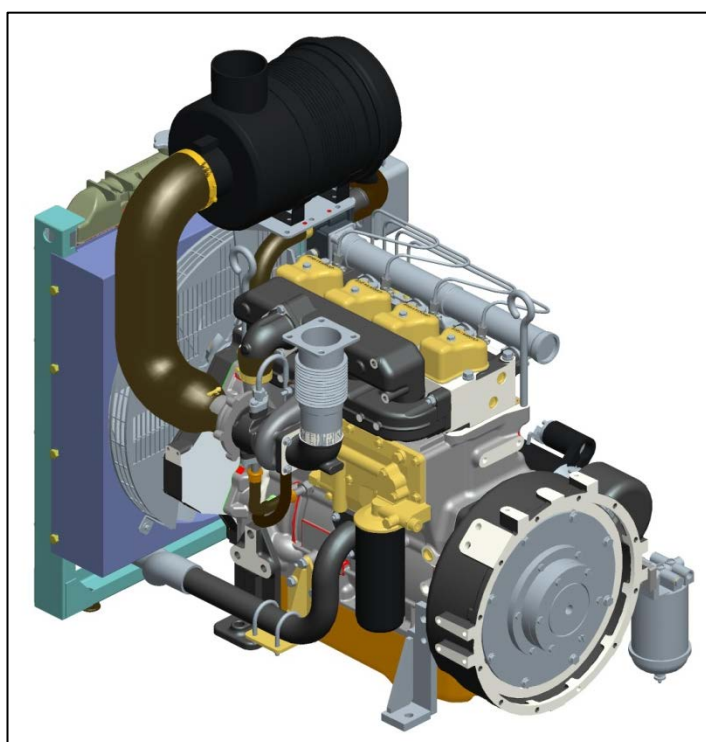
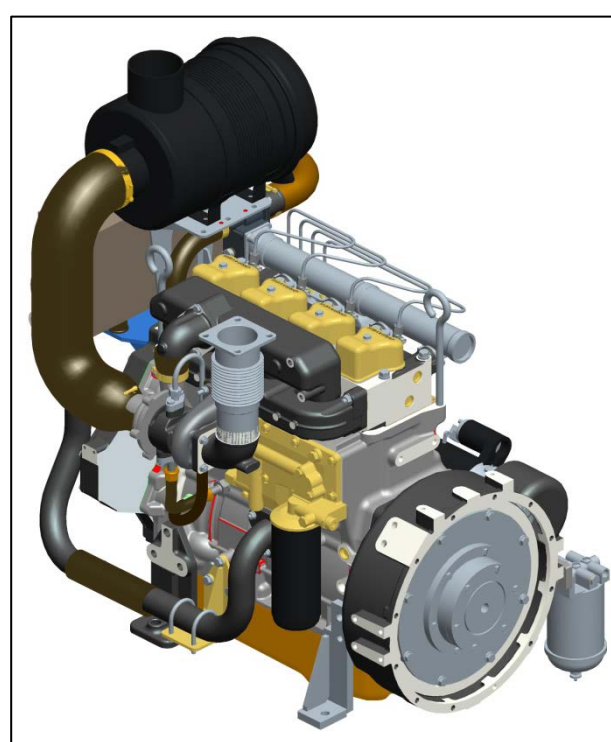


Illustrated Spare Parts Catalogue

4G11T-RC		4G11T-HE	
BOM NO.	BOM DESCRIPTION	BOM NO.	BOM DESCRIPTION
14119011401P	4G11T 80HP/1500RPM RC 12V	14119011402P	4G11T 80HP/1500RPM HE 12V
14119011403P	4G11T 94HP/1500RPM RC 12V	14119011404P	4G11T 94HP/1500RPM HE 12V
14119011405P	4G11T 94HP/1800RPM RC 12V	14119011406P	4G11T 94HP/1800RPM HE 12V
14119011407P	4G11T 102HP/1800RPM RC 12V	14119011408P	4G11T 102HP/1800RPM HE 12V
14119011409P	4G11T 102HP/2000RPM RC 12V	14119011410P	4G11T 102HP/2000RPM HE 12V
14119011411P	4G11T 102HP/2200RPM RC 12V	14119011412P	4G11T 102HP/2200RPM HE 12V
14119011413P	4G11T 110HP/2200RPM RC 12V	14119011414P	4G11T 110HP/2200RPM HE 12V
14119011415P	4G11T 110HP/2400RPM RC 12V	14119011416P	4G11T 110HP/2400RPM HE 12V



[141100063014-RC](#)



[141100063014-HE](#)



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 Greaves Toll Free No. 1800-266-0670

Document No.141100064054
 Revision No. 00
 Updated On: 18-09-2014



Notification:

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Foreword

Greaves genuine spare parts and service facilities are available across India. You will find appointed sales and service points giving caring support to the engine owned by you. Each distribution outlet is thoroughly equipped with technical data, factory trained mechanics, modern equipment's, and full adequate stock of genuine Greaves spare parts.

For quicker and better service, your parts requirements should be ordered from your nearest Greaves Cotton Limited Distributer or Dealer. At any of the locations you will encounter with prompt, intelligent, and courteous service. Every person associated with us is ready and eager to help in every possible way through personal contact or through the mail at your convenience.

The comfort of ordering spares and receiving the same is greatly dependent upon the proper use of the information disposed in this catalogue. In order to avoid errors follow instructions as mentioned below:

1. Write your order clearly, using a soft media if possible.
2. Be sure to list the correct part number. In case of doubt as to which part number need to be mentioned? State the model and serial number of the engine on which the part is to be replaced. Part numbers are usually located on the body of the part itself.
3. If possible, arrange your purchase order in the numerical sequence of part numbers.
4. Please specify shipping instructions, if any, preferable to you.
5. Mention your company name and shipping address clearly.

Genuine spare parts from Greaves are a synonym for Quality. Since, each part is made of the highest quality and accuracy. With our spare parts you will be assured for durable life of the engine fulfilling the business need of you application.

Visit us at:

www.greavescotton.com

While asking for assistance to our Authorized Service Dealer, please provide the following information.

- Engine Serial Number
- Site Location
- Your Name, Company Name, Detailed Address, and Phone / Mobile Number
- General Description of Assistance required

Greaves Toll Free No. 1800-266-0670

For Emergency Contact

AGM-Service, HO Greaves Cotton Limited,

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Bahadur Shah Zafar Marg,

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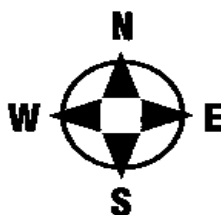
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Anna Salai Little Mount,

Saidapet, Chennai-600 015

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Customer Service Information

Service personnel are expected to fill the details as mentioned below, while he visits for the first service. Such data will help customer while ordering spare parts.

Engine Model	-----
Engine Serial No.	-----
Fuel Injection Pump No.	-----
Injector No.	-----
Fuel Filter No.	-----
Lube Oil Filter No.	-----
Air Filter No.	-----
Turbocharger No.	-----

Understand the Structure of Spare Parts Catalogue

The spare parts catalogue uses part number identification method to break sub level parts under their corresponding top assembly. By placing an order on corresponding top level assemblies / Bills of material the individual parts under that top assemblies / Bills of material can be obtained. Such exemplary identification can be explained as follows:

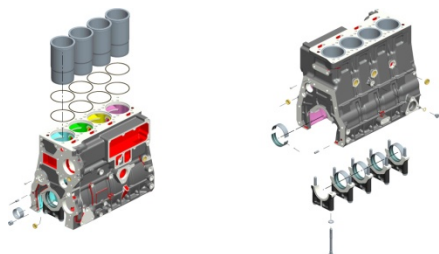
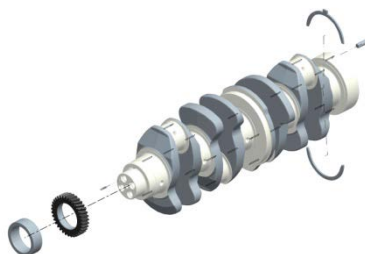
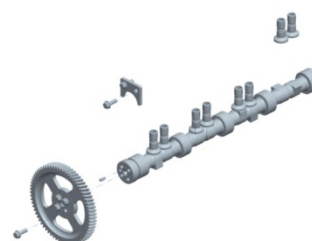
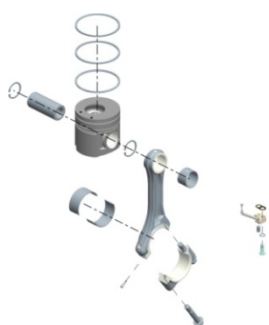
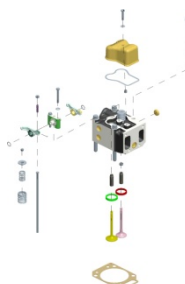
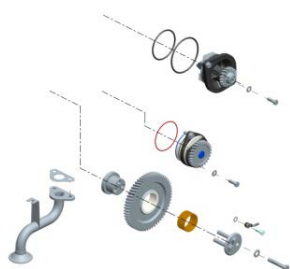
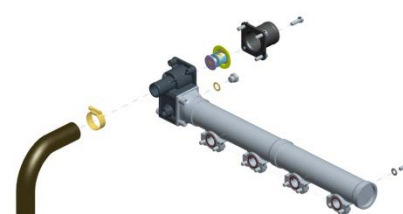
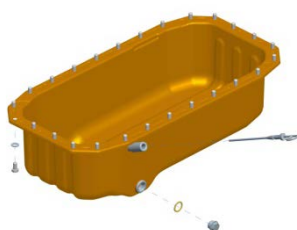
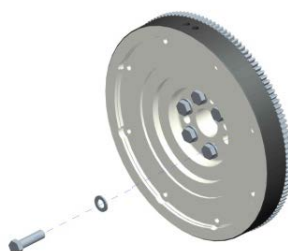
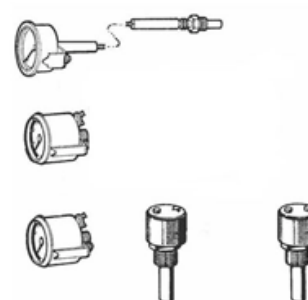
Level	Part Number	Description	Quantity
.1	P21101700016	Cam Shaft	1
..2	P21103250014	Tappet	8
..2	P21101700024	Chilled Camshaft Finish	1
...3	P21101700023	Semi-Finish Chilled Camshaft	1
....4	P21101700022	Camshaft Chilled Casting	1
..2	P21106730014	Segment for Camshaft	1
..2	602000500825	Hex screw (M8x1.25x25 Cl8.8)	6
..2	P21103710034	Gear, Camshaft	1
..2	602201000614	Solid Dowel Pin M6x14mm	1
..2	602150100084	Washer (M8x17x1.6)	6

Level '1' assembly P21101700016 in above example is at the top position in BOM/Assembly. Level '2' items namely P21103250014, P21101700024, are included in P21101700016. Hence, these items are shifted to the right of P21101700016 by one space. P21101700024 in turn includes parts, namely P21101700023. As P21101700024 is of level '2' here, these parts are of level '3'. Hence, these are shifted to the right of P21101700024 by one more space. In above example if you order a Cam Shaft P21101700016 of level '1', you will receive all the parts of level '2', '3', and '4'. If you order on sub assembly P21101700024 of level '2', you will receive all the parts of level '3' listed below this level '2' subassembly. If required, parts of level '2' & level '3' can be ordered individually.

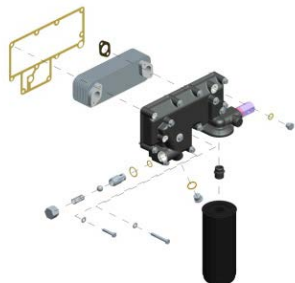
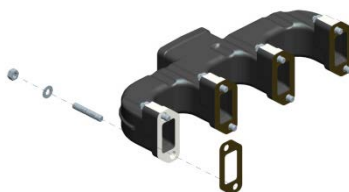
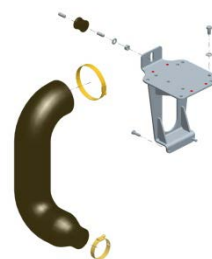
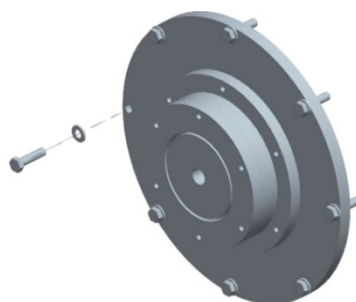
Revisions in Spare Parts Catalogue

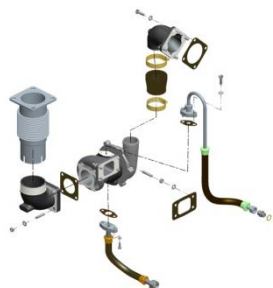
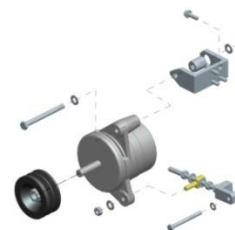
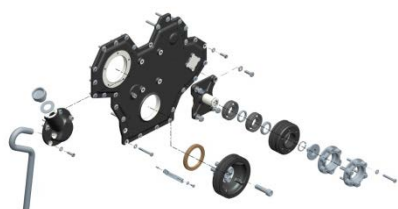
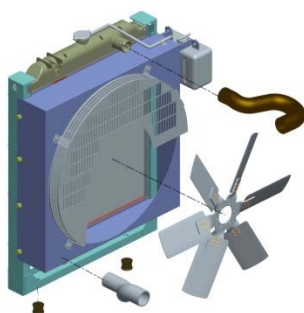
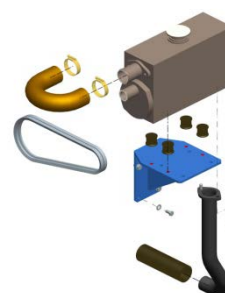
Revision No.	Modification Summary	Date of Revision
00	Customized New Release (as per new fire pump BOM standardization)	18-09-2014
01		
02		
03		

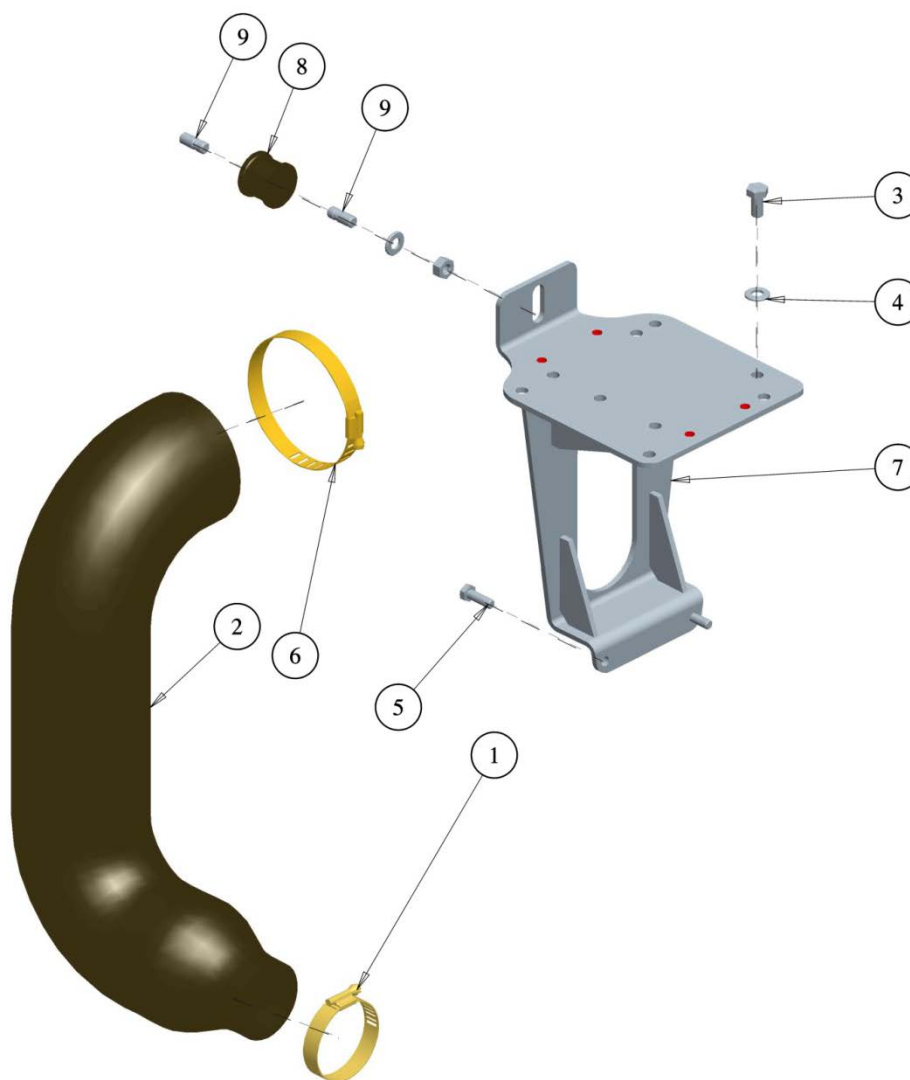
Browse through Group of Spare Parts

4G11T-BASE ENGINE GROUP[Crank Case](#)[Crankshaft](#)[Camshaft](#)[Connecting Rod & Piston](#)[Cylinder Head](#)[Gear Casing](#)[Gear Train](#)[Housing Flywheel](#)[Water Manifold](#)[Oil Sump](#)[Flywheel](#)[Electrical & Sensor](#)

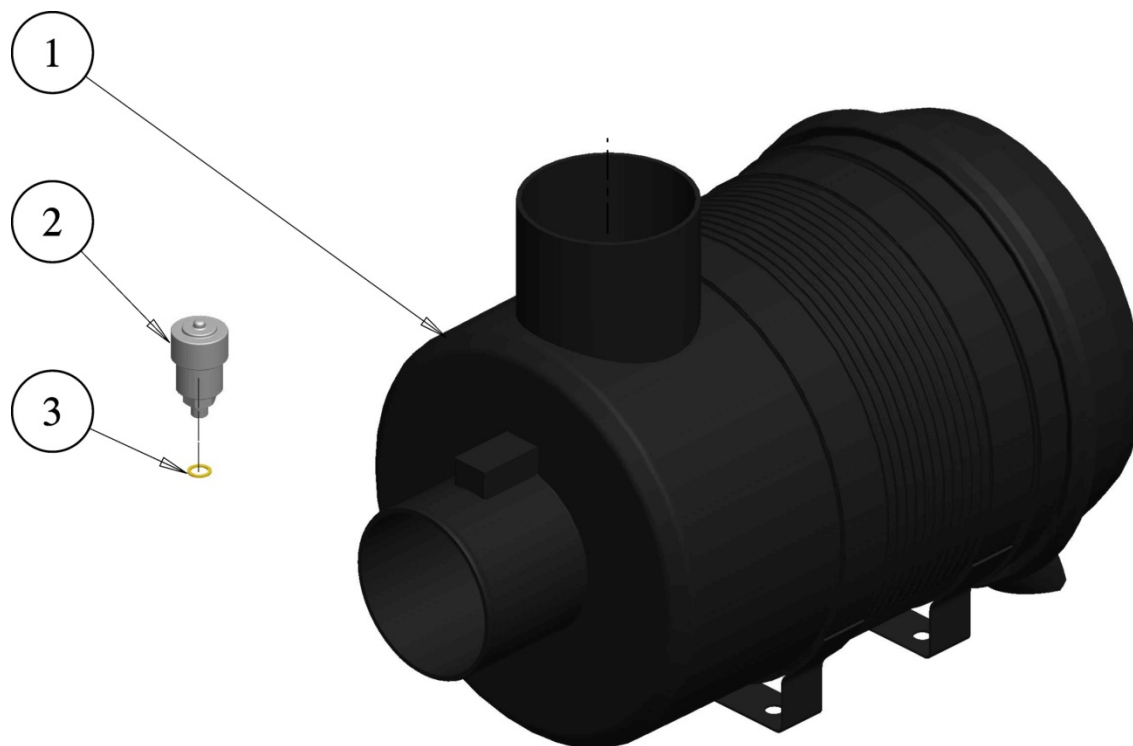
Continued...

