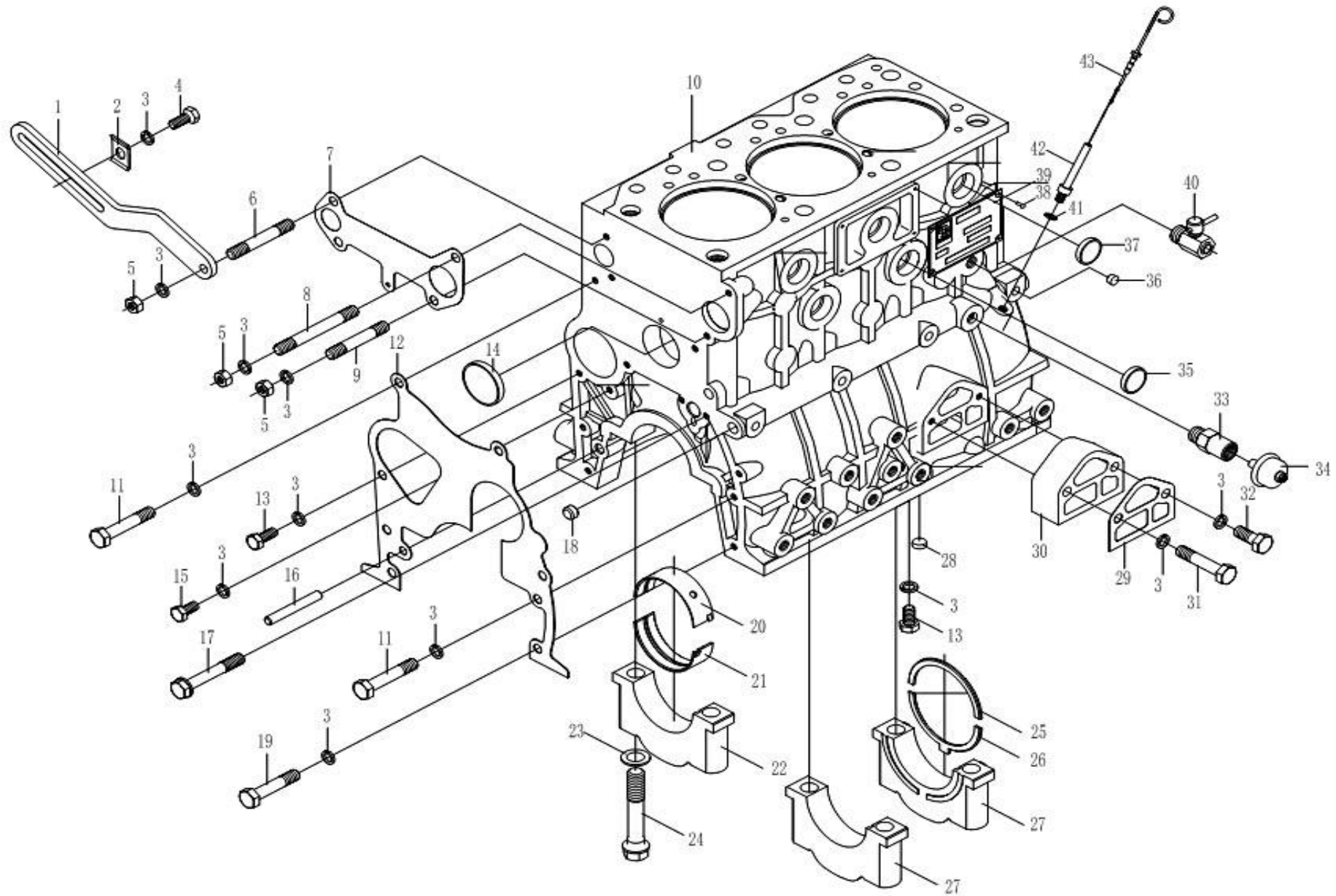


LAIDONG KM385BT ENGINE PARTS MANUAL

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KM385 Cylinder Block (One)



