预热起动系统(Flame preheated starting system)



火焰预热起动系统(Flame preheated starting system)

[illegible]

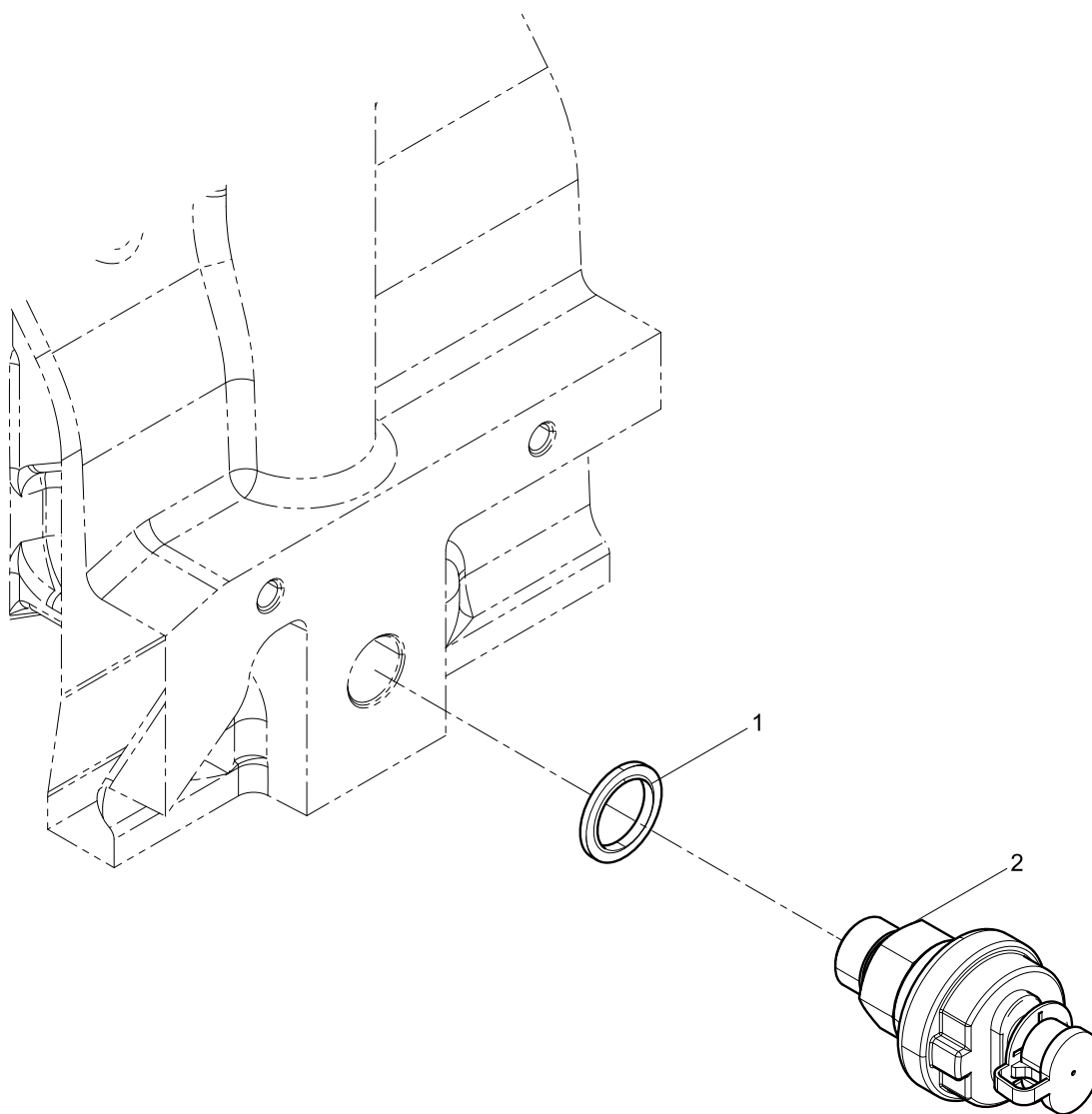
火焰预热装置(Flame preheated equipment)



火焰预热装置(Flame preheated equipment)

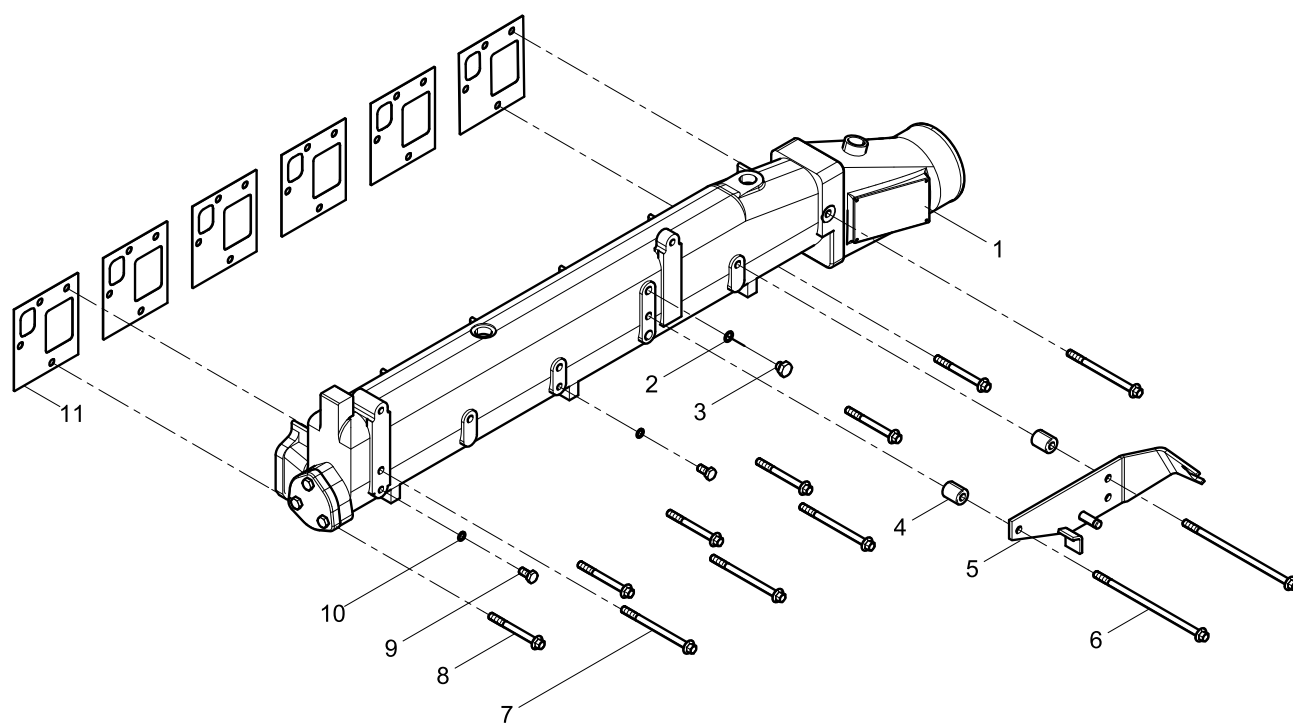
图序号 Pos.	件号 Teile.Number	数量 Amount	中文名称 Denomination	英文名称 Designation
1	61200090162	2	火焰预热电热塞	Flame preheated plug
2	90003098029	2	密封垫圈	Seal washer
3	90003559506	2	联管螺母	connect Nut
4	81560080327	2	管	Pipe
5	90003559561	4	卡套	Cutting sleeve
6	90003559516	4	管接头用螺母	Adapter nut
7	90003559462	2	卡套式直通接头体	Connector
8	99014280016	2	衬套	Bushing
9	90003962607	2	空心螺栓	Hollow bolt
10	612600080246	7	密封垫圈	Seal washer
11	AZ1500080159	1	燃油管	Fuel pipe
12	90003930261	2	平垫圈	Flat washer
13	609E110070	1	联接螺栓	Connecting bolt
14	61200090163	1	电磁阀	Electromagnetic valve
15	81560080212	1	空心螺栓	Hollow bolt
16	90003559557	2	卡套	Cutting sleeve
17	612600090647	1	燃油管	Fuel pipe
18	612600090648	1	燃油管	Fuel pipe
19	99012360441	1	角形支架	Angle bracket
20	90003931082	2	轻型弹簧垫圈	Single Coil Spring Lock Washer, Light Type
21	90003802307	2	六角头螺栓	Hexagon bolt

普通线束及传感器结合组(General-use Wire and Sensor Group)