4G11T COMMON GROUP[Oil Header](#)[Air Inlet Manifold](#)[Fuel Pump](#)[Fuel Solenoid](#)[Exhaust Manifold](#)[Air Filter Mounting](#)[Air Filter](#)[Engine Bearer Assembly](#)[Starter](#)[Water Separator](#)[Coupling Assembly](#)[Water Inlet Pipe](#)

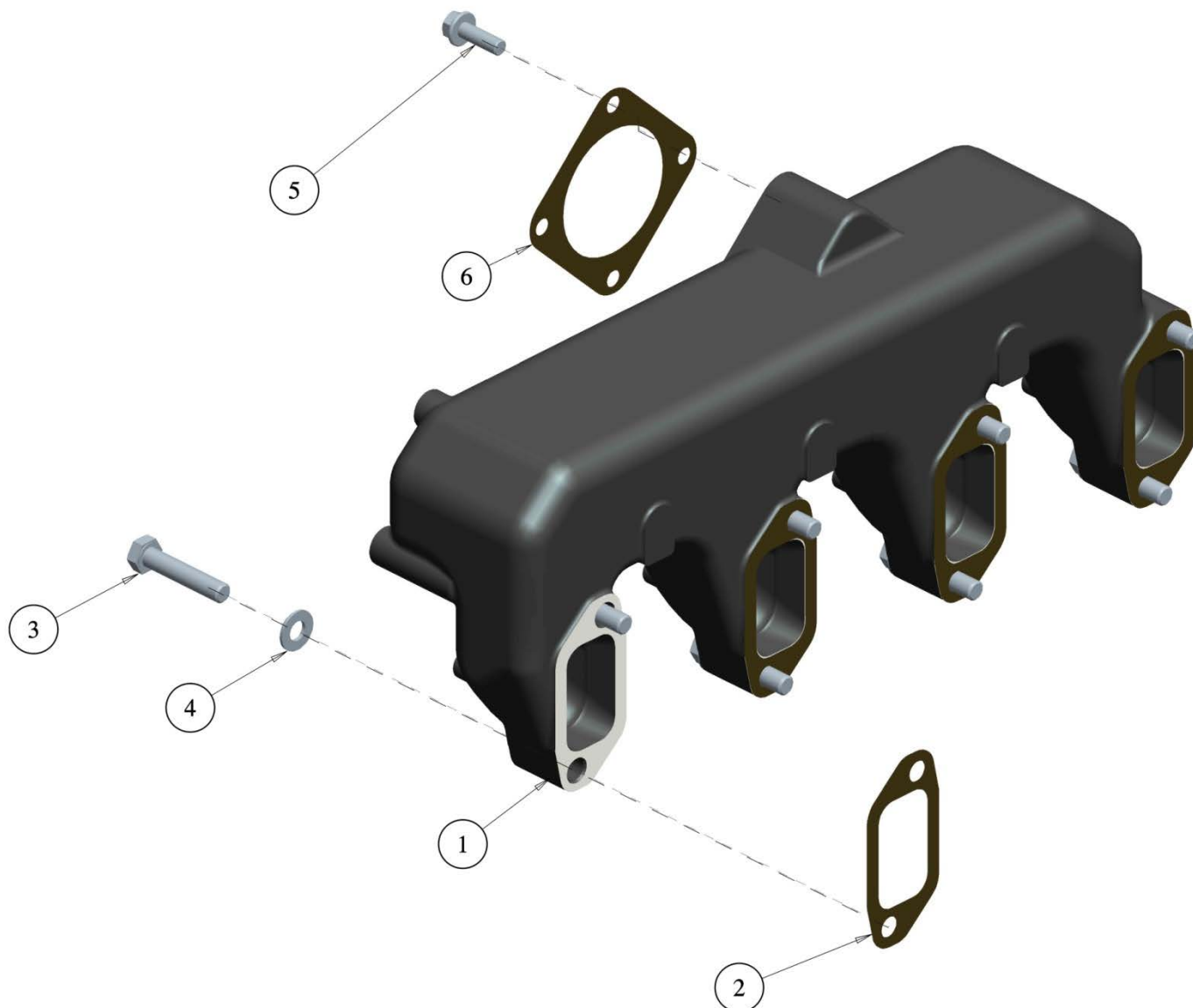
4G11T COMMON GROUP[Turbocharger Assembly](#)**4G11T-RC GROUP**[Alternator Assembly](#)[4G11T-RC](#)[4G11T-HE](#)**4G11T-HE GROUP**[Alternator](#)[Front Cover](#)[Front Cover Assembly](#)[Radiator Assembly](#)[Heat Exchanger Assembly](#)

Air Filter Mounting

Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21109230067	AIR CLEANER MTG ARRANGE FOR TA	1	
1	..2	604015300650	HOSECLIP 60-80/3X	1	
2	..2	P21108610114	HOSE DIA 60/106 FOR 8m3	1	
3	..2	602000501020	HEXSCREW=M10X1.5X20 8.8CL	4	
4	..2	141103400044	PLAIN WASHER M10 200HV	4	
5	..2	141103510825	FLANGED BOLT M8X1.25X25 8.8	2	
6	..2	604015301050	HOSECLIP 100-125/6	1	
7	..2	P21106232744	BRACKET-AIR FILTER	1	
8	..2	606500100006	A V MOUNTG-A2T/4030B	1	
9	..2	602011001015	STUD BOLT M10X16.5.8/CL	2	

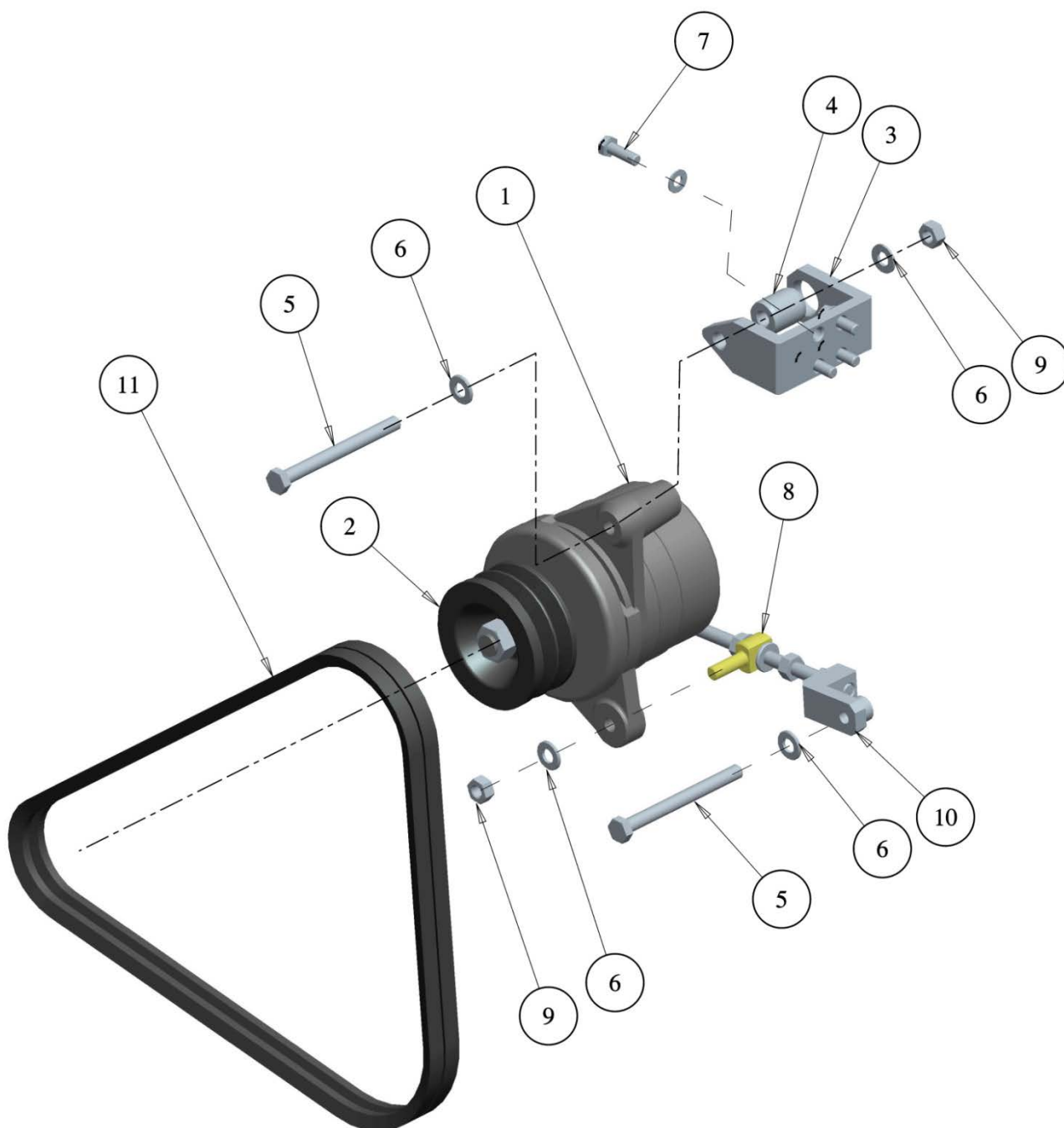
Air Filter 4g11t/Tap Twin Element

Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21109230217	AIR FILTER 4G11TA/TAP TWIN ELEMENT	1	
1	..2	P21109230197	AIR FILTER MAHALE TWIN ELEMENT	1	
-	...3	P21109230191	PRI-FLTR ELEMENT MAHALE	1	
-	...3	P21109230192	SEC.FILT. ELEMENT MAHALE	1	
2	..2	105761010002	RESTRICTION INDICATOR	1	
3	..2	604920101014	CU.WASHER	4	

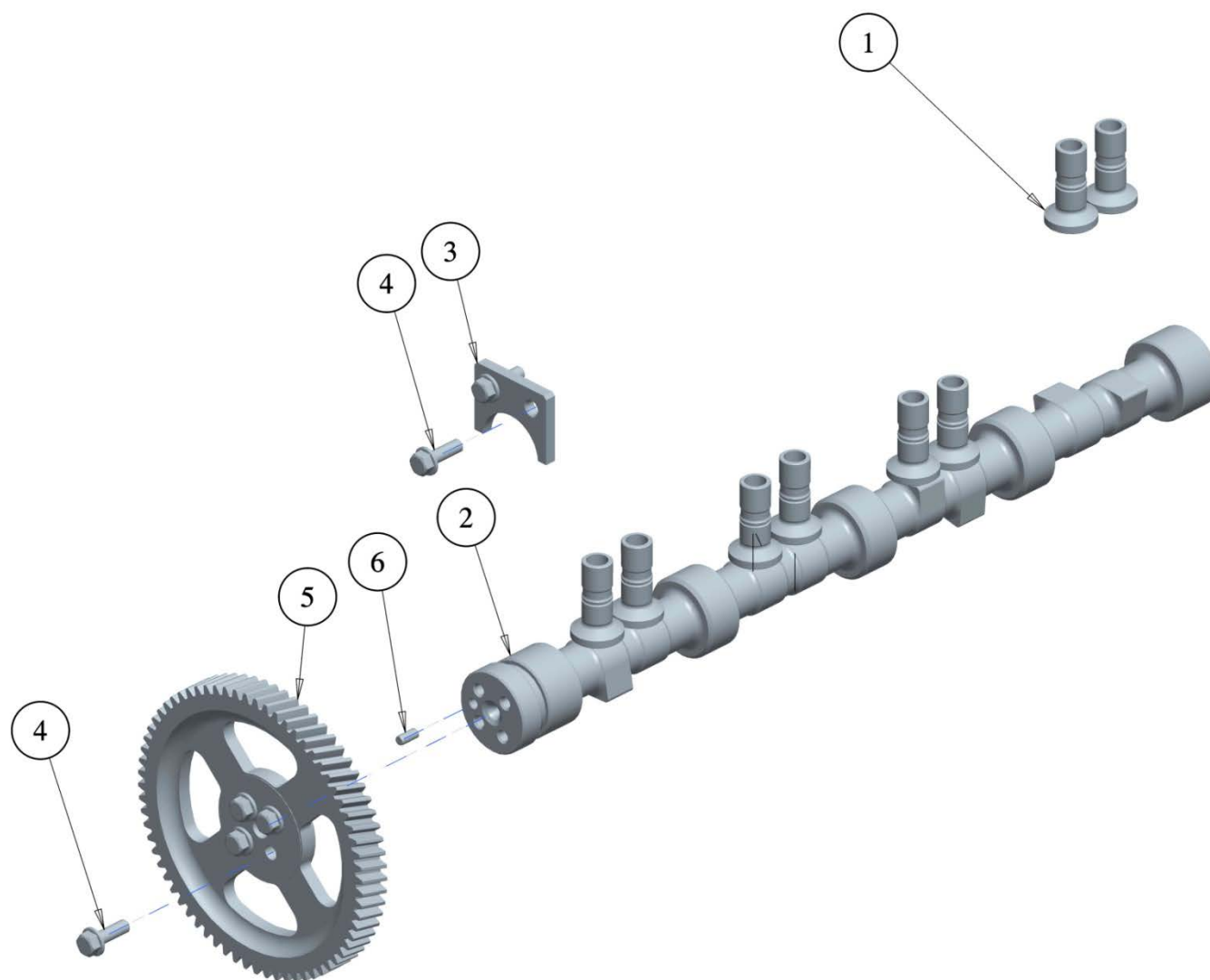
Air Inlet Manifold

Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21109200027	AIR INTAKE MANIFOLD ASSLY TA	1	
1	..2	P21109200014	AIR INTAKE MANIFOLD M/C 4G11	1	
2	..2	P21108510014	GASKET, AIR INTAKE MANIFOLD	4	
3	..2	602000101050	HEX BOLT M10X50 8.8/CL	8	
4	..2	141103400044	PLAIN WASHER M10 200HV	8	
5	..2	141103510825	FLANGED BOLT M8X1.25X25 8.8	4	
6	..2	P21108510024	GASKET, AIR INTAKE MANIFOLD END SIDE	1	

Alternator Arrangement

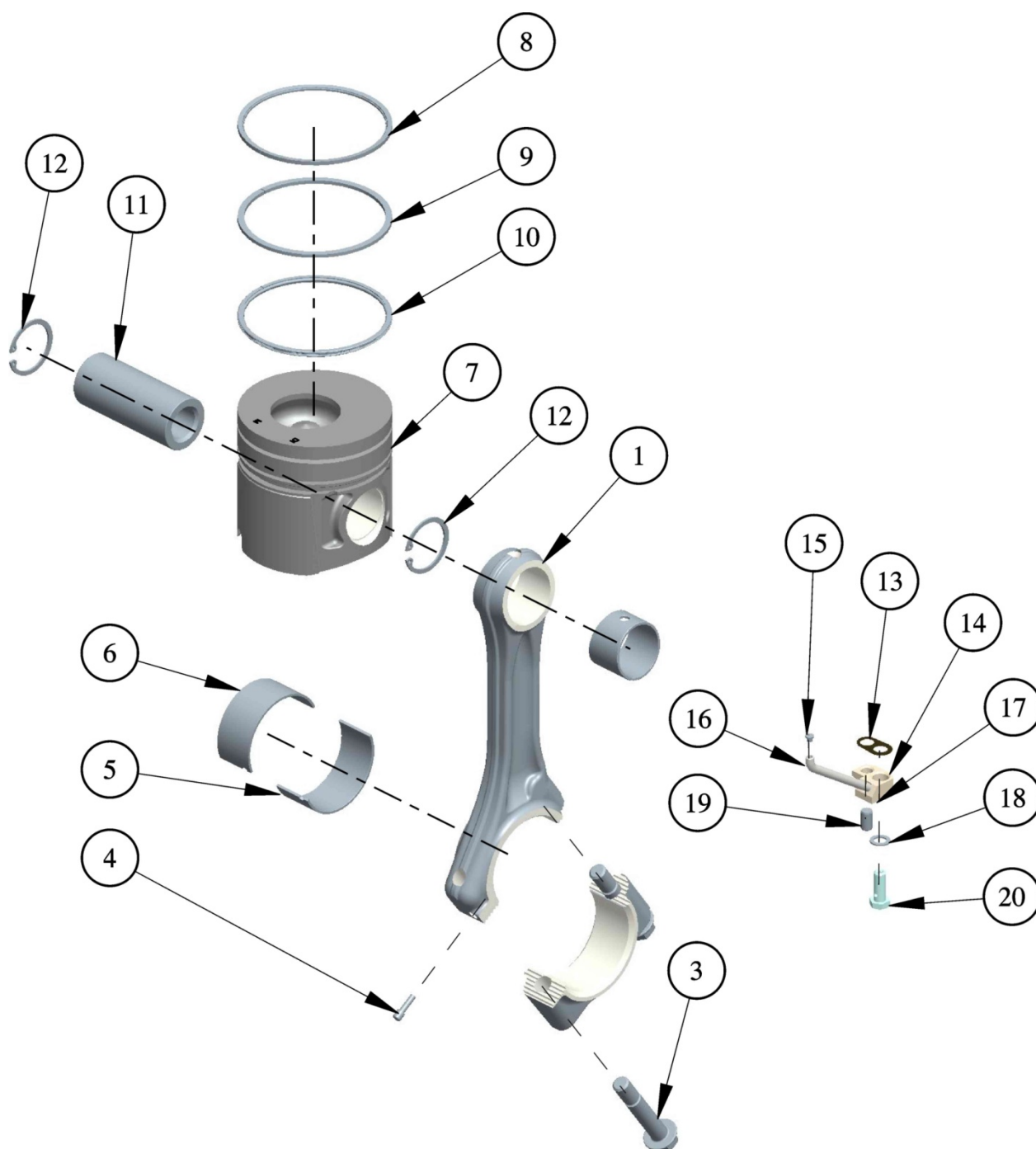


Ref No.	Level No.	Part No.	Description	Qty	Remarks
	..1	P21190790017	ALTERNATOR ARRANGEMENT	1	
1	..2	000767530321	ALT.W/O PULLY AUTLECK/SPR 12V_36A	1	
2	...3	P21103810034	PULLEY FOR ALTERNATOR DRIVE	1	
3	..2	P21106230035	BRACKET CHARGING ALT G11	1	
4	..2	P21103300064	SPACER ALTR MTG CAST BRACKET	1	
5	..2	602000101011	BOLT M10X110D/234-CL/10.9	1	
6	..2	141103400044	PLAIN WASHER M10 200HV	5	
7	..2	141103510825	FLANGED BOLT M8X1.25X25 8.8	4	
8	..2	P21103510024	SWIVEL BOLT	1	
9	..2	602100540100	HEX. NUT M10 DIN 934M-10	3	
10	..2	P21103510045	TENSION BOLT- FABRICATED	1	
11	..2	P03450211143	COGGED BELT AX43-1143L	2	
-	..2	602000100885	HEXBOLT=M8X1.25X85-8.8CL	1	
*	..2	141103400034	PLAIN WASHER M8 200HV	1	
9	..2	602100540100	HEX. NUT M10 DIN 934M-10	1	