• 102 •

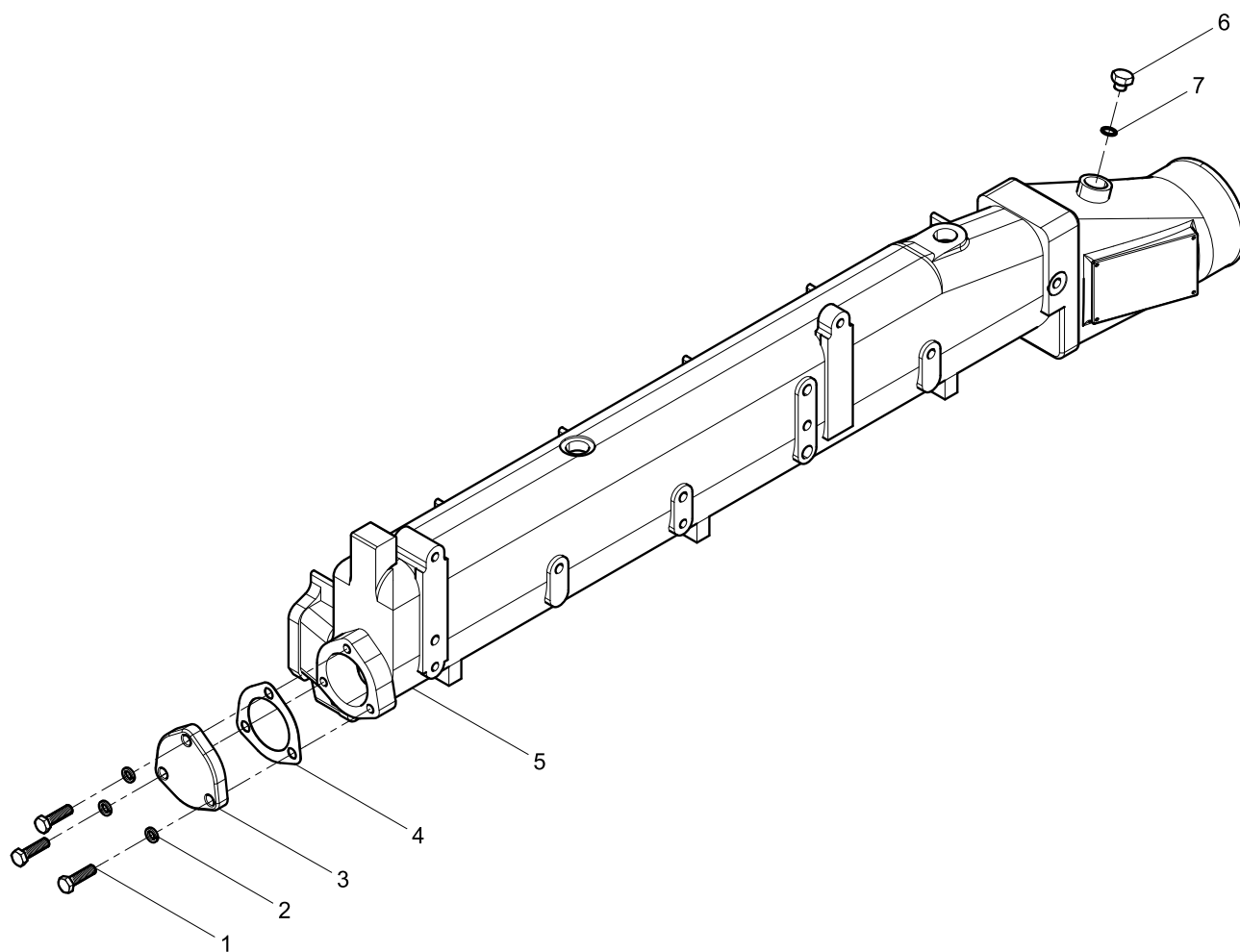
进气管结合组(Intake Manifold Group)



进气管结合组(Intake Manifold Group)

[illegible]

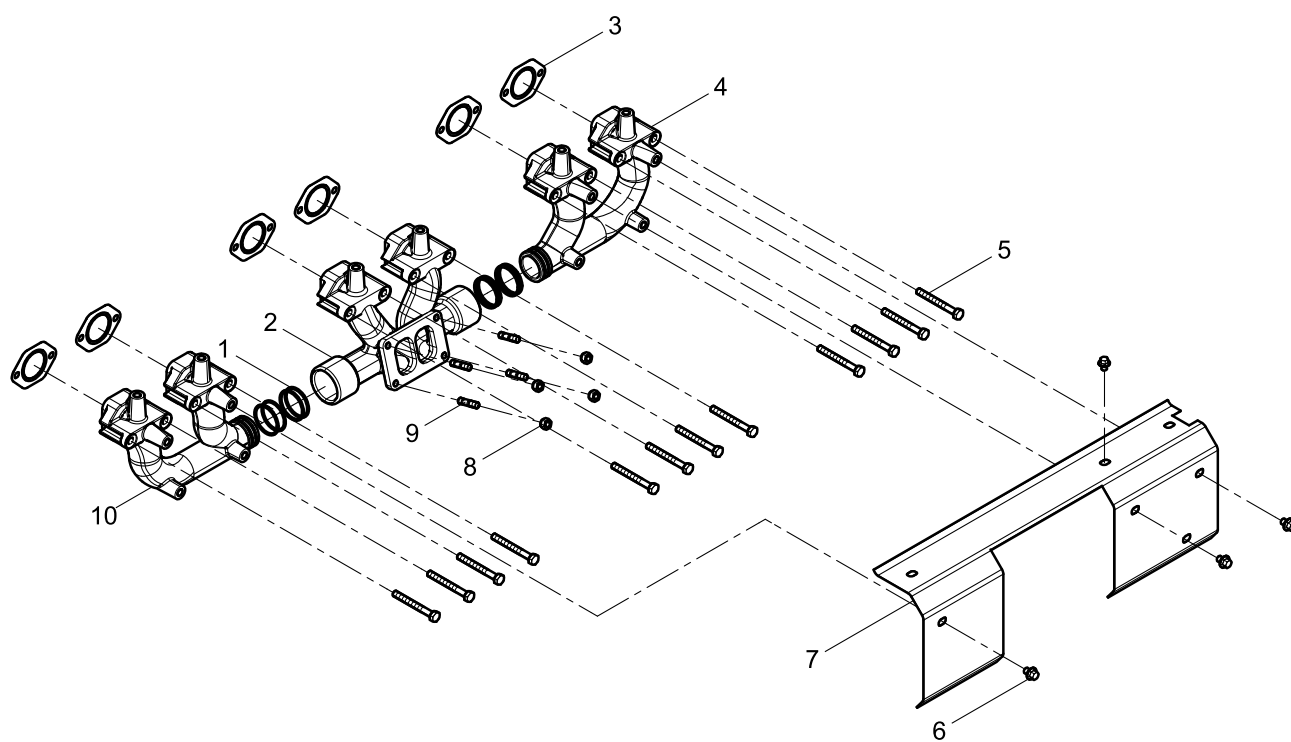
进气管总成(Air inlet pipe assembly)



进气管总成(Air inlet pipe assembly)

[illegible]

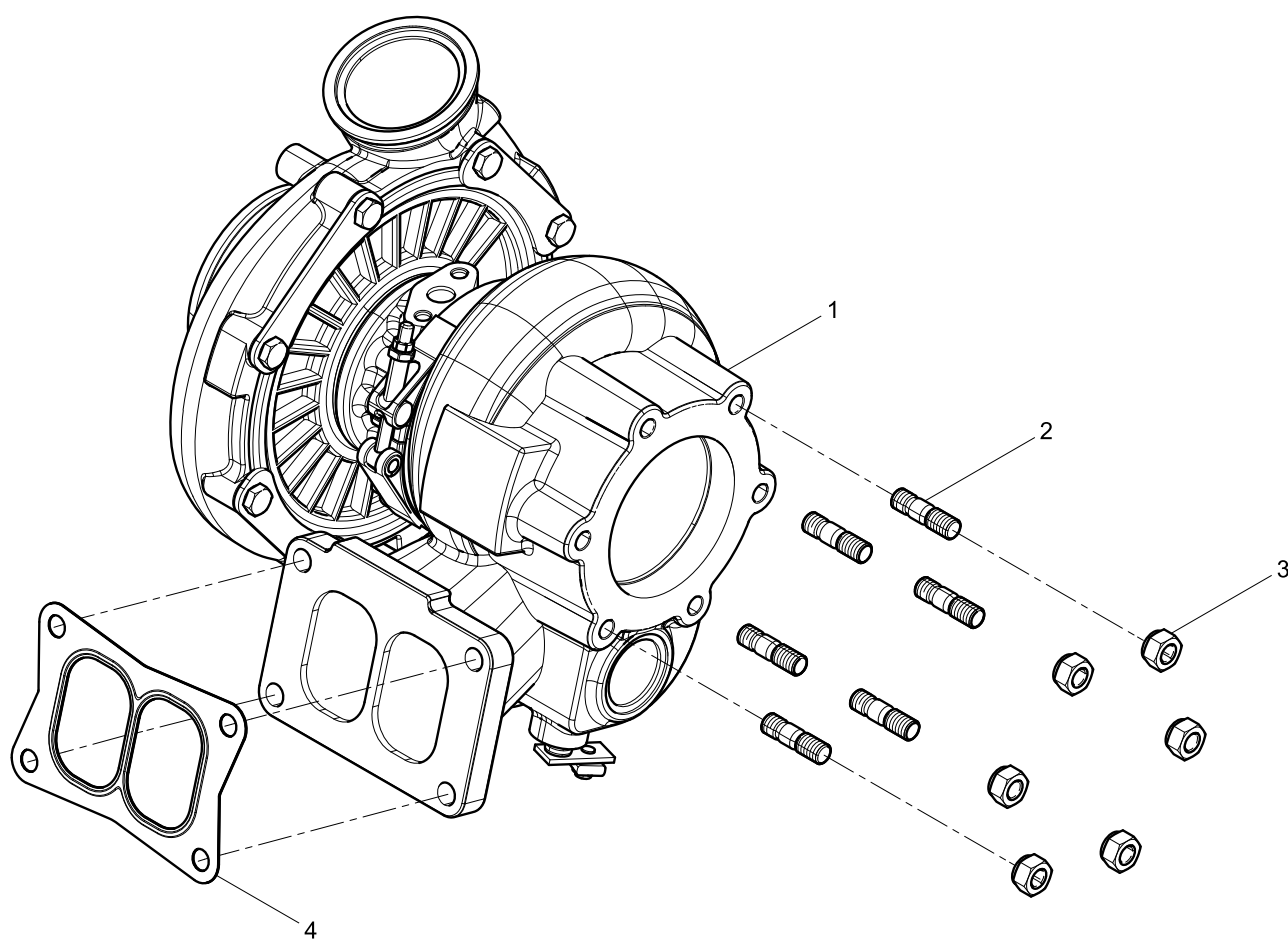
排气管结合组(Exhaust Manifold Group)



排气管结合组(Exhaust Manifold Group)

[illegible]

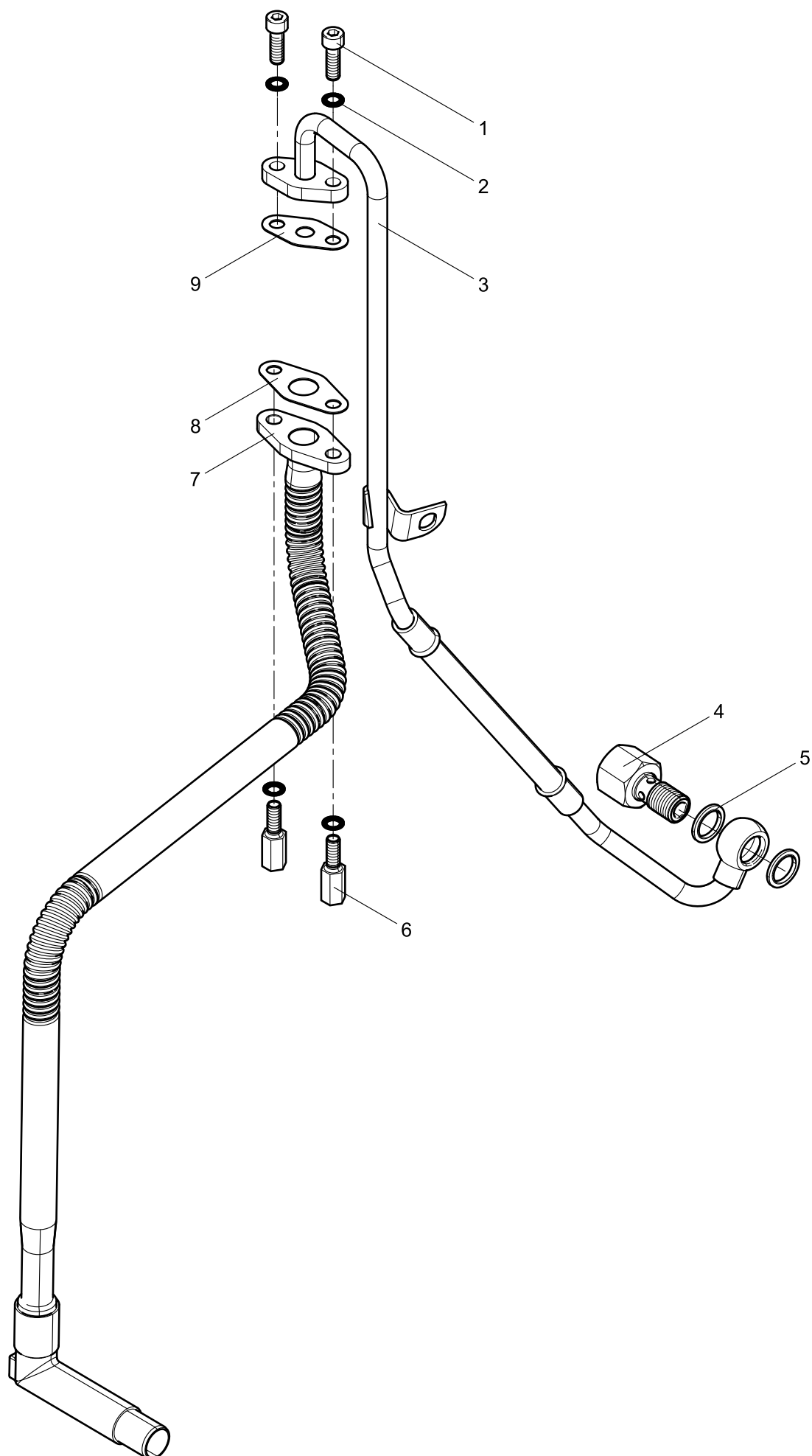
增压器结合组(Turbocharger assembly)



增压器结合组(Turbocharger assembly)

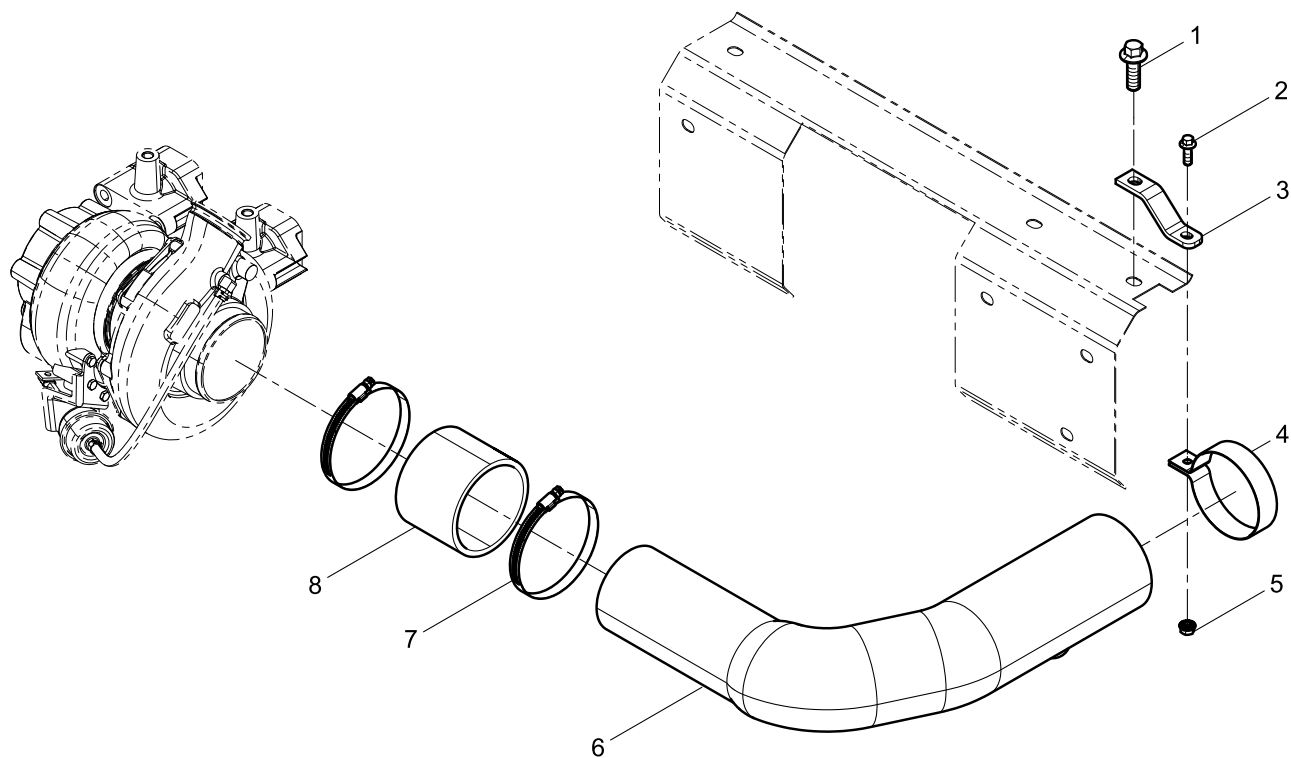
[illegible]

增压器润滑油管结合组(Turbocharger Oil pipe Group)