Camshaft

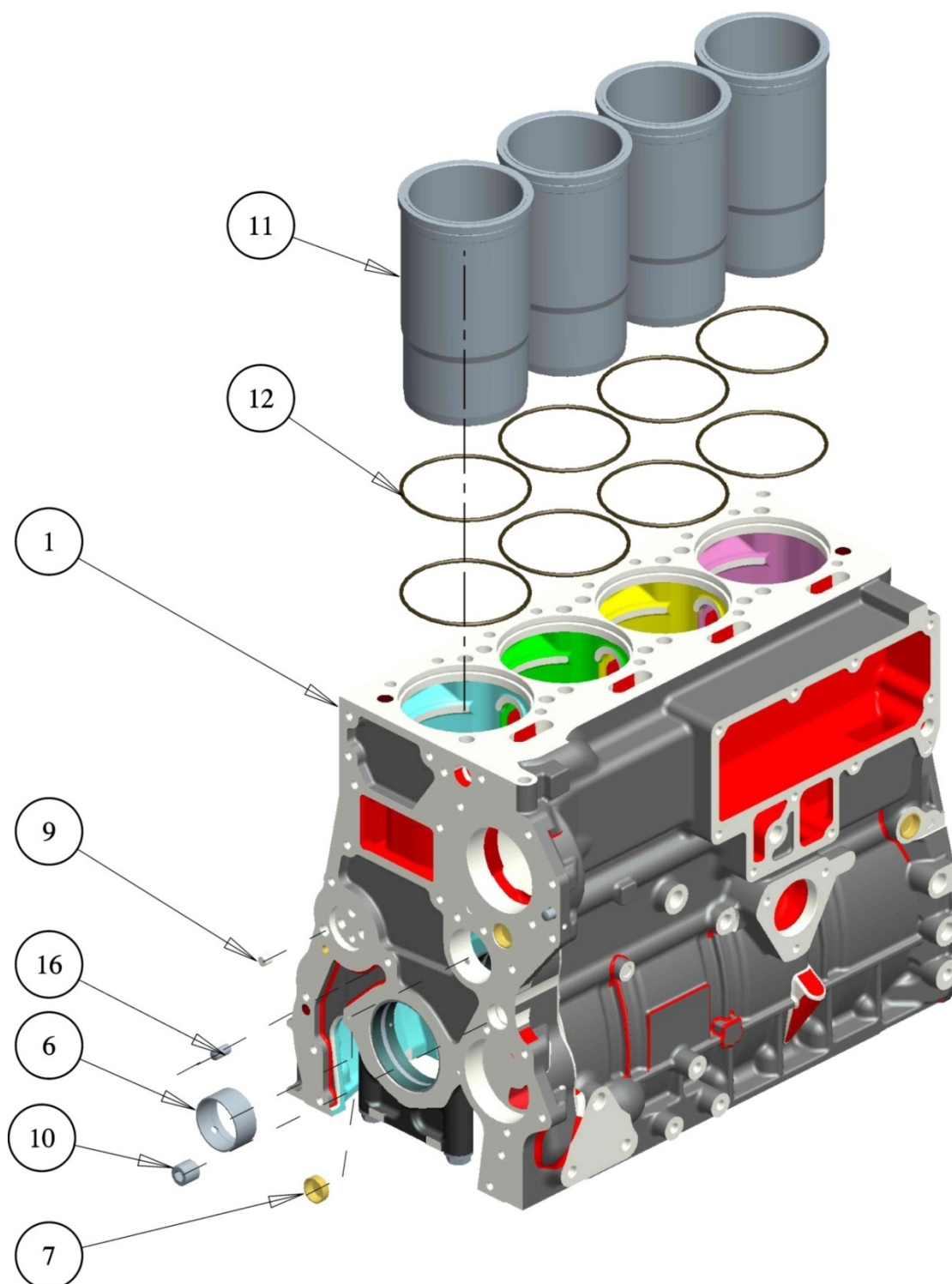
Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21101700016	CAM SHAFT GA	1	
1	..2	P21103250014	TAPPET	8	
2	..2	P21101700024	CHILLED CAMSHAFT FINISH 4G11	1	
-	...3	P21101700023	4G11 SEMI-FINISH CHILLED CAMSHAFT	1	
3	..2	P21106730014	SEGMENT FOR CAMSHAFT	1	
4	..2	141103510825	FLANGED BOLT M8X1.25X25 8.8	6	
5	..2	P21103710034	GEAR, CAMSHAFT	1	
6	..2	602201000614	SOLID DOWEL PIN M6X14MM	1	

Connecting Rod Assembly

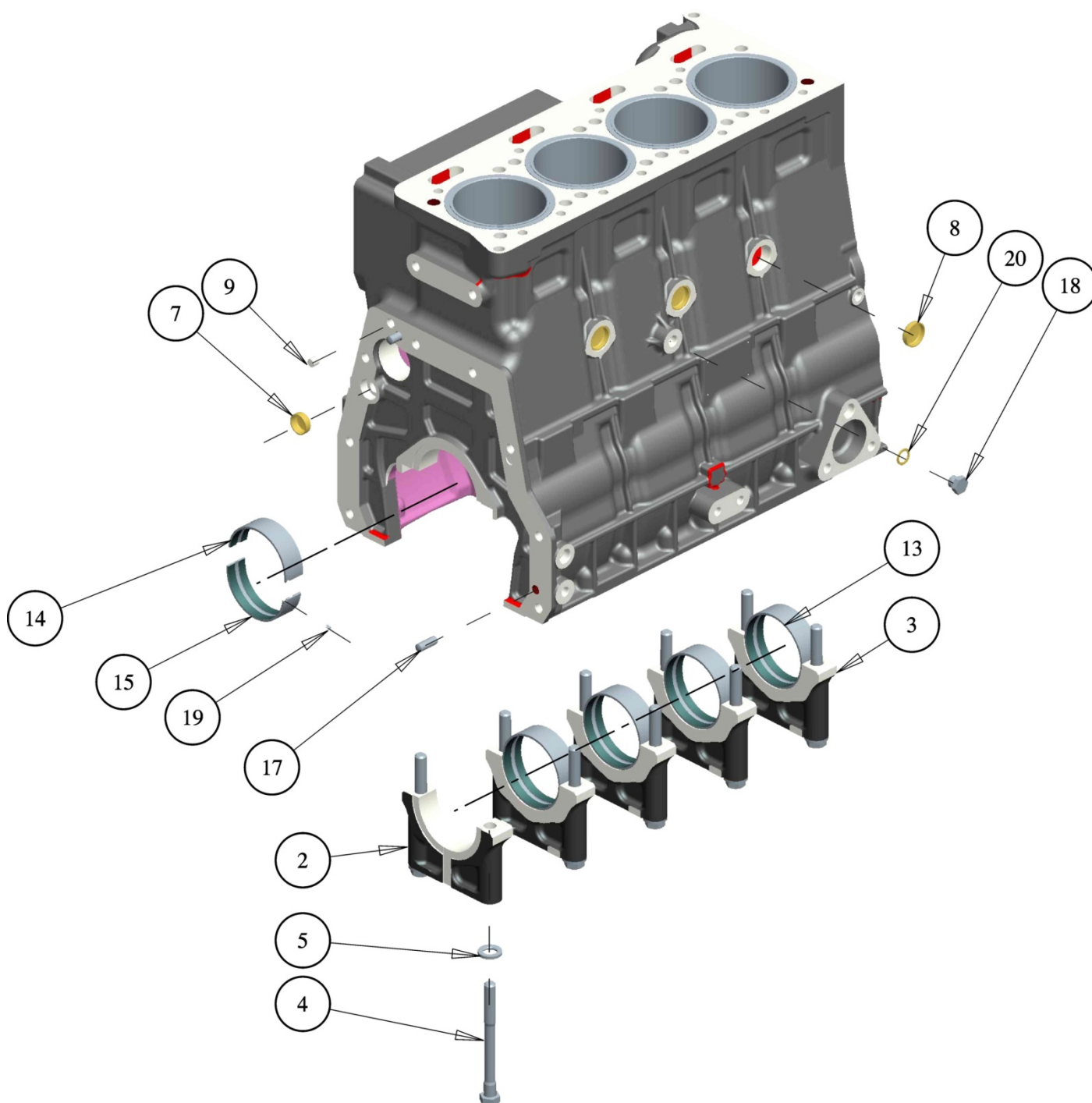


Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21101600039	CON ROD+PISTON ASSLY G11 T 56HP/1500R	4	
	..2	P21101600018	CON ROD ASSLY COMPLETE	4	
	...3	P21101500017	CONN.ROD & CAP ASSLY.	4	
1	4	P21101500026	CONNECTING ROD WITH SERRATIONS	4	
2	5	P21103530024	CON.ROD BOLT M12X1.25X67	8	
3	4	P21104310012	BUSH CONN ROD S/END	4	
4	4	P02201000414	LOCKING PIN	4	
-	...3	P21104306017	CON ROD BRG SET (TOP + BOTTOM) LEON	4	
5	4	P21104306014	CONN. ROD BRG. (TOP)	4	
6	4	P21104306024	CONN. ROD BIG END BRG (BOTTOM)	4	
-	..2	P21101600026	PISTON ASSY+PR SET 4G11TAG3	4	
7	...3	P21101600044	PISTON 4G11 NA COMP. RATIO 18:1	4	
8	...3	105032111061	TRAPEZOIDAL PISTON RING	4	
9	...3	105032111062	TAPERED PISTON RING-LEON	4	
10	...3	105032111063	OIL CONT. PISTON RING	4	
11	...3	P05020303801	GUDGEON PIN - PISTON	4	
12	...3	603050100016	CIRCLIP, LIGHT A 16 IS3075	8	
13	..2	P21108530134	GASKET, PISTON COOLING NOZZLE	4	
14	..2	P21104650046	PISTON COOLING NOZZLE ASSLY	4	
15	...3	P21103550024	TIP FOR PISTON COOLING NOZZLE	4	
16	...3	P21109010034	TUBE, PISTON COOLING NOZZLE	4	
17	...3	P21104650044	BODY PISTON COOLING NOZZLE(MS)	4	
18	..2	604920100814	COPPER WASHER	4	
19	..2	602201000814	PISTON COOLING NOZZLE DOWEL	4	
20	..2	P04043300826	BANJO SCREW M8X26	4	

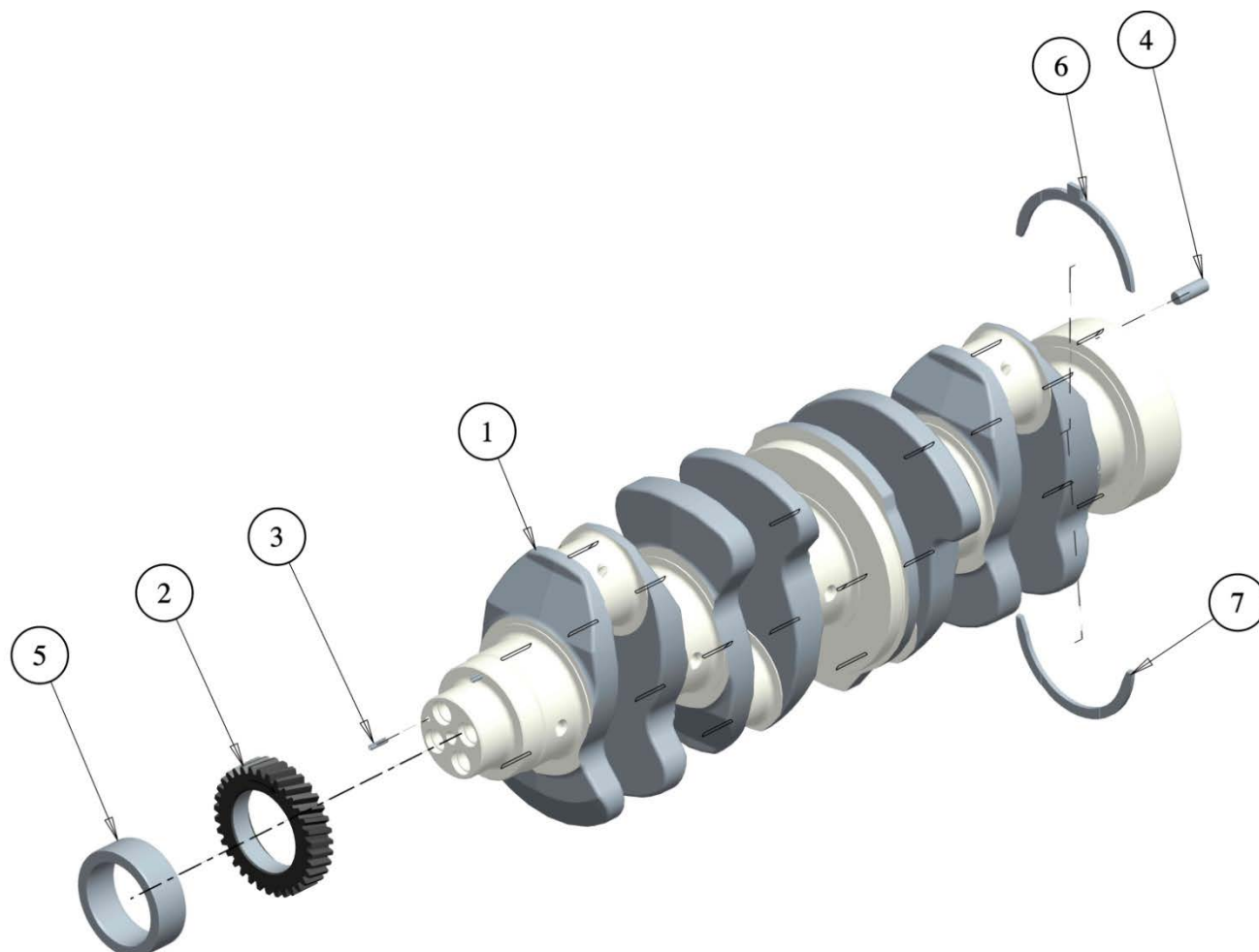
Crank Case Assembly



Crank Case Assembly

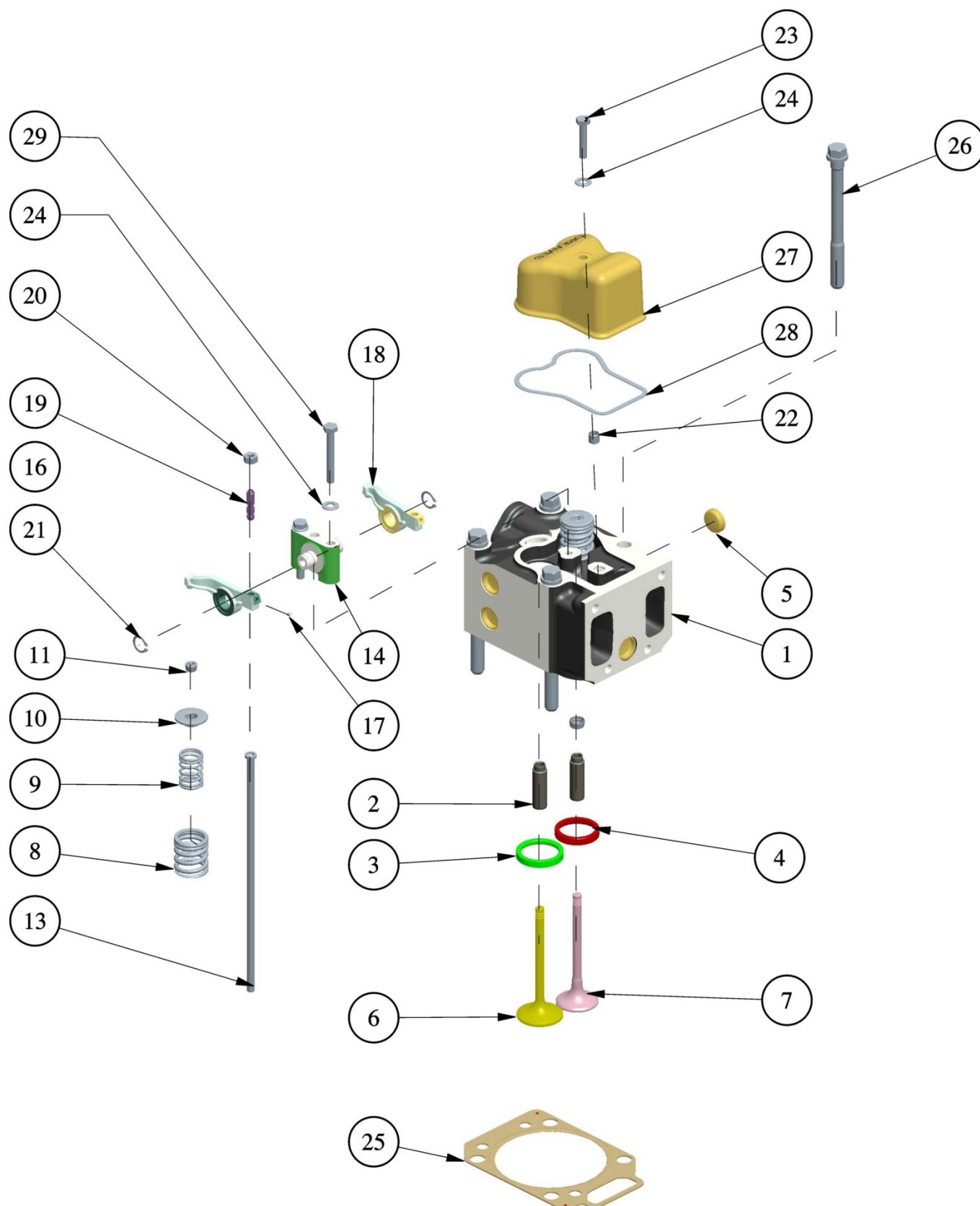


Ref No.	Level No.	Part No.	Description	Qty	Remarks
	..1	141101100018	CRANK CASE ASSLY	1	
	..2	141101100037	CRANK CASE WITH CAM BUSH	1	
	...3	141101100036	CRANK CASE MACHINED FINISHED	1	
1	4	P21101100015	CRANK CASE MACHINED STAGE 1	1	
2	4	P21101010012	MAIN BEARING CAPS TYPE 1 S/F	1	
3	4	141101010032	MAIN BEARING CAP TYPE 3 S/F	4	
4	4	P21103500024	MAIN BEARING CAP BOLTS G11	10	
5	4	P21103400054	WASHER FOR MB CAP	10	
6	4	P21104320012	CAM BUSH SEMI FINISH	1	
7	...3	620609760024	BRASS CAP	4	
8	...3	620609760014	CAP BRASS	3	
9	...3	632413270014	STOPPER 10X11 ALUM PLUG	8	
10	...3	102041002020	GRUB SCREW M20X20MM LG	1	
-	...3	623413270044	PLUG ALU.	2	
11	..2	141101320024	CY LINER (105 BORE) G SERIES	4	
12	..2	104932111144	O RING, (LINER)	8	
13	..2	141104306017	MAIN BEARING G11	5	
14	...3	P21104300014	M BRG HALF TOP SHELL	5	
15	...3	P21104300024	M BRG HALF BOTTOM SHELL	5	
16	..2	602201001020	SOLID DOWEL PIN M10X20MM	2	
17	..2	602201001028	SOLID DOWEL PIN M10X28MM	2	
19	..2	602201500406	SPRING DOWEL PIN 4X6MM	5	
18	..2	602060501415	HEX PLUG M14X1.5	1	
20	..2	604920101420	CU.WASHER	1	

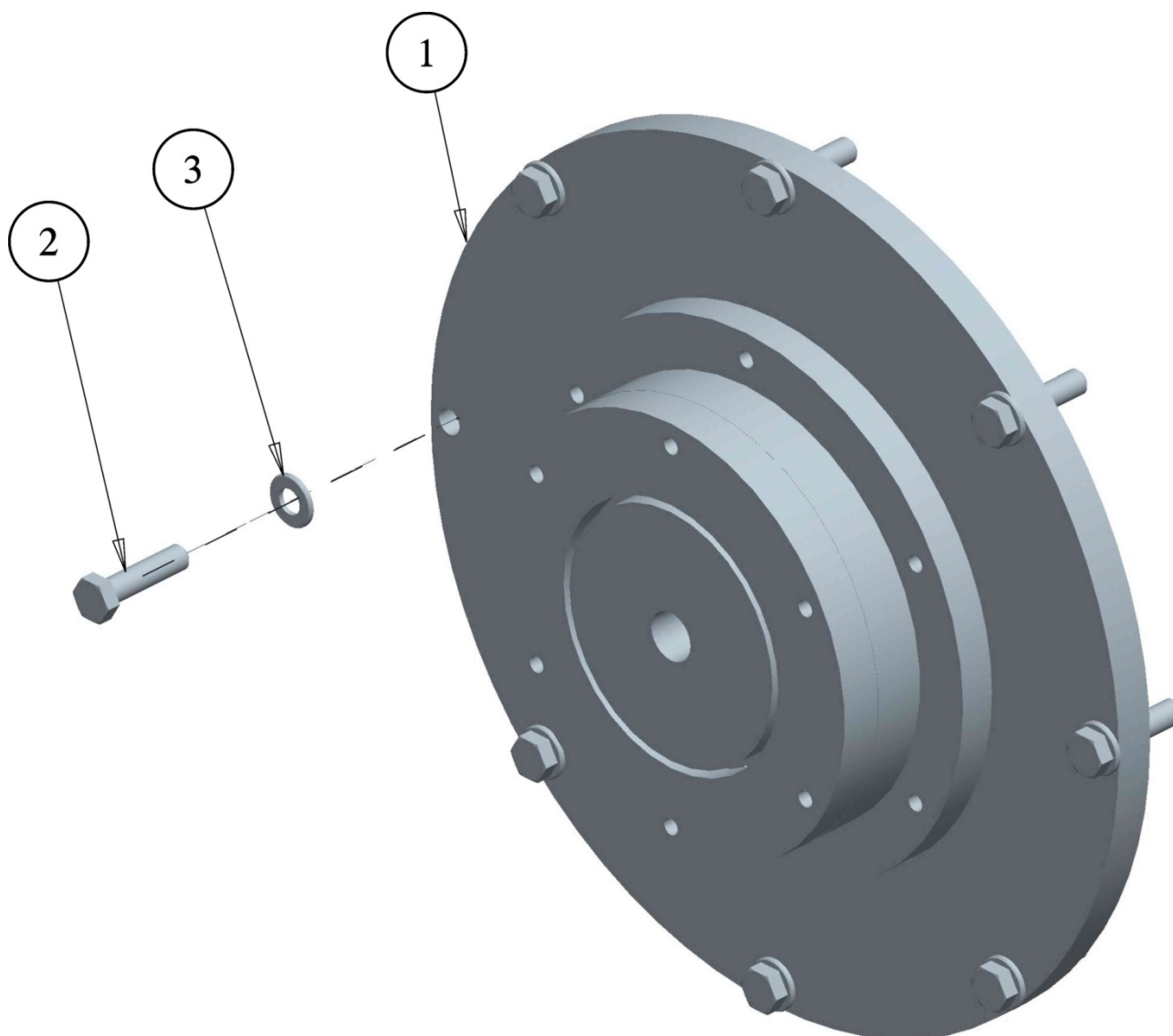
Crank Shaft Assembly

Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21101400057	CRANK SHAFT GA FOR 4G11TA/TAP	1	
1	..2	P21101400056	CRANKSHAFT ASSLY FOR 4G11TA/TAP	1	
	...3	P21101400054	CRANKSHAFT FINISHED FOR 4G11TA/TAP	1	
	4	P21101400052	CRANKSHAFT S/F WITH HOLES FOR 4G11TA/TAP	1	
2	...3	P21103710014	GEAR, CRANKSHAFT	1	
3	...3	602201500416	SPRING DOWEL PIN M4X16MM	2	
4	...3	602201001028	SOLID DOWEL PIN M10X28MM	1	
5	..2	P21103300014	CRANKSHAFT SLEEVE	1	
-	..2	141103400017	THRUST WASHER PAIR	2	
6	...3	P21103400014	THRUST WASHER(CR.SHAFT)TOP	2	
7	...3	P21103400024	THRUST WASHER(C/S)BOTTOM	2	

Cylinder Head Assembly

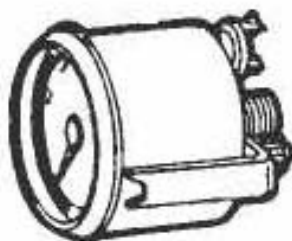
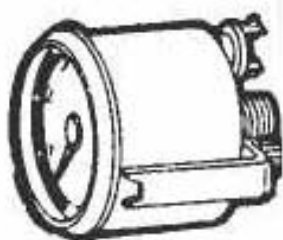
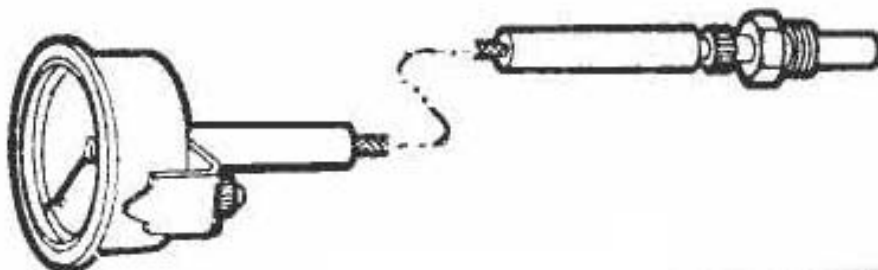


Ref No.	Level No.	Part No.	Description	Qty	Remarks
	..1	141101804018	CYL HEAD ASSMBLY G A G11TAG3	4	
	..2	P21101800017	CYL HEAD SUB ASSY	4	
	...3	P21101800016	CYL. HEAD ASSLY WITH INSERTS	4	
1	4	P21101800014	CYLINDER HEAD-MACHINED	4	
2	4	P21103320012	VALVE GUIDE	8	
3	4	P21103450022	INLET VALVE SEAT INSERT S/F	4	
4	4	P21103450012	EXHAUST VALVE SEAT INSERT S/F	4	
5	4	602152180025	CORE PLUG 25MM	24	
6	...3	P21104600014	INLET VALVE	4	
7	...3	P21104600024	EXHAUST VALVE	4	
8	...3	P02403101001	VALVE SPRING OUTER	8	
9	...3	P02402201001	VALVE SPRING INNER	8	
10	...3	P21103420014	SPRING CAP	8	
11	...3	P21104620014	VALVE COLLET	16	
12	...3	P04960650121	VALVE STEM SEAL	8	
13	..2	P21103210014	PUSH ROD	8	
14	..2	P21106100027	INTEGRATED ROCKER ASSEMBLY	4	
15	...3	P21106100024	INTEGRATED ROCKER SUPPORT	4	
16	...3	P21106450014	ROCKER ARM INLET	4	
17	...3	P21103270014	PLUG AL - DIA 4 X 3.5L	8	
18	...3	P21106450024	ROCKER ARM EXHAUST	4	
19	...3	P21103580014	SETTING SCREW	8	
20	...3	602100540080	HEX. NUT M8 DIN 934	8	
21	...3	603050100016	CIRCLIP, LIGHT A 16 IS3075	8	
22	..2	102201501108	HOLLOW DOWEL M11X8MM	4	
23	..2	602000100840	HEXBOLT=M8X1.25X40 8.8/CL	4	
24	..2	141103400034	PLAIN WASHER M8 200HV	8	
25	..2	P21108540024	GASKET CYL HD 4G11TAG3MLS	4	
26	..2	P21103500014	BOLT, CYL. HEAD M14X150	16	
27	..2	P21107960024	PDC ROCKER COVER	4	
28	..2	P21108530304	GASKET, FOR PDC ROCKER COVER	4	
29	..2	602000120860	HEXBOLT=M8X1.25X60 10.9CL	8	
-	..2	604920100814	COPPER WASHER	4	

Coupling Assembly0.2rb

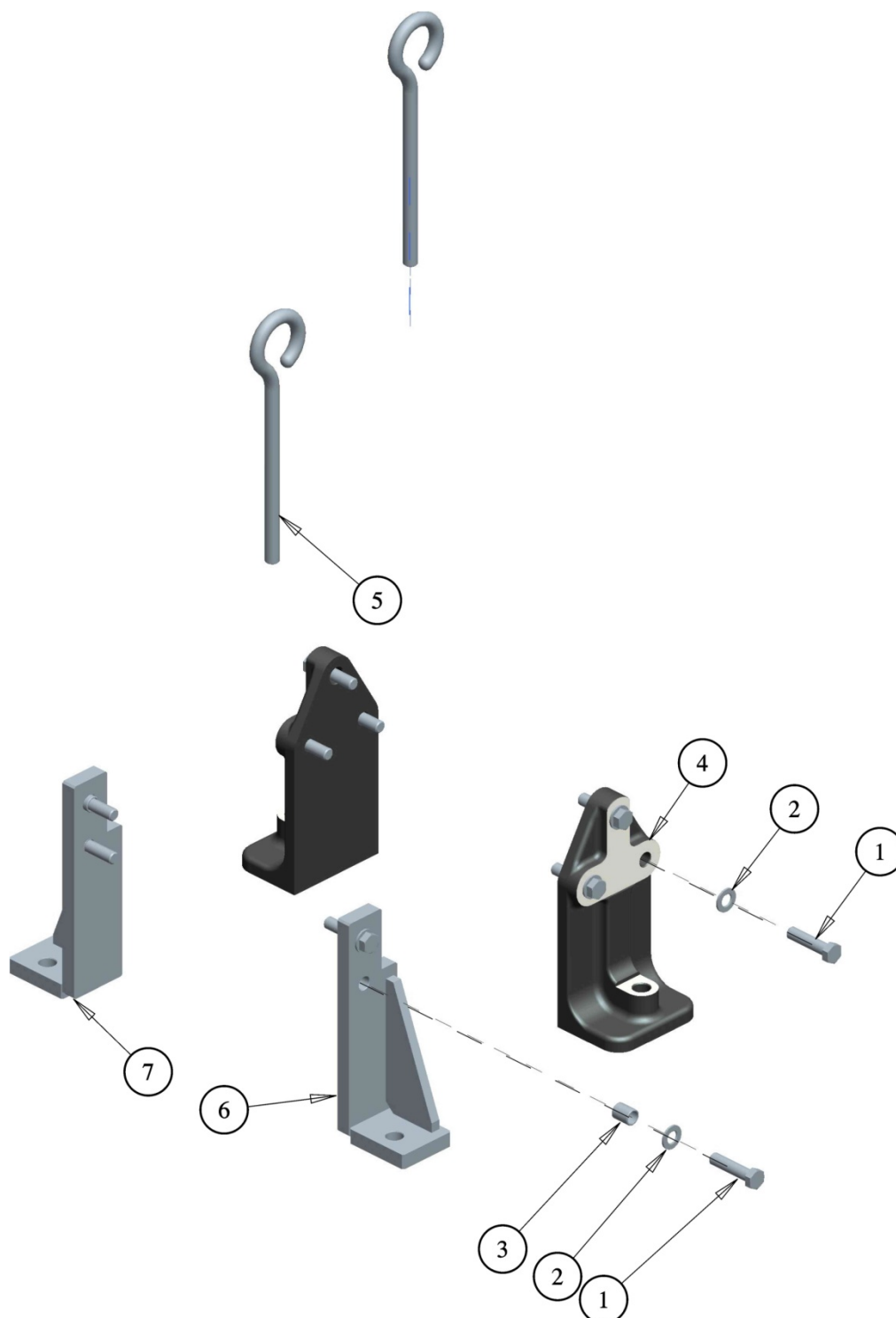
Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21190320048	COUPLING ASSLY 0.2 RB 20MM	1	
1	..2	P21190320047	COUP.2 RB 11.5 PILOT BORE 20MM	1	
2	..2	602000501040	HEX SCREW-M10X40-933-8.8	8	
3	..2	141103400044	PLAIN WASHER M10 200HV	8	

Electrical and Sensors

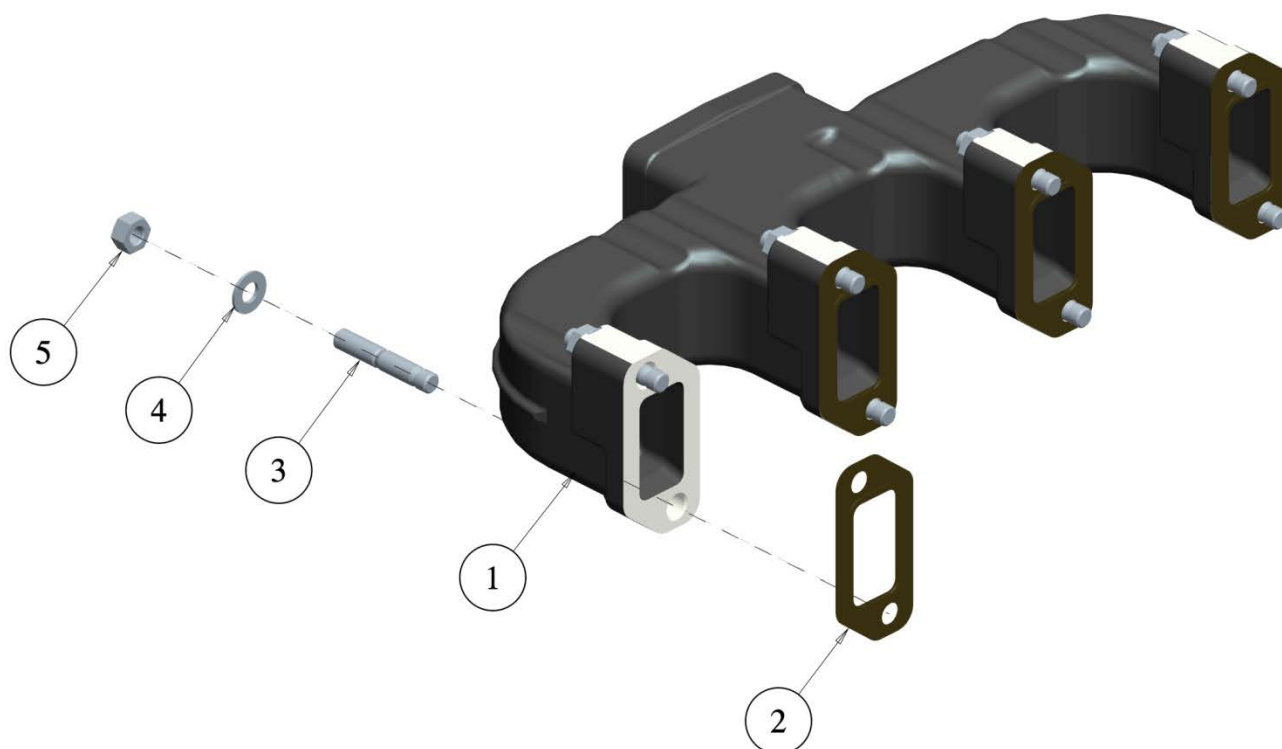


Ref No.	Level No.	Part No.	Description	Qty	Remarks
	..1	141199800107	ELECTRICAL & INSTRUMENT GROUP 3G/4G11-12	1	
	..2	105782010025	LOP SWITCH 2.5KG/SQCM	1	
	..2	105685090068	W T.SWITCH 95+/-2DEGCEL	1	
	..2	605685090030	SENSOR-FOR ETG ELECT. 24V	2	
	..2	001700530031	AMMETER	1	
	..2	000127320041	12V,TEMP.GAUGE(40-120 DEG.CEL)	2	
	..2	000127320043	12V,PRESS.GAUGE,0-10 BAR	1	
	..2	605616000006	PRESSURE TRANSDUCER	1	
	..2	100007760793	MAG.PICK UP-5/8"UNF,MS CO	1	
	..2	100007761194	35A FUSE LINK-QTY 5	1	
	..2	141190770586	EARTHING LINK FOR PLASTIC WATER MANIFOLD	1	
	..2	000247761943	DIODE 1A TYPE A 4007	1	
	..2	141190770116	C-HARNESS=4G11KRB101/202+LOTG	1	
	..2	100099801987	12V RELAY BOX ASSEMBLY	1	
	..2	604920101420	CU.WASHER	2	
	..2	604920101014	CU.WASHER	2	
	..2	604920102227	CU.WASHER=A22X1.5X27	1	
	..2	604021011820	PIPE-CLIP	2	
	..2	000207762177	CABLE TIE-150MM LENGTH	5	
	..2	141106370225	INSTR.PANEL CUM BKT.= KRB EPU+LOTG	1	
	..2	P21100780028	F/OFF SOL.+ EPU (KRB202) =4G11	1	
	...3	P21100780017	FUEL OFF SOL.12VDC WITH FINE	1	
	...3	P21190770028	EPU+WIRING=KRB202=STD=G11	1	
	4	100007760955	E P UNIT- KRB202 TEETH 134	1	
	4		EWD WITH KRB202 EPU = 4G11	1	
	..2	602060501015	SCREW PLUG M10X1.5	1	
	..2	P21103550344	ADAPTOR LOP SW/ LOP SENSOR M14X1.5,M10X1	1	
	..2	102100502015	HEX LOCK NUT M20X1.5 X 9 MM	1	

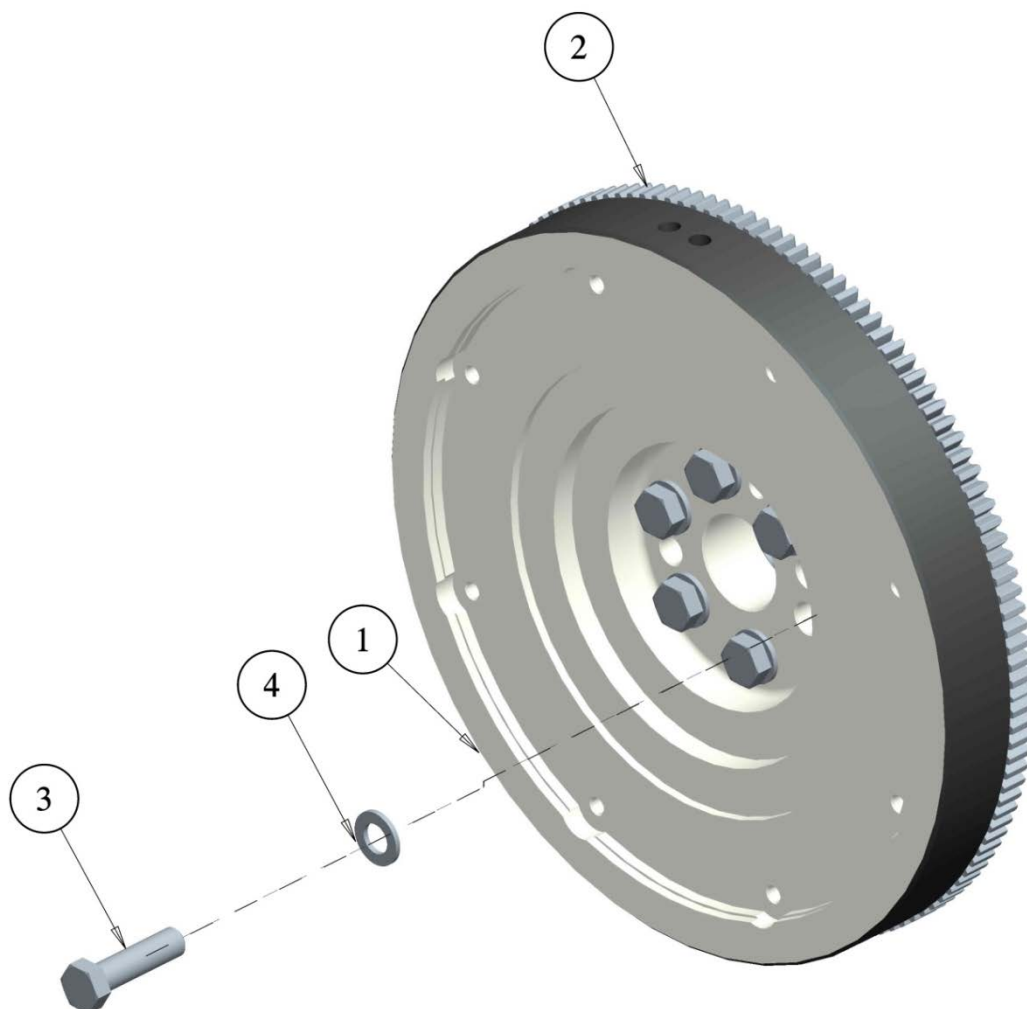
Engine Bearers



Ref No.	Level No.	Part No.	Description	Qty	Remarks
	0.1	P21106010027	ENGINE BEARERS FOR INDUSTRIAL	1	
1	..2	602000101250	HEXBOLT=M12X1.75X50 8.8/C	4	
2	..2	141103400054	PLAIN WASHER M12 200HV	4	
3	..2	102201501635	HOLLOW DOWEL M16X35MM	2	
4	..2	P21106010014	ENGINE FOOT (GEAR END)	2	
1	..2	602000101250	HEXBOLT=M12X1.75X50 8.8/C	6	
2	..2	141103400054	PLAIN WASHER M12 200HV	6	
3	..2	102201501635	HOLLOW DOWEL M16X35MM	2	
5	..2	P21103510034	LIFITNG I-BOLT M14	2	
-	..2	000090010401	HAMER DRIVESCREW NO2=3/16	4	
6	..2	P21106010045	ENGINE FOOT (FW END RHS) FABRI	1	
7	..2	P21106010055	ENGINE FOOT (FW END LHS) FABRI	1	