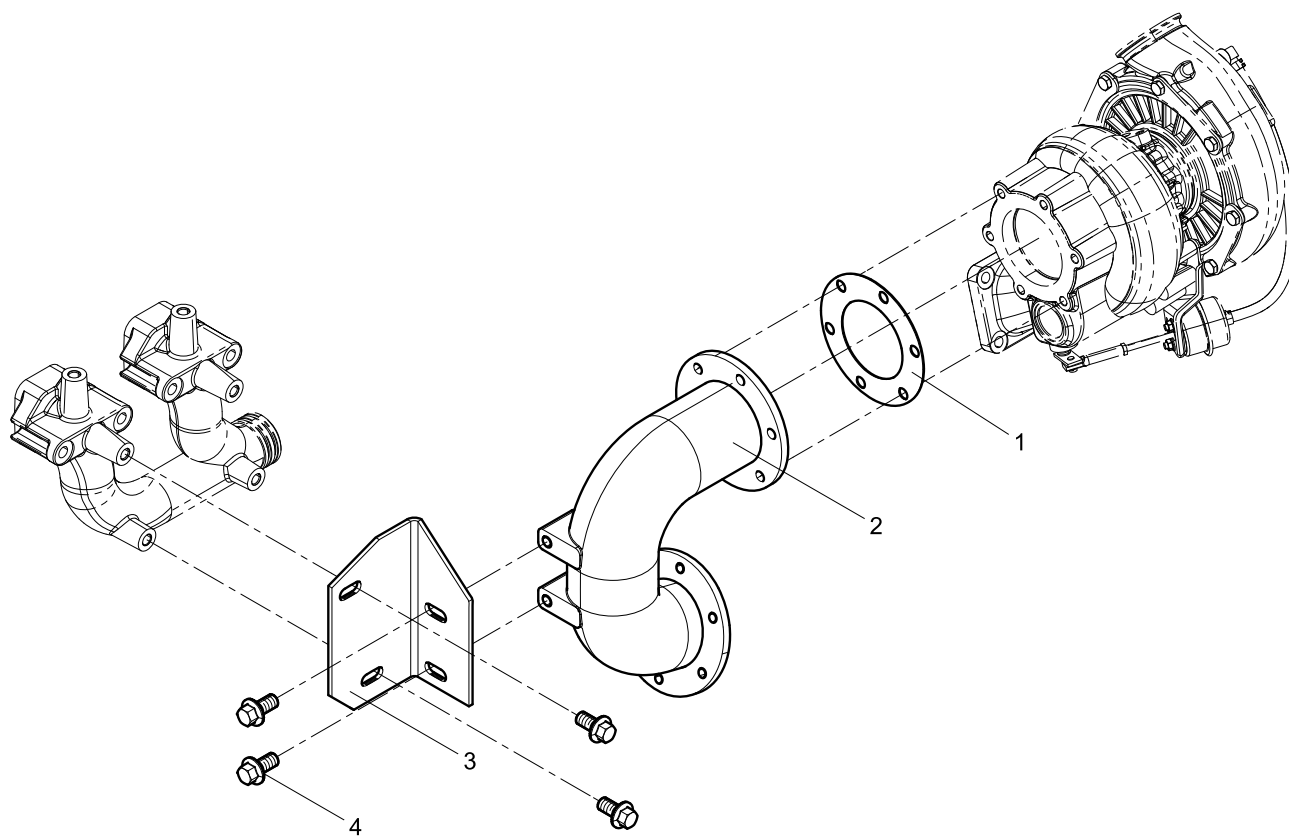
增压器润滑油管结合组(Turbocharger Oil pipe Group)

压气机管路结合组(Compressor Pipeline Group)



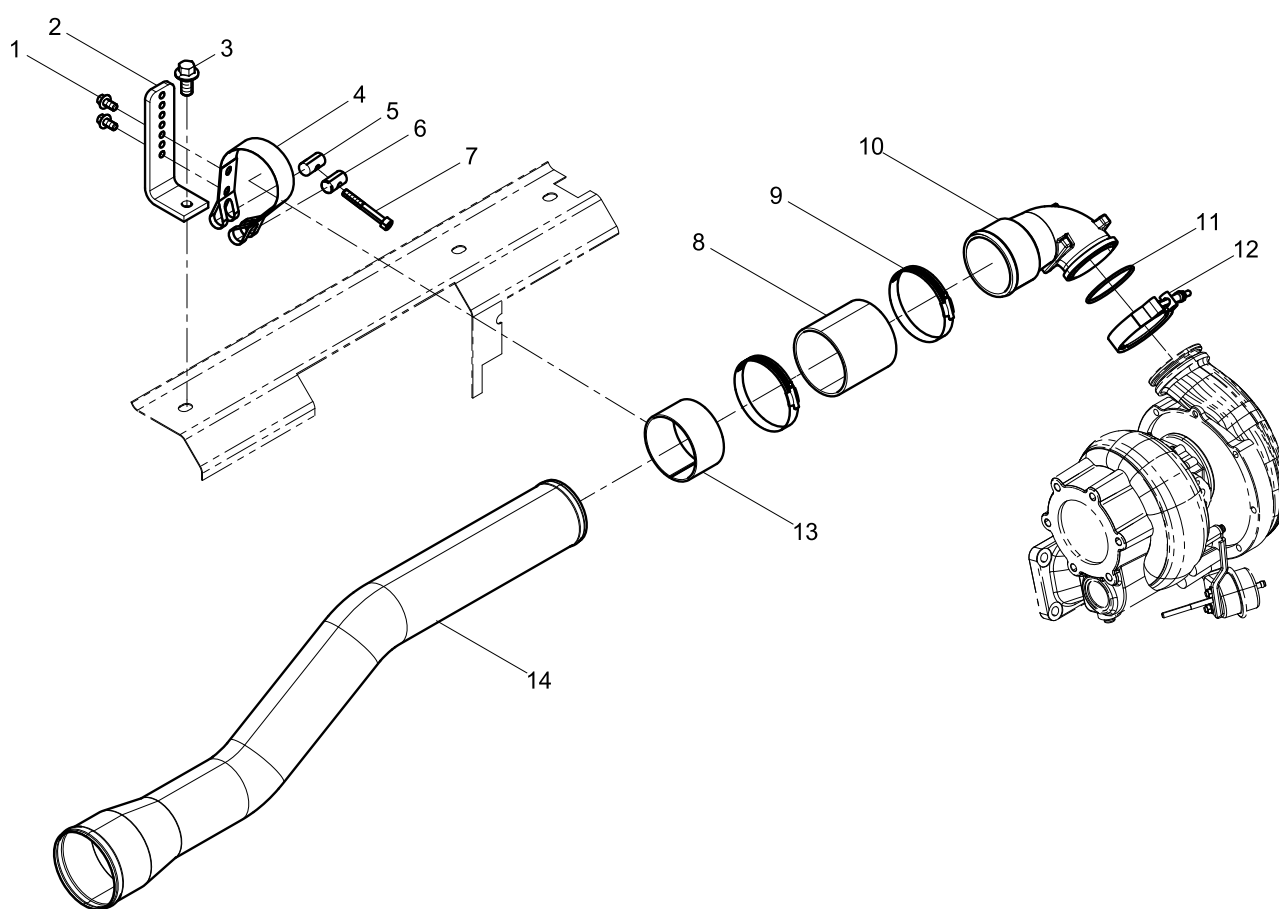
压气机管路结合组(Compressor Pipeline Group)

后排气管结合组(Rear Exhaust Manifold Group)



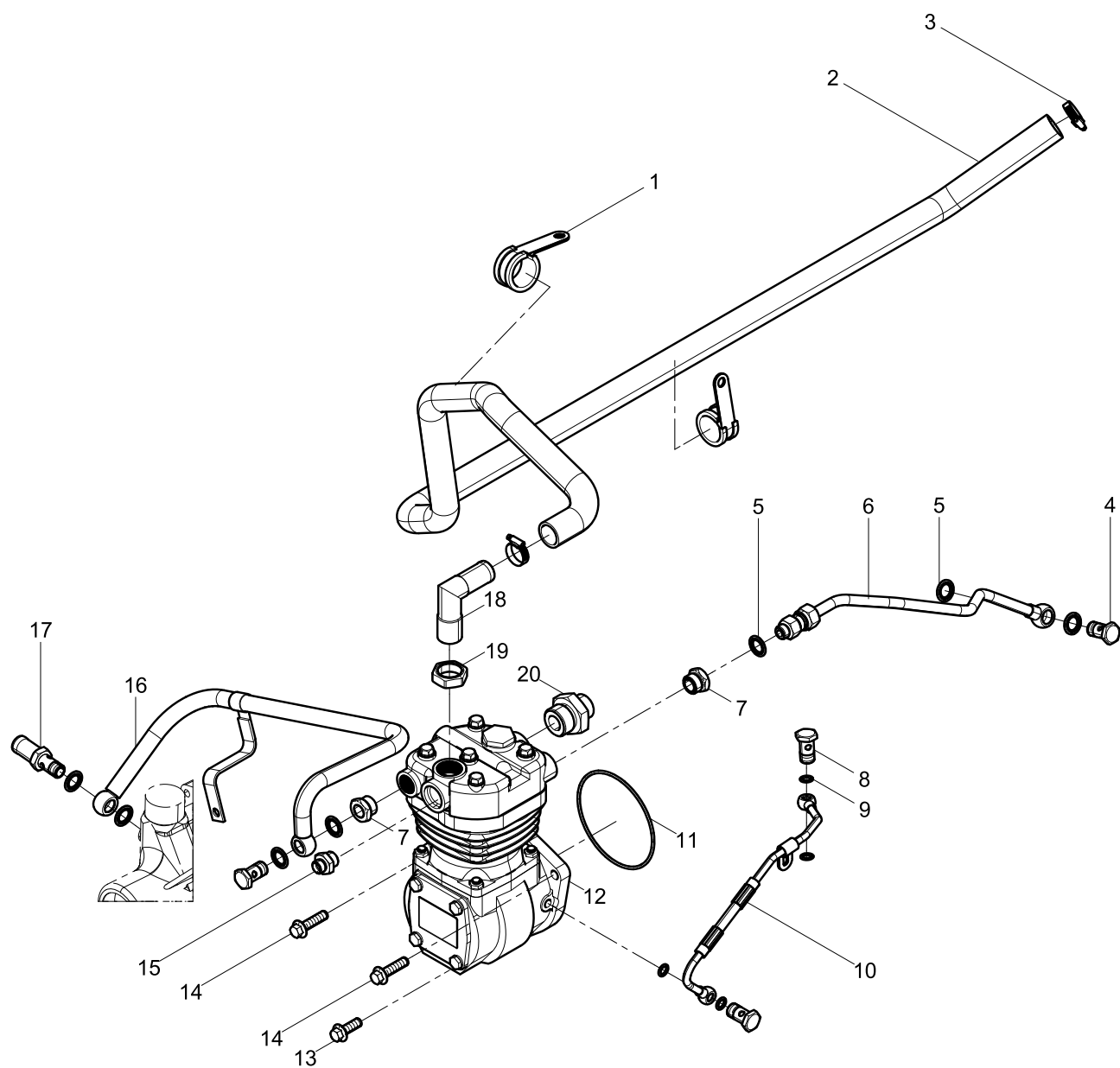
后排气管结合组(Rear Exhaust Manifold Group)