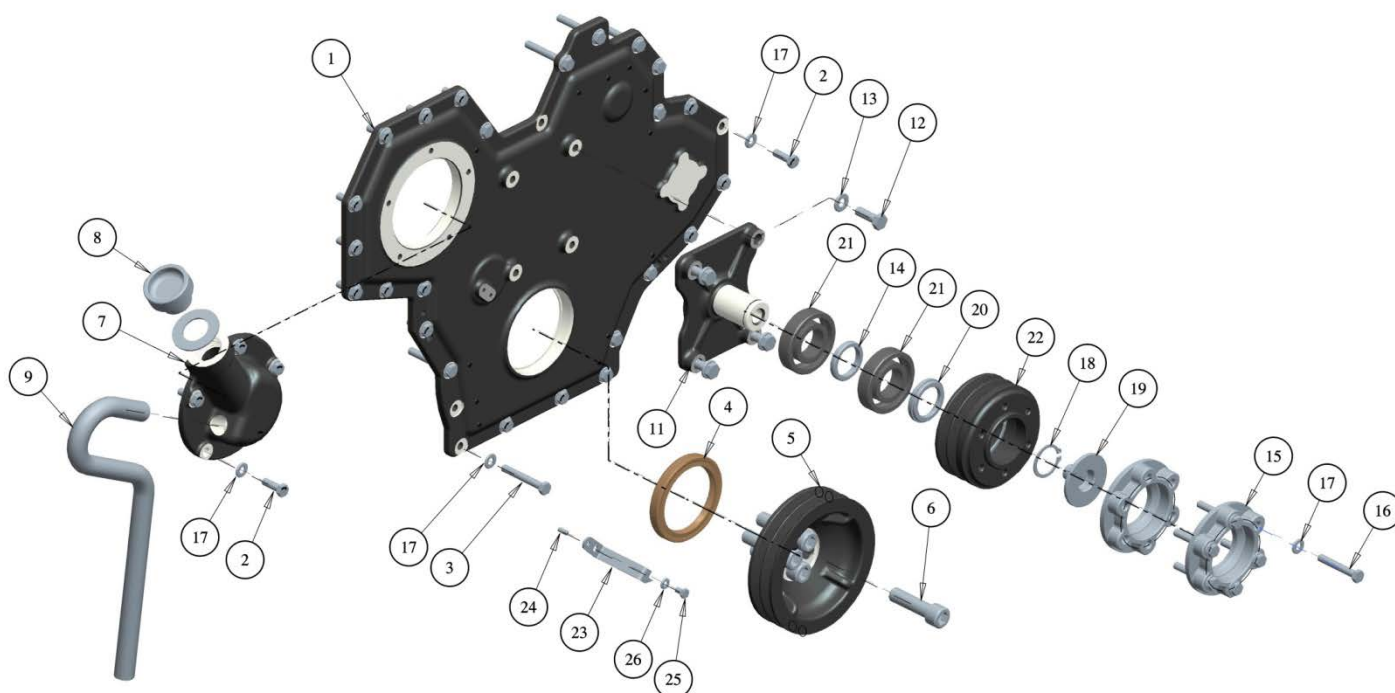
Exhaust Manifold

Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21109310017	EXHAUST MANIFOLD ASSLY.	1	
1	..2	P21109310014	MANIFOLD EXHAUST	1	
2	..2	P21108530104	GASKET, EXHAUST MANIFOLD	4	
3	..2	102011071050	STUD-M10X50L 10.9CL(CU COATED)	8	
4	..2	141103400044	PLAIN WASHER M10 200HV	8	
5	..2	602100700100	HEX NUT M10 CU COATED	8	

Flywheel Assembly

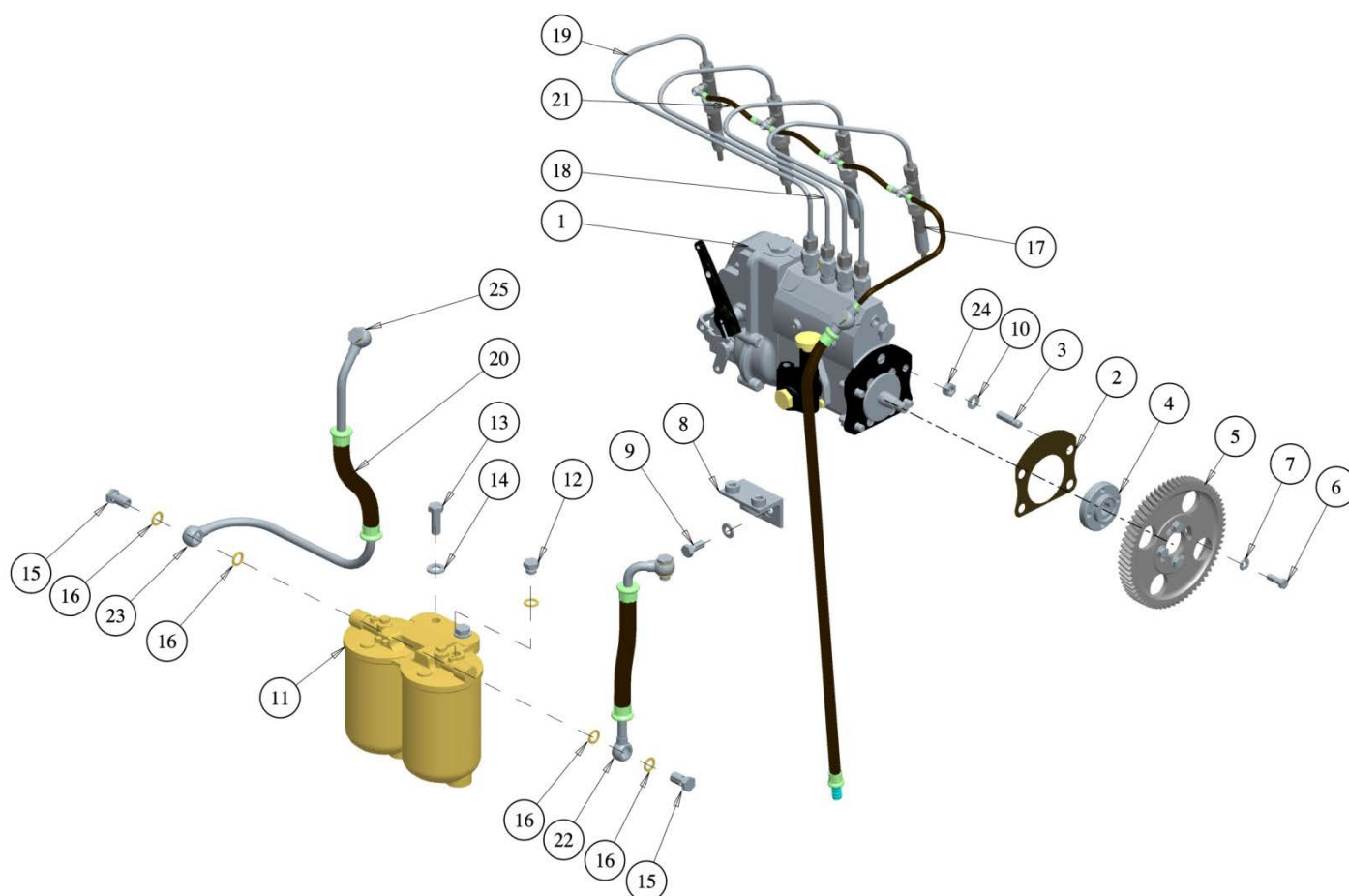
Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21101450017	FLYWHEEL ASSLY	1	
	..2	P21101450015	FLYWHEEL WITH RING GEAR-SAE 3	1	
1	...3	P21101450014	FLYWHEEL - SAE3	1	
2	...3	P21103750014	STARTER RING	1	
3	..2	602000521660	HEX SCREW M16X60-10.9	6	
4	..2	141103400074	PLAIN WASHER M16 200HV	6	

Front Cover Assembly



Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21107800077	FRONT COVER ASSLY WITH HEAVY FAN DRIVE	1	
1	..2	P21107800024	FRONT WALL COVER	1	
2	..2	141103510825	FLANGED BOLT M8X1.25X25 8.8	15	
3	..2	602000100860	HEXBOLT=M8X1.25X60 8.8CL	11	
4	..2	104960650100	OILSEAL 78-100-12	1	
5	..2	141103810154	CRANK PULLEY PASVN	1	
6	..2	602007041660	ALLEN SCREW M16X60-12.9	4	
-	..2	P21107870027	PLASTIC SPOUT ASM	1	
7	...3	P21107870064	PLASTIC SPOUT WITH PLATE	1	
8	...3	P21107870074	PLASTIC CAP FOR SPOUT	1	
9	...3	P21108610374	PIPE PLASTIC SPOUT	1	
2	...3	141103510825	FLANGED BOLT M8X1.25X25 8.8	5	
-	...3	001700531019	CLIP FOR CONDUIT	1	
10	..2	P21107350047	FAN DRIVE ASSLY HEAVY DUTY	1	
11	...3	P21106230014	Fan drive bracket machined	1	
12	...3	602000501030	HEX SCREW M10X30 933 8.8	4	
13	...3	141103400044	PLAIN WASHER M10 200HV	4	
14	...3	P21103300114	SPACER BETWEEN BEARINGS.	1	
15	...3	141103300124	PLASTIC SPACER G11	2	
16	...3	602000100855	HEXBOLT=M8X1.25X55 8.8CL	6	
17	...3	141103400034	PLAIN WASHER M8 200HV	6	
18	...3	603050100035	CIRCLIP 35 MM EXTERNAL	1	
19	...3	P21106230074	KNOB FOR FAN DRIVE	1	
20	...3	141103300184	SPACER FOR FAN BRACKET	1	
21	...3	603200746207	BALL BEARING SKF 6207-2RS1	2	
22	...3	141103810196	FAN PULLEY WITH BLANKING PLATE	1	
17	..2	141103400034	PLAIN WASHER M8 200HV	22	
16	..2	602000100855	HEXBOLT=M8X1.25X55 8.8CL	2	
17	..2	141103400034	PLAIN WASHER M8 200HV	2	
23	..2	P21106500024	POINTER	1	
24	..2	602201000512	SOLID DOWEL PIN M5X12MM	1	
25	..2	602000500610	HEX SCREW M6X10 8.8 CL	1	
26	..2	141103400084	PLAIN WASHER M6 200HV	1	

Fuel Pump Assembly

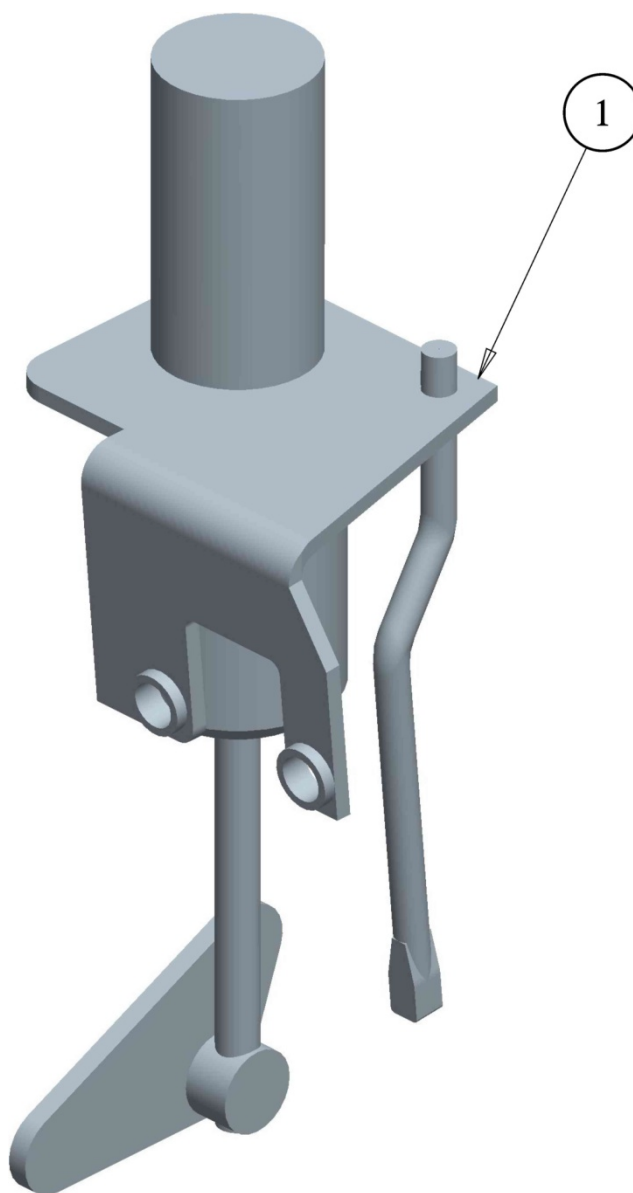


Fuel Pump Assembly

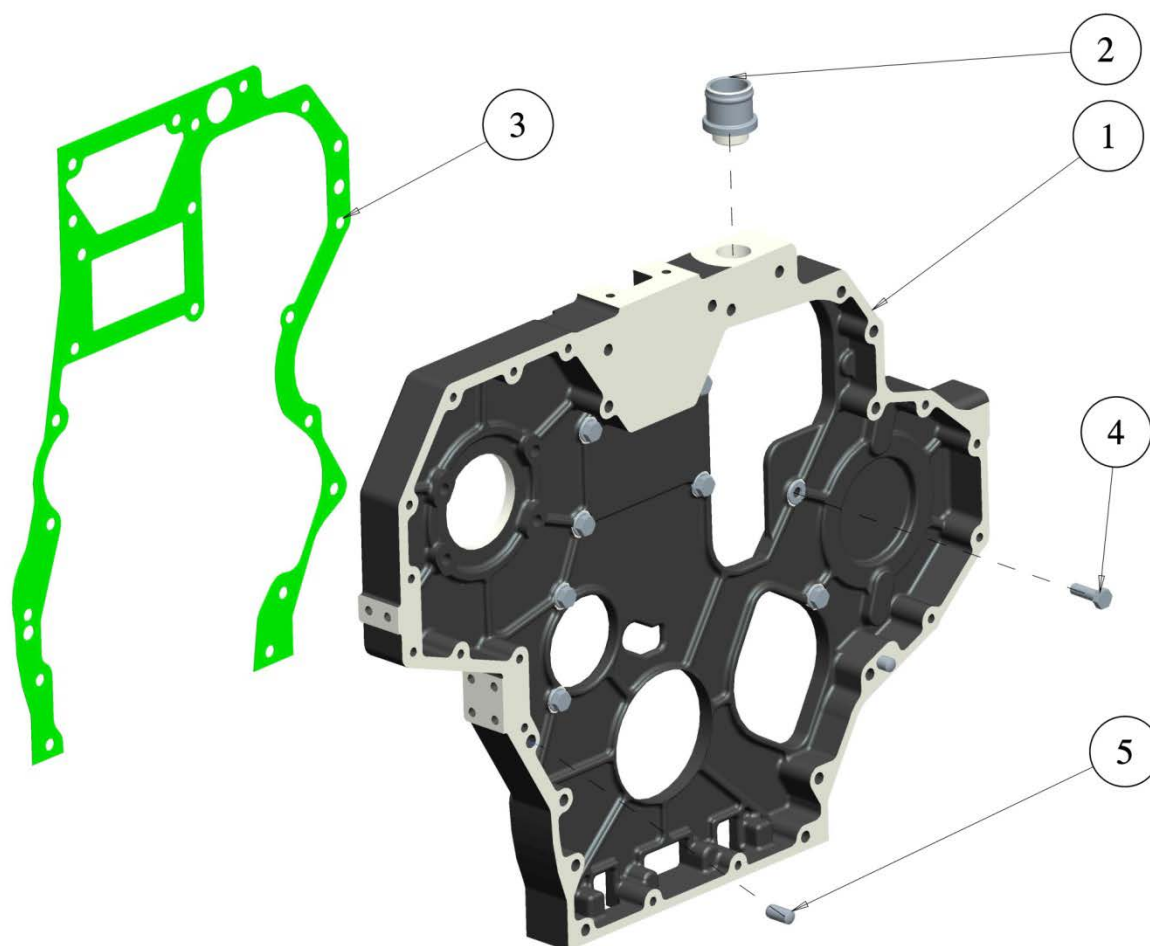
4G11T-RC			
BOM	BOM DESCRIPTION	FIP NO.	FIP DESCRIPTION
14119011401P	4G11T 80HP/1500RPM RC 12V	P21107250047	FUEL PUMP WITH DRIVE 4G11T
14119011403P	4G11T 94HP/1500RPM RC 12V	P21107250017	FUEL PUMP WITH DRIVE 4G11TP
14119011405P	4G11T 94HP/1800RPM RC 12V	141107253267	FIP+DRIVE 75kVA 1800 RPM 4G11TG2
14119011407P	4G11T 102HP/1800RPM RC 12V	141107253267	FIP+DRIVE 75kVA 1800 RPM 4G11TG2
14119011409P	4G11T 102HP/2000RPM RC 12V	P21107250017	FUEL PUMP WITH DRIVE 4G11TP
14119011411P	4G11T 102HP/2200RPM RC 12V	P21107250017	FUEL PUMP WITH DRIVE 4G11TP
14119011413P	4G11T 110HP/2200RPM RC 12V	P21107250017	FUEL PUMP WITH DRIVE 4G11TP
14119011415P	4G11T 110HP/2400RPM RC 12V	141107254207	FUEL PUMP WITH DRIVE 4G11T 2400RPM
4G11T-HE			
BOM	BOM DESCRIPTION	FIP NO.	FIP DESCRIPTION
14119011402P	4G11T 80HP/1500RPM HE 12V	P21107250047	FUEL PUMP WITH DRIVE 4G11T
14119011404P	4G11T 94HP/1500RPM HE 12V	P21107250017	FUEL PUMP WITH DRIVE 4G11TP
14119011406P	4G11T 94HP/1800RPM HE 12V	141107253267	FIP+DRIVE 75kVA 1800 RPM 4G11TG2
14119011408P	4G11T 102HP/1800RPM HE 12V	141107253267	FIP+DRIVE 75kVA 1800 RPM 4G11TG2
14119011410P	4G11T 102HP/2000RPM HE 12V	P21107250017	FUEL PUMP WITH DRIVE 4G11TP
14119011412P	4G11T 102HP/2200RPM HE 12V	P21107250017	FUEL PUMP WITH DRIVE 4G11TP
14119011414P	4G11T 110HP/2200RPM HE 12V	P21107250017	FUEL PUMP WITH DRIVE 4G11TP
14119011416P	4G11T 110HP/2400RPM HE 12V	141107254207	FUEL PUMP WITH DRIVE 4G11T 2400RPM

Fuel Pump Assembly

Ref No.	Level No.	Part No.	Description	Qty	Remarks
	..1	P21107250047	FIP+DRIVE 4G11T	1	
1	..2	105200240006	BOSCH FIP 4G11T GEN F002AOZ646	1	
2	..2	P21108530174	GASKET, FIP	1	
3	..2	602012021030	STUD M 10 X 1.5 X30 8.8 CL	4	
4	..2	P21104110014	ADAPTOR FOR FIP DRIVE	1	
5	..2	P21103710044	GEAR, FUEL PUMP	1	
6	..2	141103510825	FLANGED BOLT M8X1.25X25 8.8	4	
7	..2	602150610841	RING WASHER D/234	4	
8	..2	P21106370035	BRACKET - FUEL FILTER	1	
9	..2	602000501025	HEXSCREW=M10X1.5X25 8.8CL	2	
10	..2	141103400044	PLAIN WASHER M10 200HV	2	
11	..2	001200240183	DB FILTER MICO 028	1	
12	..2	602060501415	HEX PLUG M14X1.5	1	
13	..2	602000501025	HEXSCREW=M10X1.5X25 8.8CL	2	
14	..2	141103400044	PLAIN WASHER M10 200HV	2	
15	..2	604043200008	BANJO SCREW M14X1.5X31LG.	2	
16	..2	604920101420	CU.WASHER	4	
15	..2	604043200008	BANJO SCREW M14X1.5X31LG.	2	
16	..2	604920101420	CU.WASHER	4	
17	..2	105303000055	INJECTOR MICO F002 C8Z 899	4	
18	..2	P21109060017	HIGH PRESSURE PIPE SET	1	
19	...3	P21109060015	HIGH PRESSURE INJECTOR PIPE	4	
20	...3	P21107240018	CLAMP FOR FUEL FLEX PIPES	1	
21	..2	141109394054	LEAK OFF PLASTIC 4G11 STD	1	
22	..2	P21109010055	PIPE, FIP OIL SUPPLY	1	
23	..2	P21109390125	PLASTIC PIPE FUEL FLTER	1	
-	..2	P21109390115	PLASTIC PIPE FUEL FILTER	1	
-	..2	P04043301022	BANJO SCREW M10X22	1	
24	..2	602100540100	HEX. NUT M10 DIN 934M-10	4	
25	..2	604043200004	BANJO BOLT (DIN-7623)	1	
-	..2	604920101014	CU.WASHER	8	
-	..2	141103400034	PLAIN WASHER M8 200HV	4	
26	..2	604920101420	CU.WASHER	1	

Fuel of Solenoid

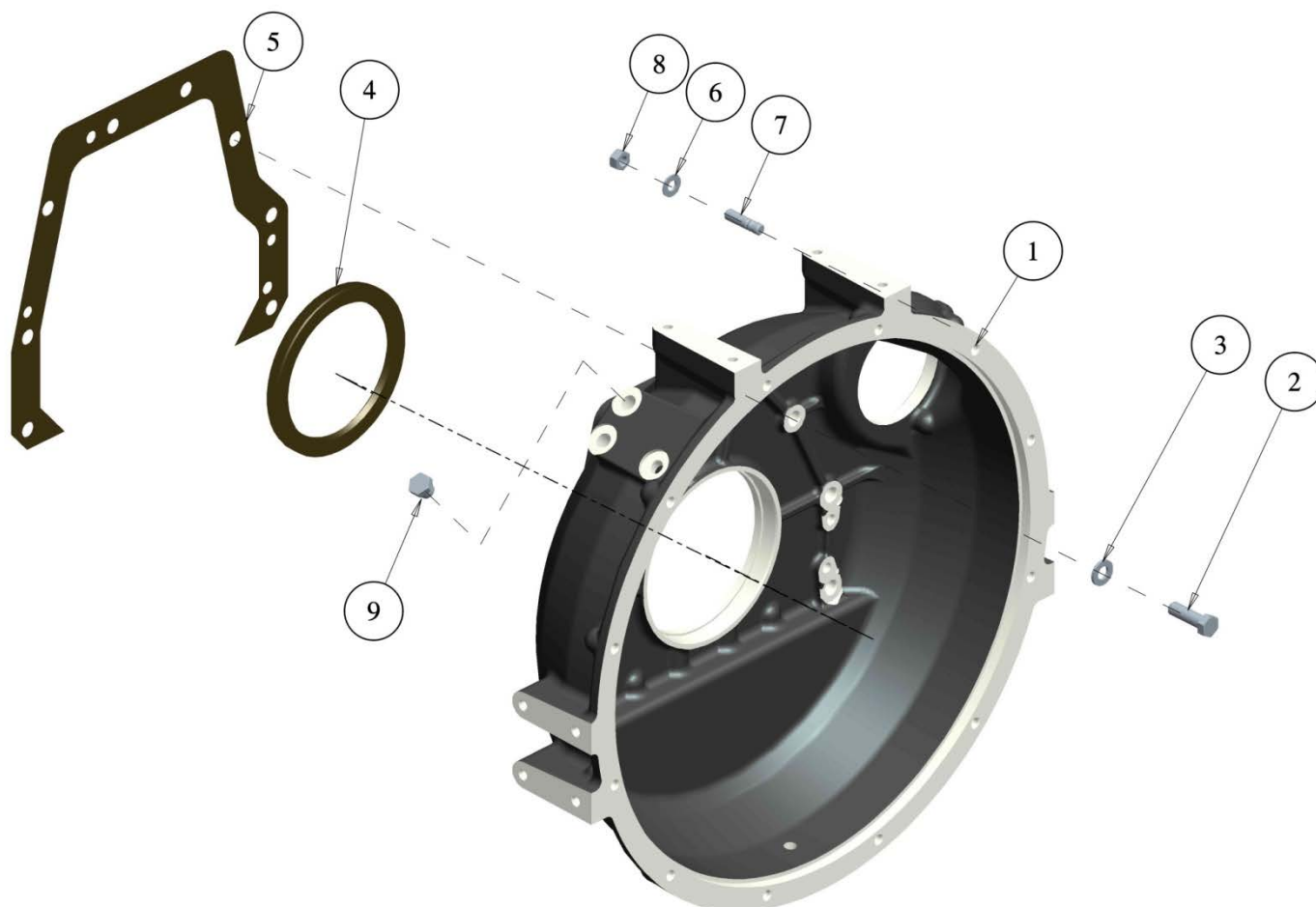
Ref No.	Level No.	Part No.	Description	Qty	Remarks
1	.1	P21100780017	FUEL OFF SOL.12VDC WITH FINE	1	

Gear-end Casing

Ref No.	Level No.	Part No.	Description	Qty	Remarks
	..1	P21107800017	GEAR END CASING GA	1	
	..2	P21107800016	GEAR END CASING SUB-ASSLY.	1	
1	...3	P21107880014	GEAR END CASING	1	
2	...3	P21103550014	SLEEVE FOR WATER CONNECTION	1	
3	..2	P21108530034	GASKET, GEAR END HSG	1	
4	..2	141103510825	FLANGED BOLT M8X1.25X25 8.8	8	
5	..2	602201001020	SOLID DOWEL PIN M10X20MM	2	

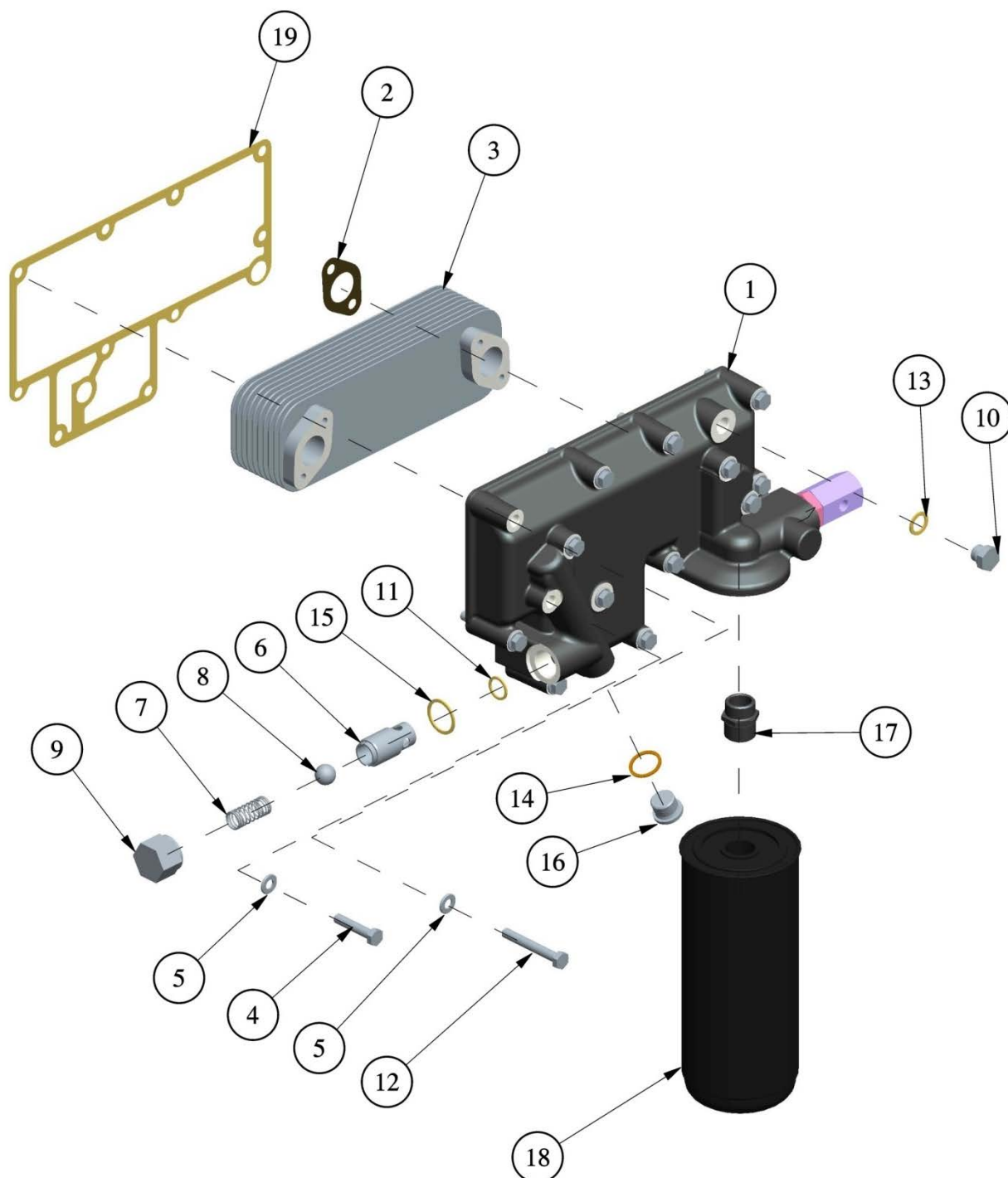
This exploded view diagram illustrates the assembly of a mechanical component, likely a pump or motor. The components are numbered 1 through 21. The assembly is shown in a disassembled state, with dashed lines indicating the alignment and assembly sequence. Key components include a large gear (3), a smaller gear (14), a housing (8), a shaft (12), and a base (18). The diagram shows the relationship between these parts, including the housing, gears, shaft, and base, and how they are assembled together.

Ref No.	Level No.	Part No.	Description	Qty	Remarks
	..1	141103710028	GEAR TRAIN ASSEMBLY	1	
1	..2	P21103000024	IDLER SHAFT	1	
2	..2	P21103710026	IDLER GEAR+BUSH ASSLY	1	
3	...3	P21103710024	GEAR, IDLER	1	
4	4	P21104320024	IDLER BEARING	1	
5	..2	P21106500014	IDLER PLATE	1	
6	..2	602000101060	HEX BOLT M10X60 931 8.8	3	
7	..2	141103400044	PLAIN WASHER M10 200HV	3	
8	..2	P21107310017	W / P WITH O RING & GEAR	1	
9	...3	P21107310016	WATER PUMP SUB ASSLY	1	
10	...3	104932117704	O RING WATER PUMP DIA (SMALL)	1	
11	...3	104932119204	O RING WATER PUMP FLANGE	1	
12	..2	141103510825	FLANGED BOLT M8X1.25X25 8.8	2	
13	..2	P21107300017	LUB OIL PUMP ASSLY	1	
14	...3	P21107300016	SHAFT & ROTOR ASSLY	1	
15	...3	104932117802	O RING (OIL PUMP)	1	
16	...3	P21103710064	GEAR, LUB OIL PUMP	1	
12	..2	141103510825	FLANGED BOLT M8X1.25X25 8.8	2	
17	..2	141109010035	LUB OIL STRAINER	1	
18	..2	P21108530224	GASKET, OIL STRAINER	1	
12	..2	141103510825	FLANGED BOLT M8X1.25X25 8.8	2	
19	..2	P21104650025	NOZZLE,GEAR LUBRICATION	1	
20	..2	P04043300826	BANJO SCREW M8X26	1	
21	..2	604920100814	COPPER WASHER	4	

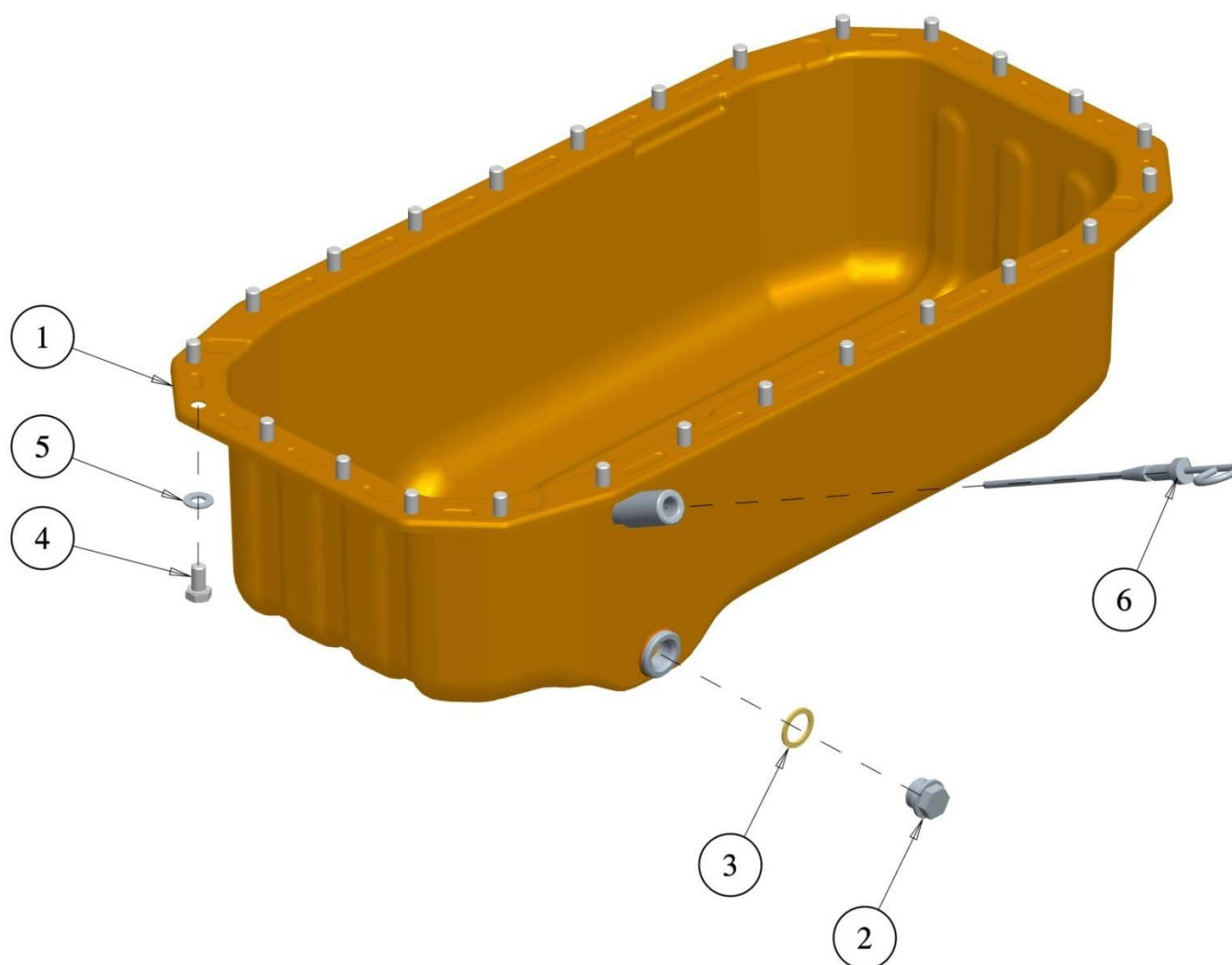
Housing Flywheel

Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21107010017	HOUSING FLYWHEEL-SAE 3 ASSY.GA	1	
1	..2	P21107010014	FLYWHEEL HOUSING SAE-3	1	
2	..2	602000501240	HEX.SCREW M12X40 CL/8.8	8	
3	..2	141103400054	PLAIN WASHER M12 200HV	8	
4	..2	104960650160	OILSEAL 130-160-12	1	
5	..2	P21108530114	GASKET, FLYWHEEL HSG	1	
6	..2	141103400044	PLAIN WASHER M10 200HV	3	
7	..2	602012021030	STUD M 10 X 1.5 X30 8.8 CL	3	
8	..2	602100540100	HEX. NUT M10 DIN 934M-10	3	
9	..2	141103550064	PLUG MPU - 5/8" - 18 UNF	2	