中冷器结合组(Intercooler assembly)



中冷器结合组(Intercooler assembly)

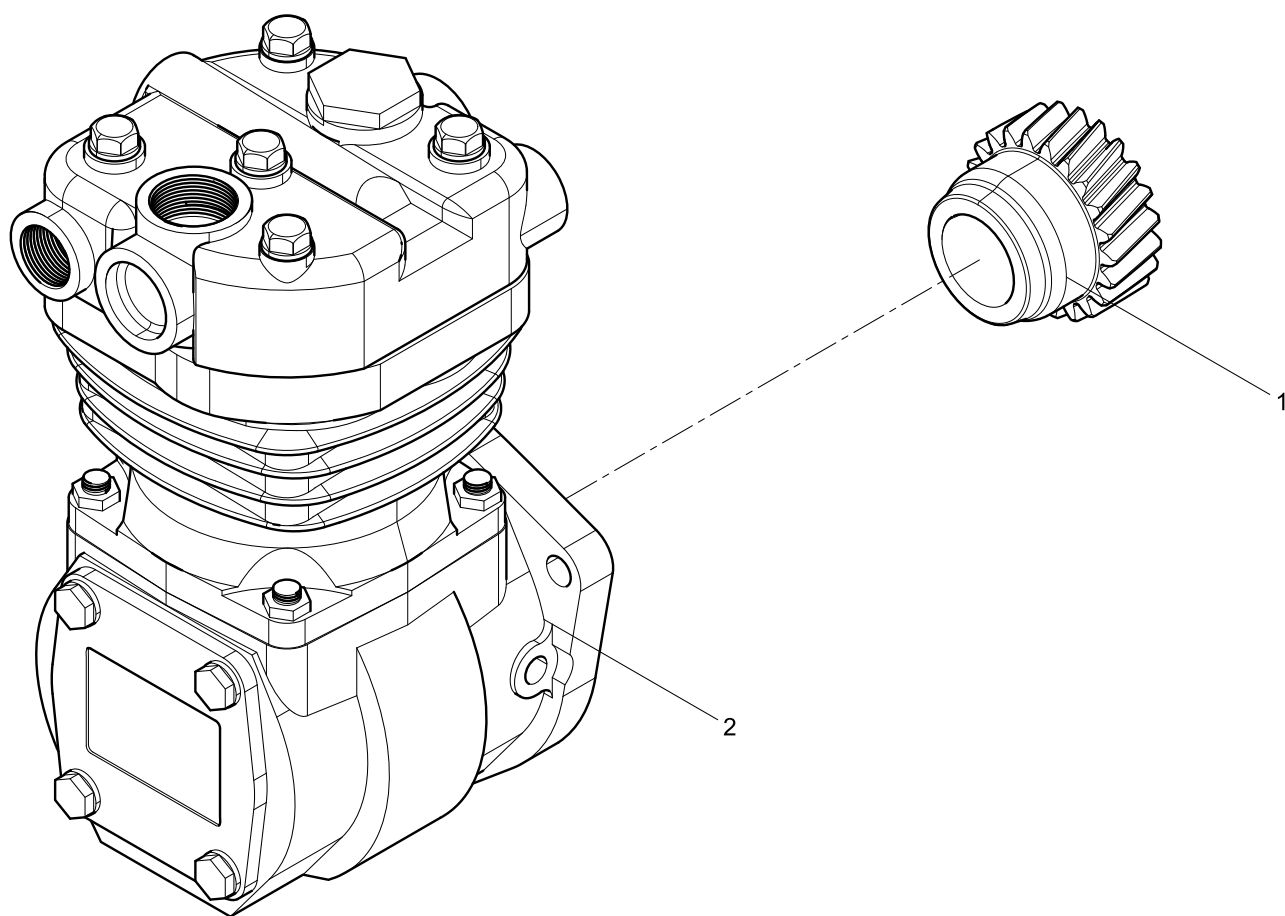
空压机结合组(Air Compressor Group)



空压机结合组(Air Compressor Group)

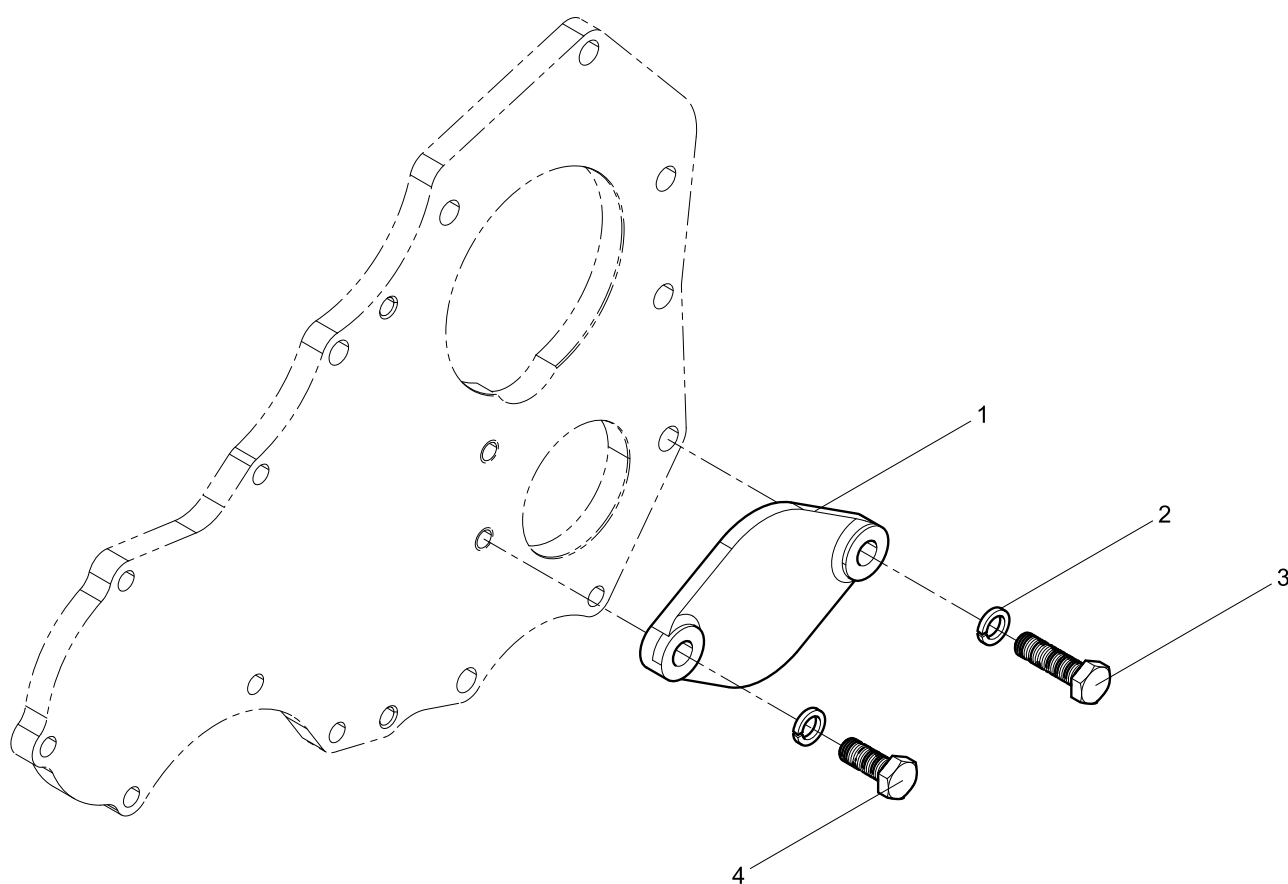
图序号 Pos.	件号 Teile.Number	数量 Amount	中文名称 Denomination	英文名称 Designation
1	612600112639	2	管夹总成	Pipe Clamp Assembly
2	612600112790	1	气路连接胶管	Air Connecting Rubber Pipe
3	90003989301	2	软管卡箍	Hose clip
4	90003962627	2	空心螺栓	Hollow bolt
5	13023361	7	组合密封垫圈	Unit seal washer
6	612600130603	1	空压机进水管	Water inlet pipe of air compressor
7	99100360161	2	接头体	Adapter body
8	612600130333	2	空心螺栓	Hollow bolt
9	612600080246	4	密封垫圈	Seal washer
10	612600130377	1	空压机润滑油管总成	Oil pipe of air compressor assembly
11	30800010003	1	密封圈	Seal washer
12	612600130616	1	空压机总成	Air compressor assembly
13	90011430017S	1	六角法兰面承面带齿螺栓	Hexagon Flange Bolt
14	90011430032	2	六角法兰面承面带齿螺栓	Hexagon Flange Bolt
16	612600130472	1	空压机回水管总成	Water return pipe assembly of air compressor
17	612600060021	1	回水管接头	Water return pipe nipple
18	612600130058	1	管接头	Adapter
19	612600130303	1	六角薄螺母	Hexagon nut
20	612600130275	1	空压机出气接头	Air outlet nipple of air compressor