Oil Header Filter

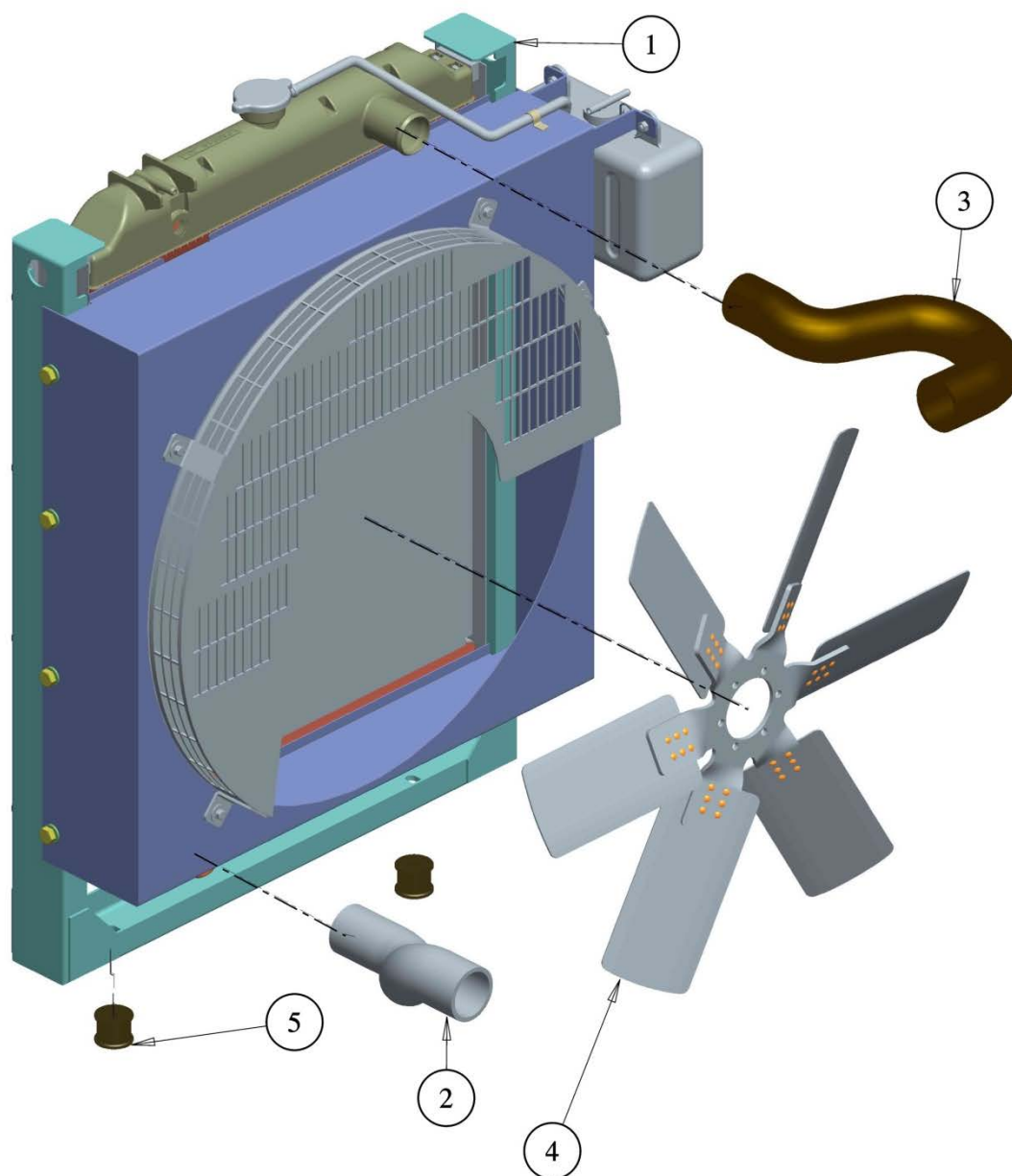


Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21109400017	LUB OIL HEADER & OIL FILTER GA	1	
	..2	P21109400016	OIL COOLER & HEADER ASSEMBLY	1	
1	...3	P21107520014	OIL HEADER MACHINED	1	
2	...3	P21108520014	GASKET OIL COOLER OVAL	2	
3	...3	P21109400015	OIL COOLER CARTRIDGE	1	
4	...3	602000100855	HEXBOLT=M8X1.25X55 8.8CL	4	
5	...3	141103400034	PLAIN WASHER M8 200HV	4	
-	...3	P06962970002	RELIEF VALVE ASSLY	1	
6	4	P06962970001	RELIEF VALVE BODY	1	
7	4	P21102401504	RELIEF VALVE SPRING G11	1	
8	4	P03250100001	STEEL BALL-DIA 17MM	1	
9	4	P21103420024	RELIEF VALVE CAP	1	
10	...3	602060501415	HEX PLUG M14X1.5	1	
11	...3	604920101620	COPPER WASHER A/16-20X1.5	1	
12	...3	141103510825	FLANGED BOLT M8X1.25X25 8.8	10	
13	...3	604920101420	CU.WASHER	1	
14	...3	604920102227	CU.WASHER=A22X1.5X27	1	
15	...3	604920102530	CU-WASHER	1	
16	...3	P02041002018	ALLEN PLUG M20X18 MM LG	2	
17	...3	P04041110001	ADAPTOR M24X1"UNF	1	
18	..2	605411880008	LUB OIL FILTER(232V12)	1	
19	..2	P21108530054	GASKET BETWEEN HEADER AND CRANKCASE	1	

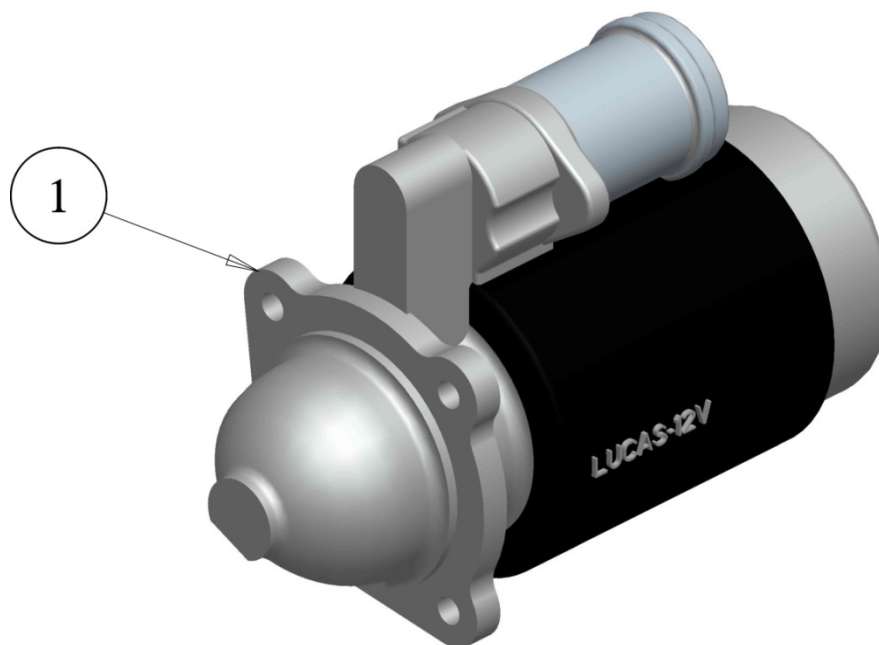
Oil sump Assembly

Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	141101150017	4G11 SHEETMETAL OIL SUMP ASSLY	1	
1	..2	141101150015	SHEETMETAL OIL SUMP 4G11	1	
2	..2	123203520134	HEX HD PLUG=M18X1.5X17	1	
3	..2	604920101824	CU.WASHER (1.5MM)	1	
4	..2	602000500815	HEX SCREW M8X16 8.8/CL	26	
5	..2	141103400034	PLAIN WASHER M8 200HV	26	
6	..2	P21103290054	DIPSTICK FOR 4G11 SHEETMETAL SUMP	1	

RADIATOR ASSEMBLY

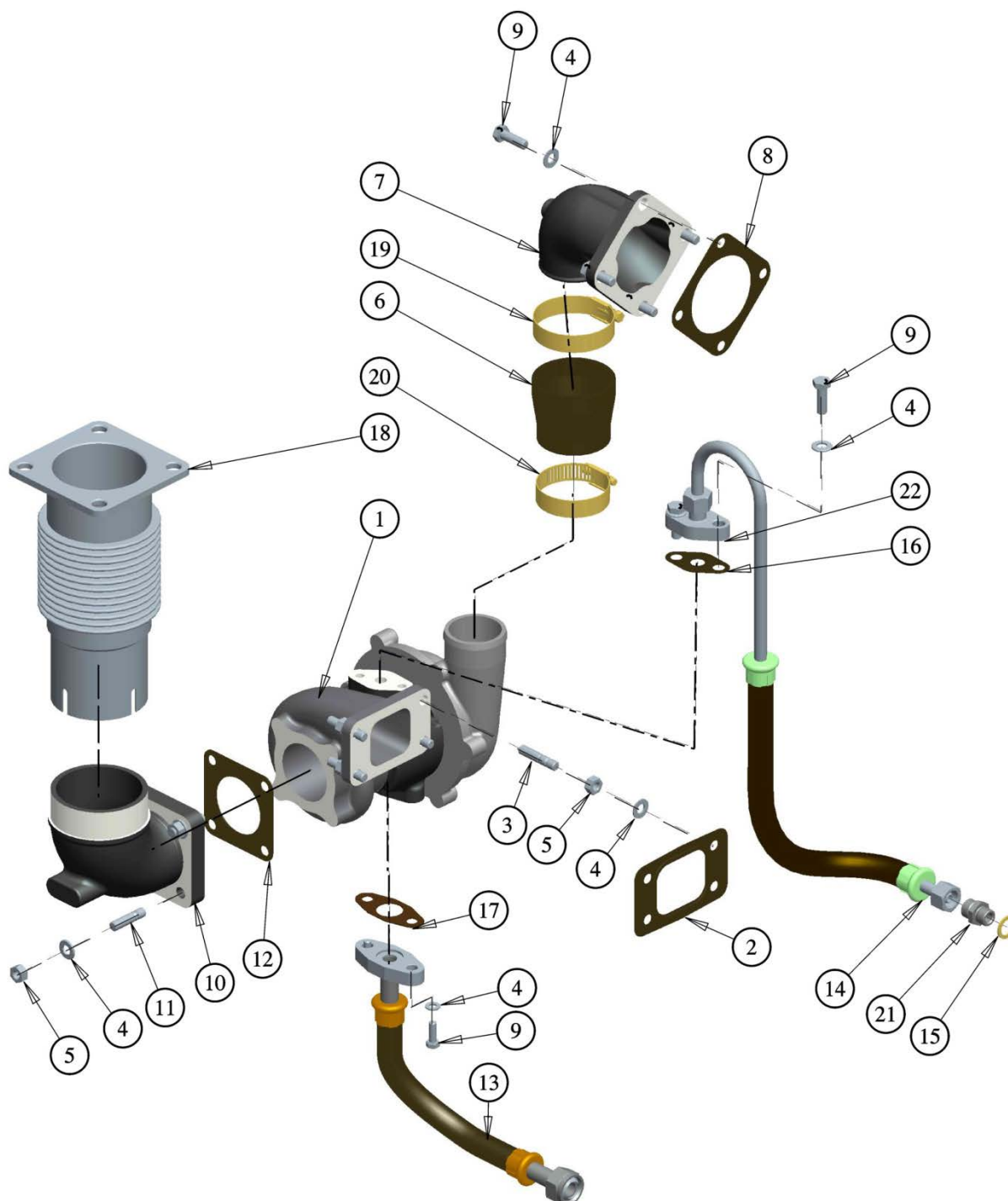


Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21100520165	ASM RADIATOR -ALU-TTR-62.5KVA-82.5KVA	1	
1	..2	P21100520164	RADIATOR-ALU-TTR-62.5KVA-75 KVA	1	
	..2	604015300650	HOSECLIP 60-80/3X	4	
2	..2	P21108610354	HOSE (RAD TO WATER IN PIPE 4G11ALUMN RAD	1	
3	..2	P21108610364	HOSE (THERMO TO RAD IN PIPE 4G11 ALU RAD	1	
4	..2	P21104010024	FAN (FABRICATED) - 24" PUSHER TYPE	1	
5	..2	606500100006	A V MOUNTG-A2T/4030B	2	
-	..2	602000501020	HEXSCREW=M10X1.5X20 8.8CL	4	
-	..2	141103400044	PLAIN WASHER M10 200HV	4	

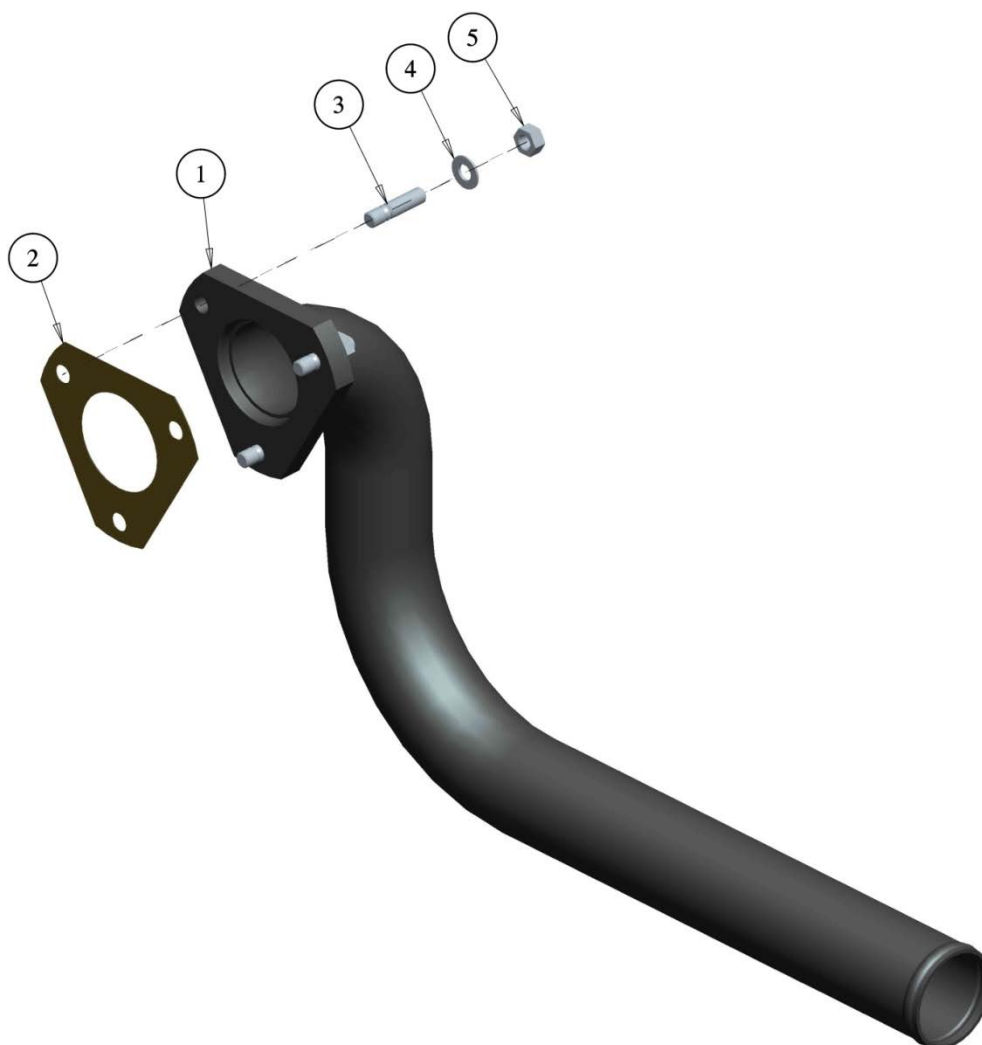
Starter

Ref No.	Level No.	Part No.	Description	Qty	Remarks
1	0.1	000707530229	STARTER 12V*6M14*26935113A	1	

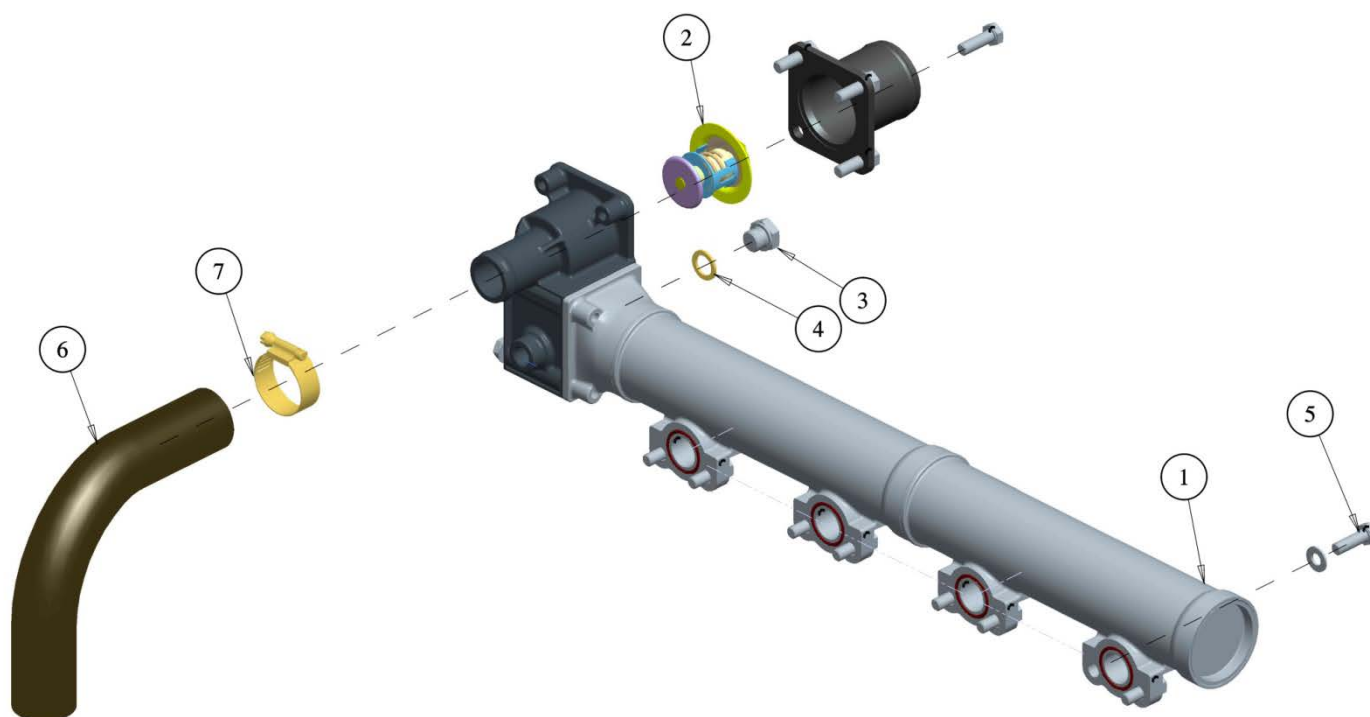
Turbocharger Attachment Holset



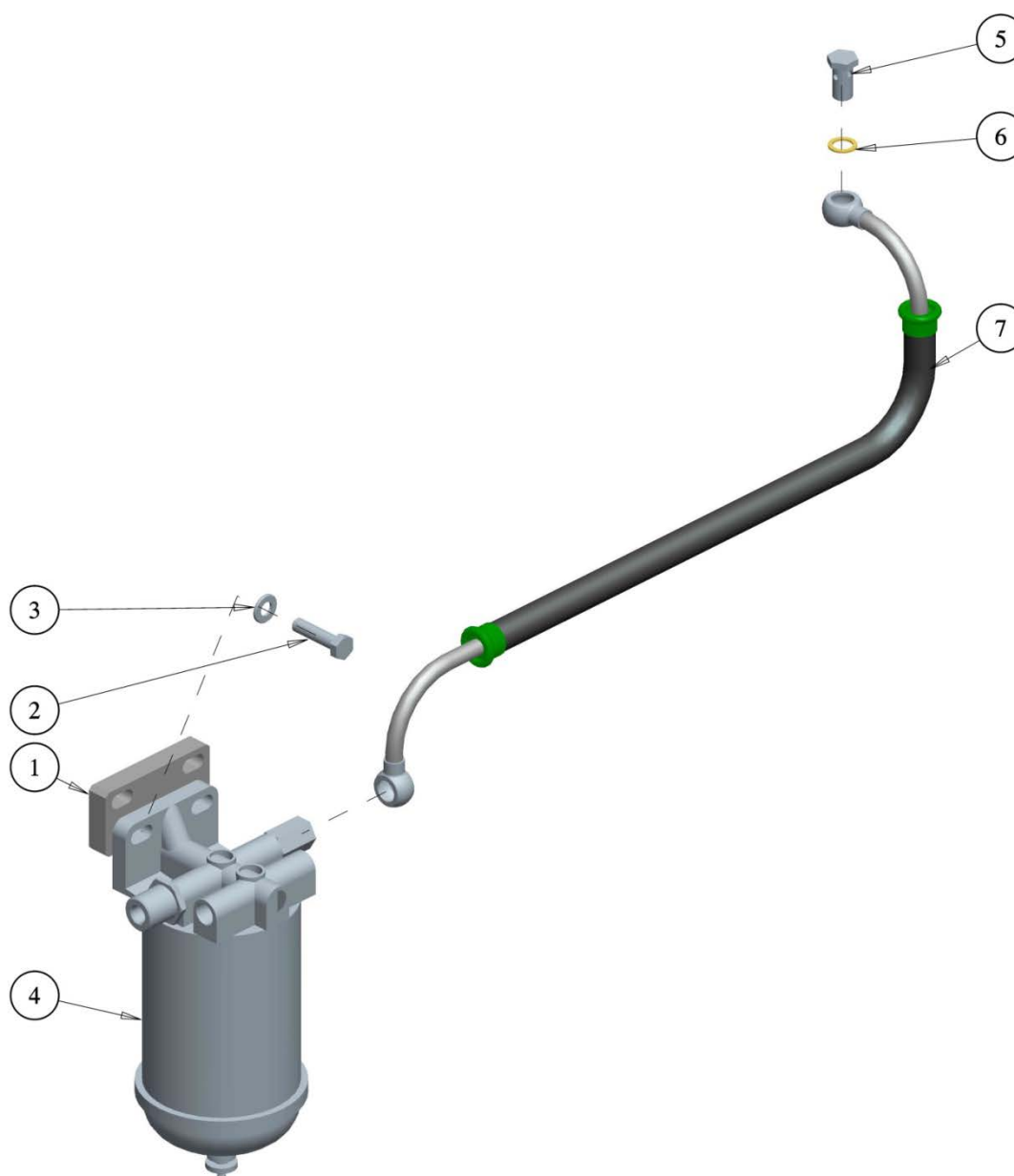
Ref No.	Level No.	Part No.	Description	Qty	Remarks
	..1	P21106030017	TURBOCHARGER ATTACHMENTS	1	
1	..2	P05292000001	TURBOCHARGER TEL-TR59	1	
2	..2	P21108530084	GASKET, EXHAUST MANIFOLD	1	
3	..2	102011070834	STUD-M8X34 LONG (ST.STEEL)	4	
4	..2	602150100084	WASHER=M8X17X1.6	4	
5	..2	602100540081	HEXNUT COPR.PLATED M8 10G	4	
6	..2	P21108610074	HOSE DIA 55-50X48	1	
7	..2	P21109210024	ELBOW INLET MANIFOLD FOR TR-59	1	
8	..2	P21108510024	GASKET, AIR INTAKE MANIFOLD END SIDE	1	
9	..2	602000500825	HEXSCREW=M8X1.25X25 CL8.8	4	
4	..2	602150100084	WASHER=M8X17X1.6	4	
10	..2	P21109310034	EXHAUST ELBOW	1	
11	..2	102011070834	STUD-M8X34 LONG (ST.STEEL)	4	
12	..2	P21108530214	GASKET TURBO OUT & EXH.	1	
13	..2	P21109010025	PIPE, TURBO DRAIN	1	
-	..2	604920101824	CU.WASHER (1.5MM)	1	
14	..2	P21109010045	PIPE, TURBO OIL SUPPLY	1	
15	..2	604920101420	CU.WASHER	1	
16	..2	P21108530184	GASKET, T/C OIL SUPPLY	1	
17	..2	P21108530194	GASKET, T/C OIL DRAIN	1	
9	..2	602000500825	HEXSCREW=M8X1.25X25 CL8.8	4	
4	..2	602150100084	WASHER=M8X17X1.6	4	
18	..2	P21199930015	EXHAUST BELLOW 4G11	1	
19	..2	104015150065	KLIPCO SS W3/ IS 4762 /65	1	
20	..2	104015150060	KLIPCO SS W3/ IS 4762 / 2X	1	
5	..2	602100540081	HEXNUT COPR.PLATED M8 10G	4	
4	..2	602150100084	WASHER=M8X17X1.6	4	
-	..2	P21103550084	ADAPT. TURBO IN M18,M22	1	
21	..2	P21103550074	ADAPT. TURBO IN M14,M16	1	
-	..2	104015150079	KLIPCO SS W3/ IS 4762 /TB-62	1	
22	..2	P21103550034	ADAPTOR T/C OIL DRAIN	1	