空压机总成(Air compressor assembly)



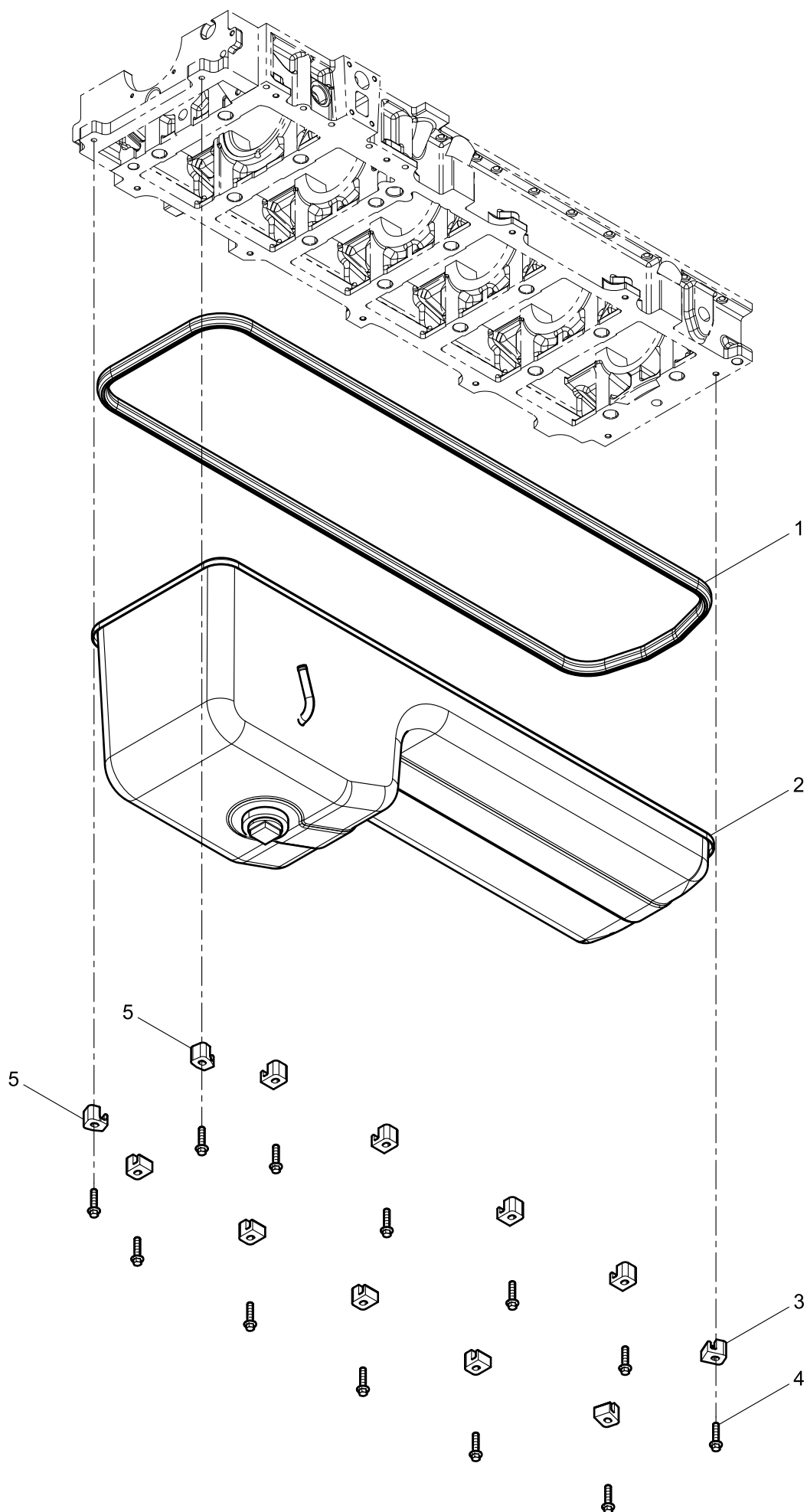
空压机总成(Air compressor assembly)

液压泵结合组(Hydraulic Pump Group)



液压泵结合组(Hydraulic Pump Group)

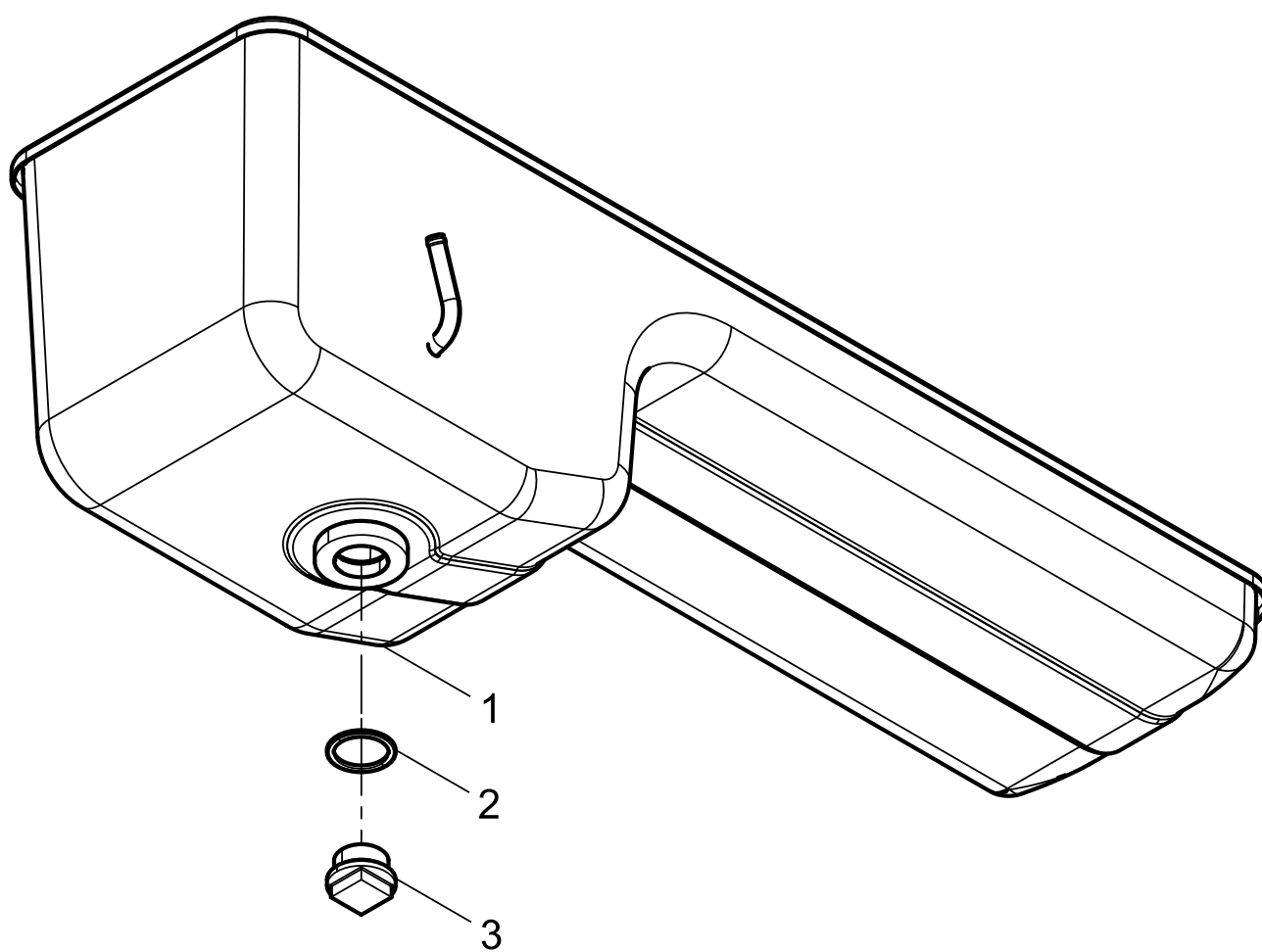
油底壳结合组(Oil Pan Group)



油底壳结合组(Oil Pan Group)

[illegible]

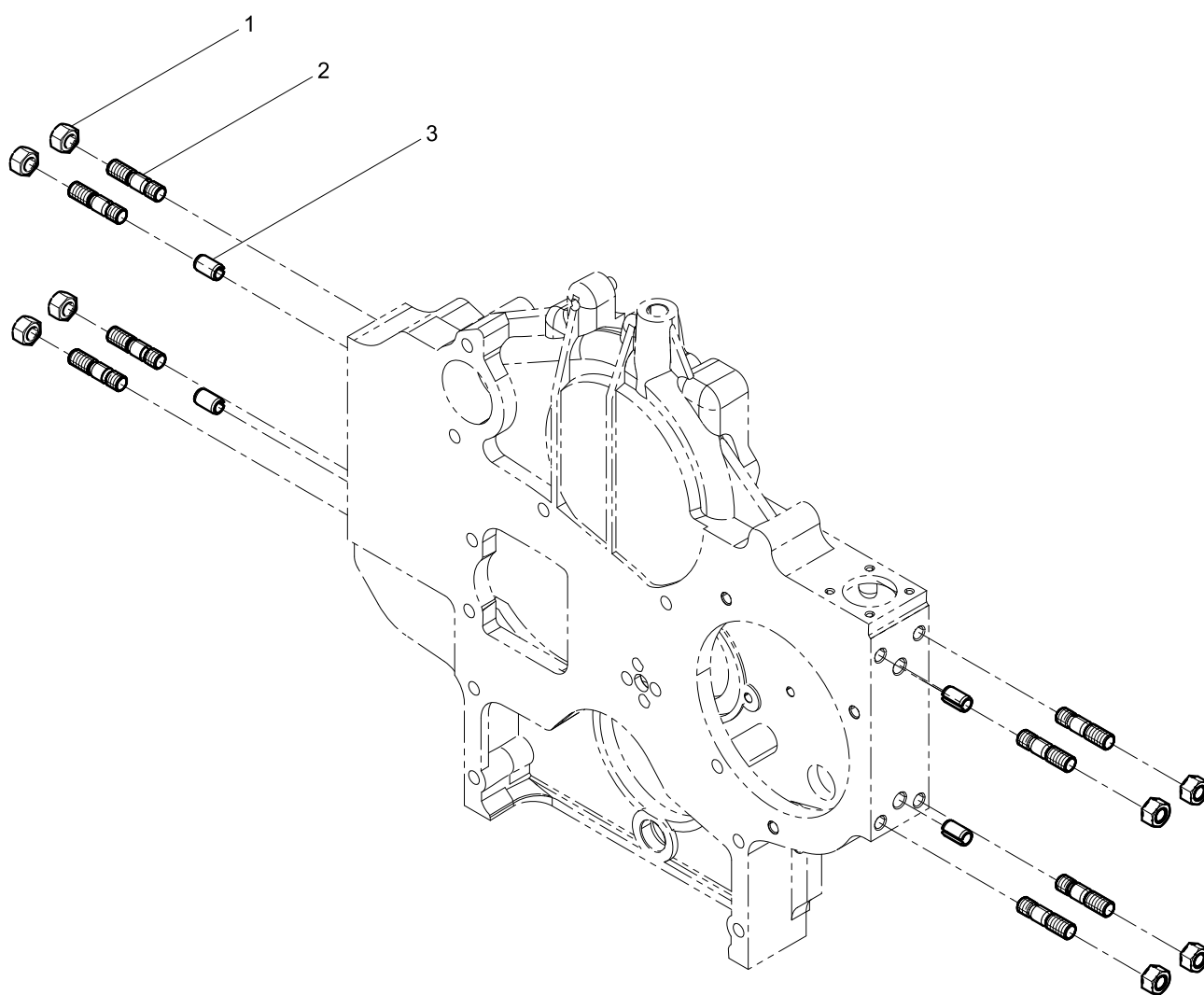
油底壳总成(Oil pan assembly)



油底壳总成(Oil pan assembly)

[illegible]

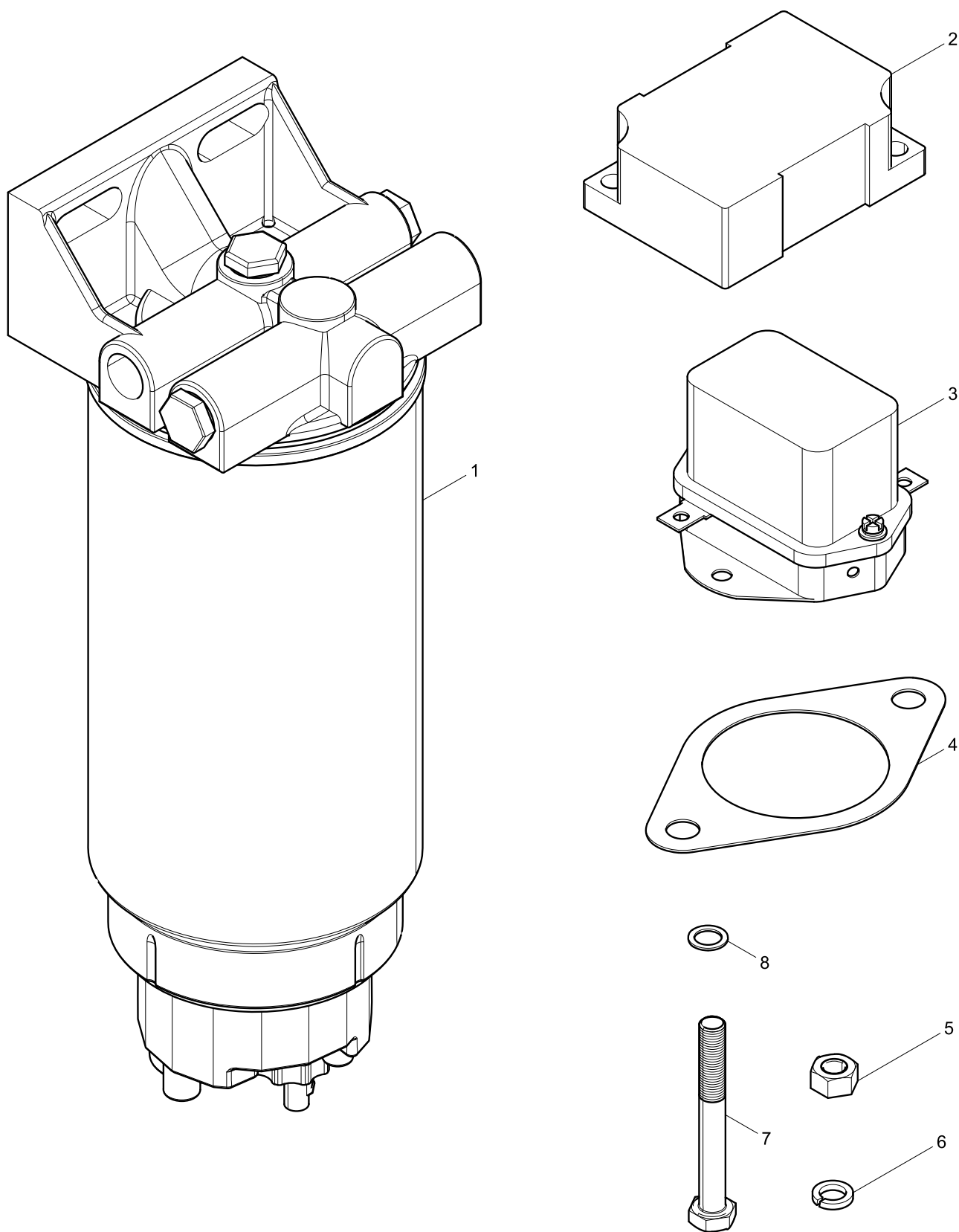
发动机支架结合组(Engine Bracket Group)



发动机支架结合组(Engine Bracket Group)

[illegible]

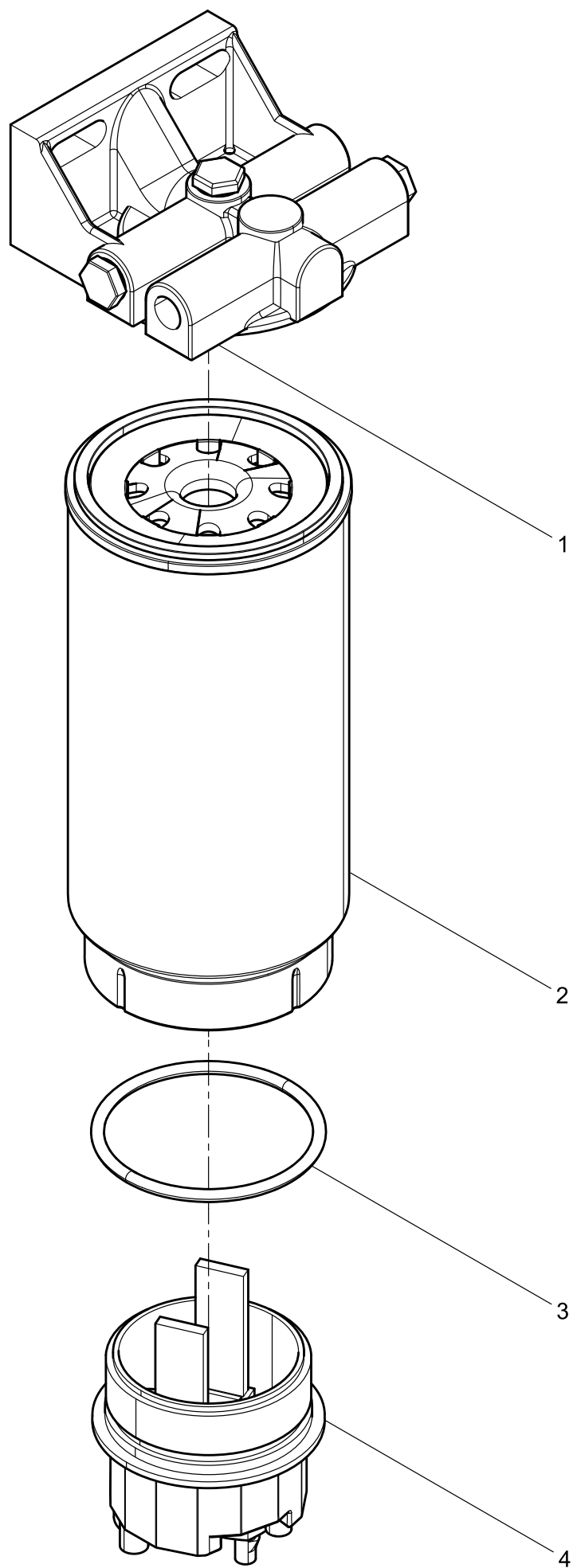
零件箱总成(Parts Kit Assembly)(*01)