WATER INLET PIPE ASSLY

Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21109420017	WATER INLET PIPE ASSLY	1	
1	..2	P21109420045	WATER INLET PIPE	1	
2	..2	P21108530144	GASKET, WATER INLET PIPE	1	
3	..2	602011020825	STUD=M8X1.25X25MM 8.8/CL	3	
4	..2	141103400034	PLAIN WASHER M8 200HV	3	
5	..2	602100540080	HEX. NUT M8 DIN 934	3	

WATER MANIFOLD ASSLY

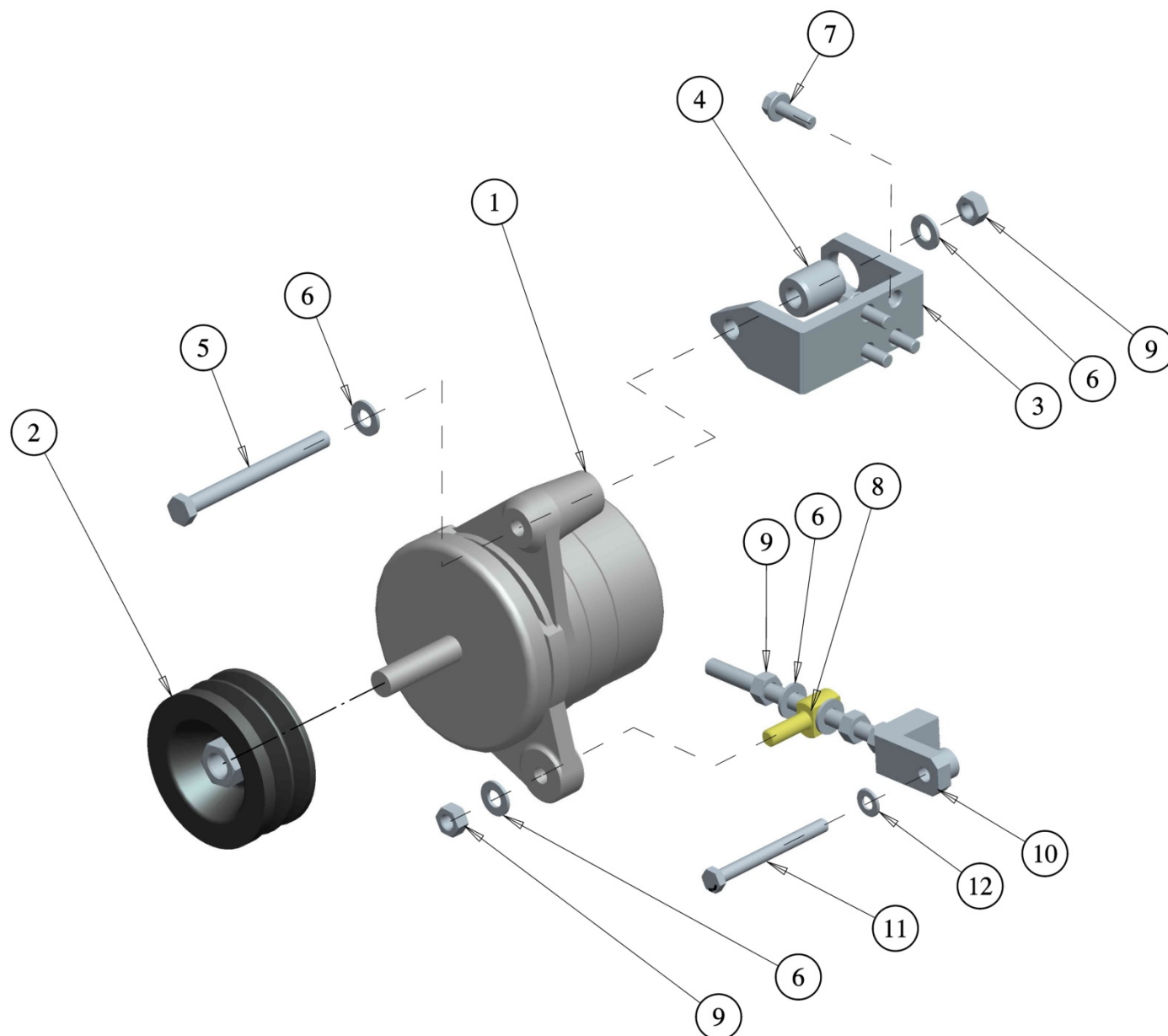
Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	141109100028	WATER MANIFOLD PLASTIC 4G11	1	
	..2	141109100026	WATER MANIFOLD PLASTIC 4G11	1	
1	...3	141109104007	WATER MANIFOLD ASSLY PLASTIC 4G11	1	
2	...3	P05250100002	THERMOSTAT ELEMENT	1	
3	...3	602060501415	HEX PLUG M14X1.5	1	
4	...3	604920101420	CU.WASHER	3	
-	...3	141103400024	SPL.CU.WASHER	1	
5	..2	141103510825	FLANGED BOLT M8X1.25X25 8.8	8	
6	..2	P21108610024	HOSE DIA31.5 W/BYPASS G11	1	
7	..2	104015150040	KLIPCO SS W3/ IS 4762/ 1X	2	

Water Separator

Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	141100196367	WATER SEPERATOR ASSY.	1	
1	..2	141106374185	BRACKET_FOR_WATER_SEPARATOR	1	
2	..2	602000501030	HEX SCREW M10X30 933 8.8	4	
3	..2	602150100105	PLAIN WASHER A10.5 (M10)	4	
4	..2	141107400024	Water Separator w/o Priming	1	
5	..2	604043200008	BANJO SCREW M14X1.5X31LG.	4	
6	..2	604920101420	CU.WASHER	8	
7	..2	123209390124	FLEX HOSE ASSY 840MM LG.	2	

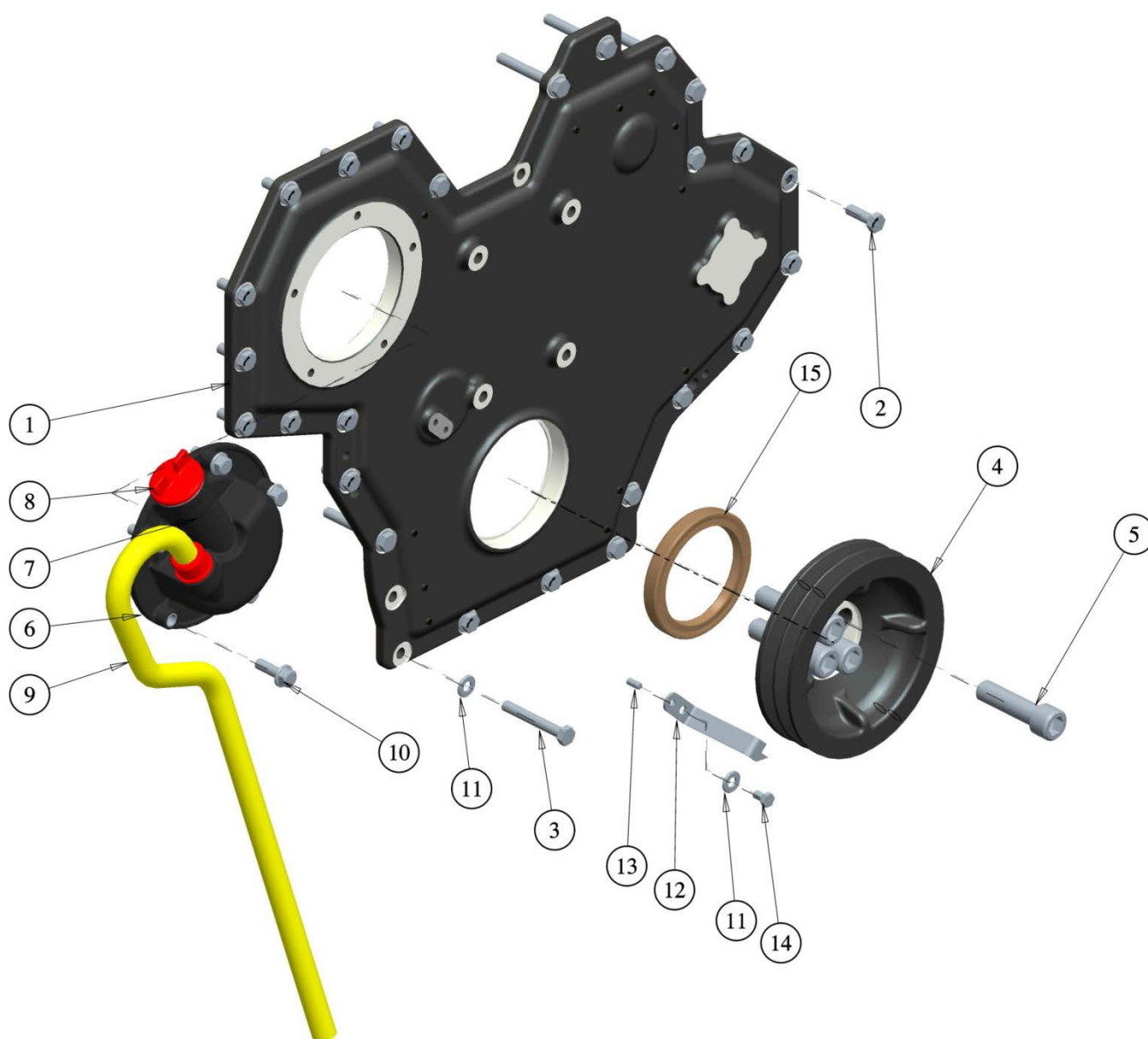
4G11T-HE

Alternator Assembly-HE



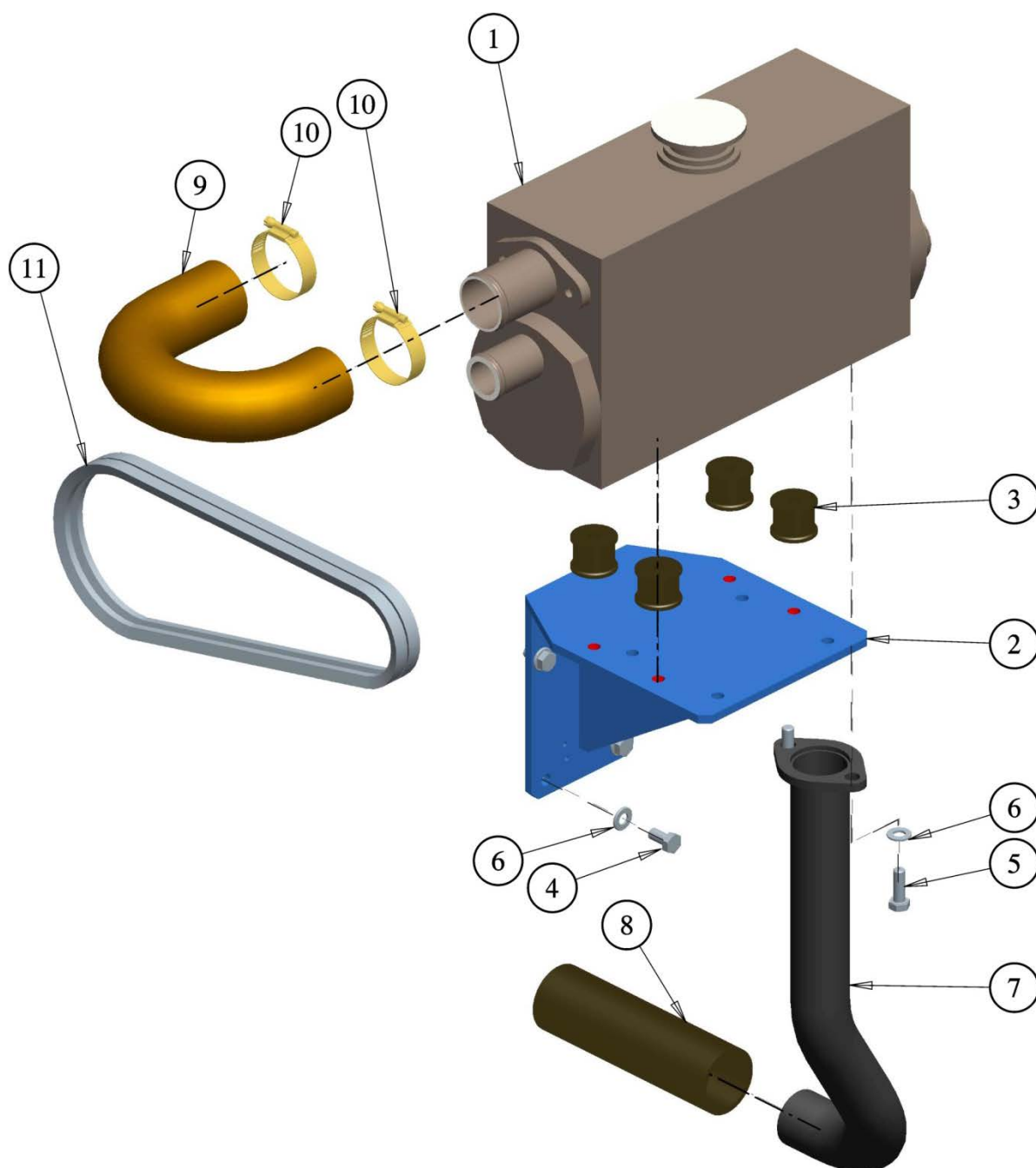
Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21190790037	ALTERNATOR ARRANGEMENT FOR HE	1	
1	..2	000767530321	ALT.W/O PULLY AUTLECK/SPR 12V_36A	1	
2	...3	P21103810034	PULLEY FOR ALTERNATOR DRIVE	1	
3	..2	P21106230035	BRACKET CHARGING ALT G11	1	
4	..2	P21103300064	SPACER ALTR MTG CAST BRACKET	1	
5	..2	602000101011	BOLT M10X110D/234-CL/10.9	1	
6	..2	141103400044	PLAIN WASHER M10 200HV	5	
7	..2	141103510825	FLANGED BOLT M8X1.25X25 8.8	4	
8	..2	P21103510024	SWIVEL BOLT	1	
9	..2	602100540100	HEX. NUT M10 DIN 934M-10	3	
10	..2	P21103510045	TENSION BOLT- FABRICATED	1	
11	..2	602000100885	HEXBOLT=M8X1.25X85-8.8CL	1	
12	..2	141103400034	PLAIN WASHER M8 200HV	1	
9	..2	602100540100	HEX. NUT M10 DIN 934M-10	1	

Front Cover-HE



Ref No.	Level No.	Part No.	Description	Qty	Remarks
	.1	P21107800057	FRONT COVER ASSLY FOR HE	1	
1	..2	P21107800024	FRONT WALL COVER	1	
2	..2	141103510825	FLANGED BOLT M8X1.25X25 8.8	15	
3	..2	602000100860	HEXBOLT=M8X1.25X60 8.8CL	11	
4	..2	141103810154	CRANK PULLEY PASVN	1	
5	..2	602007041660	ALLEN SCREW M16X60-12.9	4	
6	..2	P21107870027	PLASTIC SPOUT ASM	1	
7	...3	P21107870064	PLASTIC SPOUT WITH PLATE	1	
8	...3	P21107870074	PLASTIC CAP FOR SPOUT	1	
9	...3	P21108610374	PIPE PLASTIC SPOUT	1	
10	...3	141103510825	FLANGED BOLT M8X1.25X25 8.8	5	
-	...3	001700531019	CLIP FOR CONDUIT	1	
11	..2	602150100084	WASHER=M8X17X1.6	37	
-	..2	602000100855	HEXBOLT=M8X1.25X55 8.8CL	2	
11	..2	602150100084	WASHER=M8X17X1.6	2	
12	..2	P21106500024	POINTER	1	
13	..2	602201000512	SOLID DOWEL PIN M5X12MM	1	
14	..2	602000500610	HEX SCREW M6X10 8.8 CL	1	
11	..2	141103400084	PLAIN WASHER M6 200HV	1	
15	..2	104960650100	OILSEAL 78-100-12	1	

Heat Exchanger Assembly-HE



Ref No.	Level No.	Part No.	Description	Qty	Remarks
	..1	P21107500018	H.E. ASSEMBLY FOR 4G11T	1	
1	..2	P21107500027	H.E. 4G11T	1	
2	..2	P21106230045	BRACKET FOR H.E.4G11	1	
3	..2	606500100006	A V MOUNTG-A2T/4030B	4	
4	..2	602000501020	HEXSCREW=M10X1.5X20 8.8CL	8	
5	..2	602000501030	HEX SCREW M10X30 933 8.8	4	
6	..2	602150100105	PLAIN WASHER A10.5 (M10)	16	
7	..2	P21109420095	PIPE HE TO CRANK CASE 4G11	1	
8	..2	P21108610094	HOSE RAD INLET OD 60 ID50 TA	1	
9	..2	P21109420084	HOSE PIPE THERMO TO HE	1	
10	..2	104015150060	KLIPCO SS W3/ IS 4762 / 2X	4	
11	..2	P03450210950	COGGED BELT AX36-950L	2	
-	..2	602011001015	STUD BOLT M10X16.5.8/CL	4	
-	..2	604911005015	GASKET WATER MANIFOLD	1	

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