零件箱总成(Parts Kit Assembly)(*01)

[illegible]

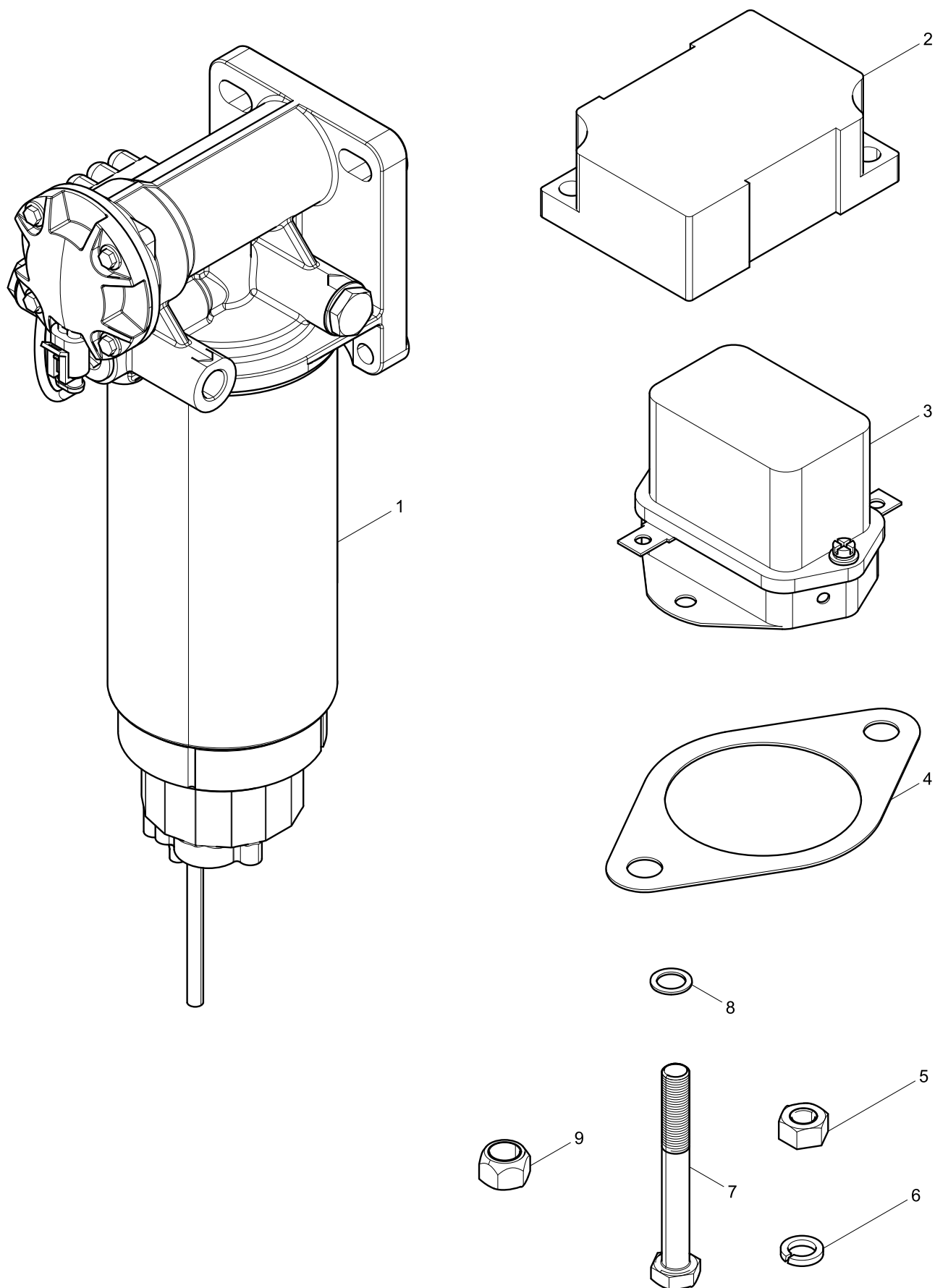
除水放心滤(Fuel filter-water separator)



除水放心濾(Fuel filter-water separator)

[illegible]

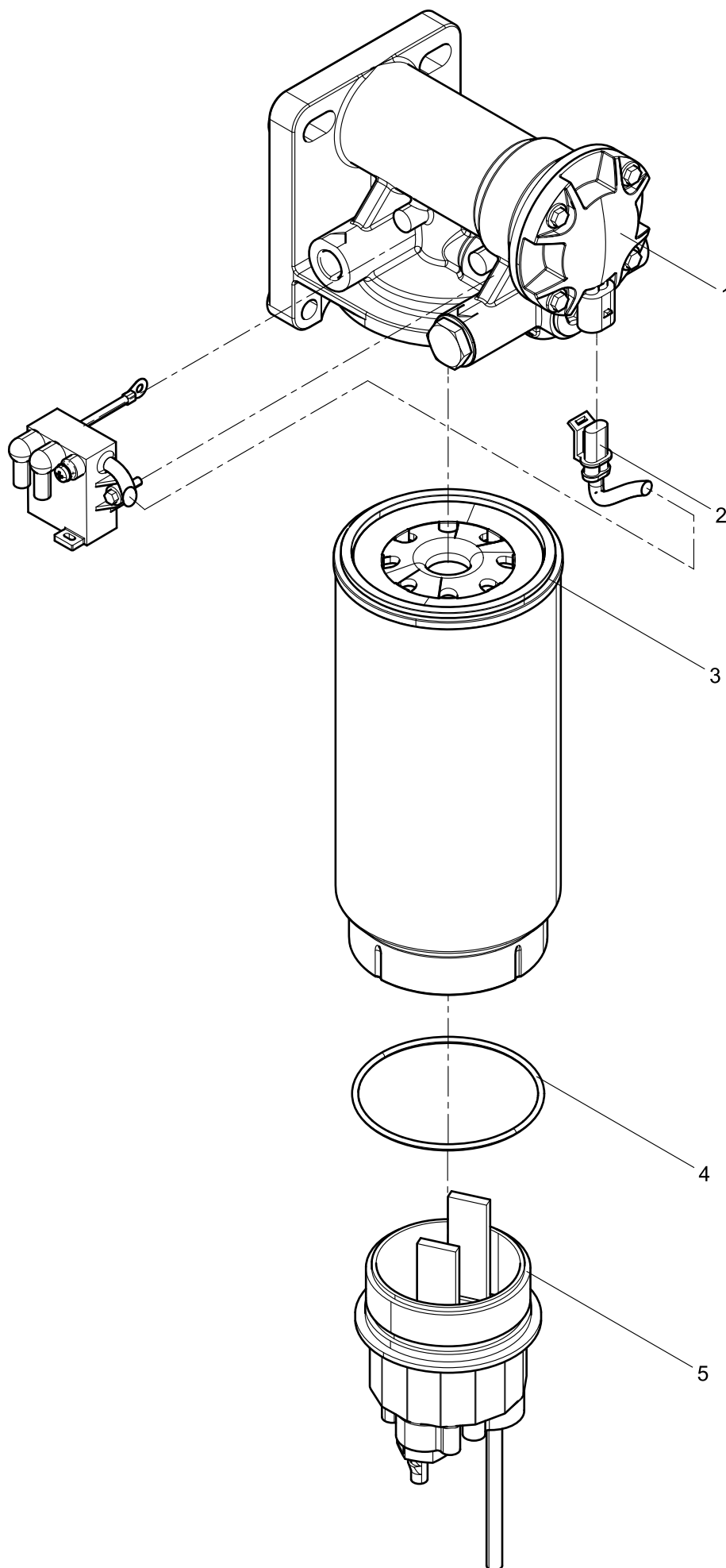
零件箱总成(Parts Kit Assembly)(*02)



零件箱总成(Parts Kit Assembly)(*02)

[illegible]

燃油水寒宝(Fuel System Protector)



燃油水寒宝(Fuel System Protector)

[illegible]

潍柴动力股份有限公司
WEICHAI POWER CO., LTD.

地址 山东省潍坊市高新技术产业开发区福寿东街197号甲

Add : NO.197A, Fushou East Str.,

Weifang High-new Techindustrial Development Zone, Weifang, Shandong, CHINA.

电话+86-0536-8197777

Tel: +86-0536-8197777

传真+86-0536-8221210

Fax: +86-0536-8221210

邮编261205

Postae Code: 261205