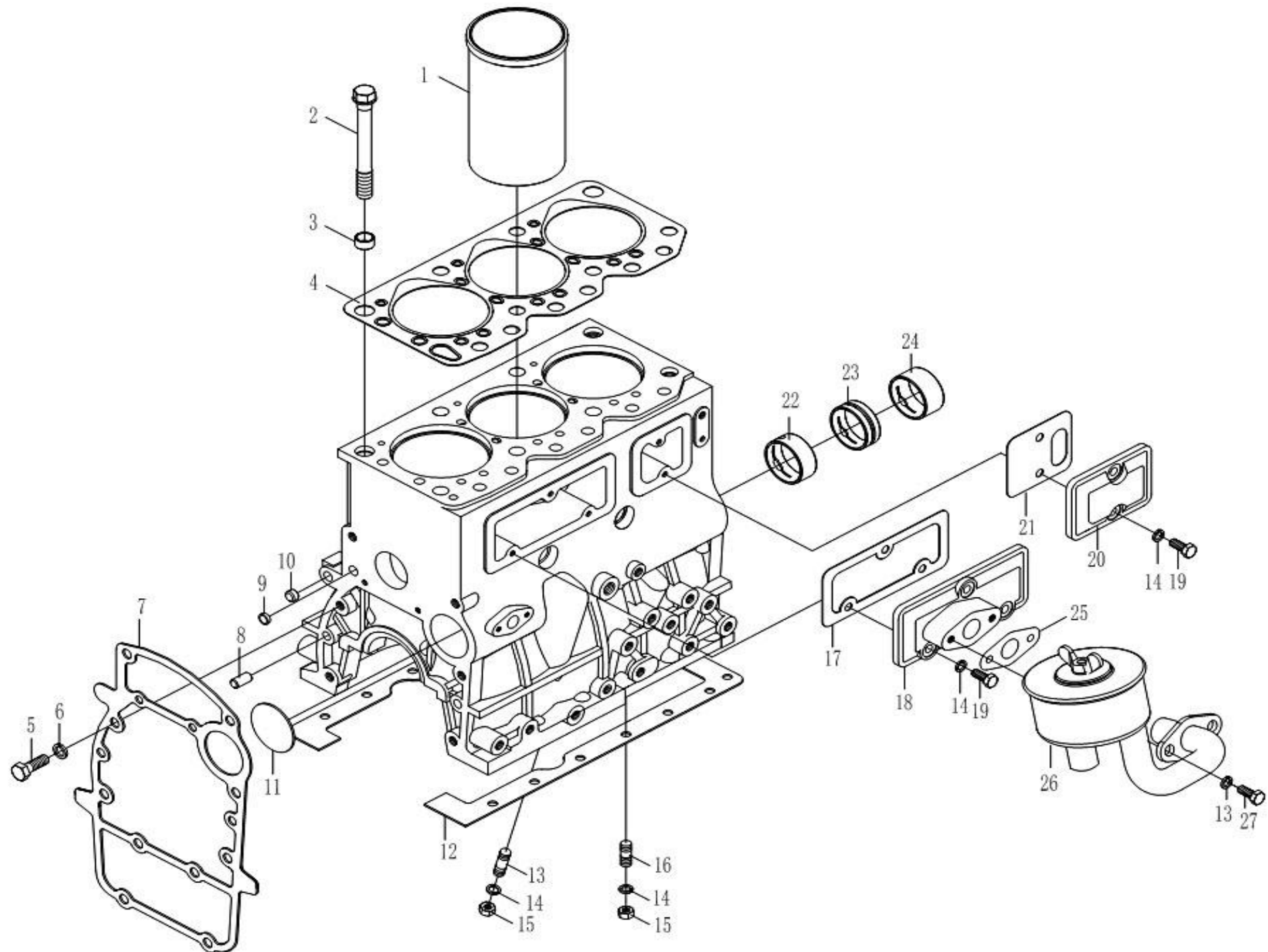
KM385 Cylinder Block (One)

Number	Part number	Description	Quantity
1	KM385T-01029	Alternator adjustable support bracket	1
2	GB93-87	Washer 8	34/50
3	GB5783-86	Washer 8	1
4	GB6170-86	Bolt M8×35	4
5	GB898-88	Nut M8	1
6	GB898-88	Bolt M8×65	1
7	L375-01006	Water pump gasket	1
8	GB898-88	Bolt M8×90	2
9	GB5782-86	Bolt M8×60	1
10	KM385TE-01111	Cylinder block	6
11	GB5783-86	Bolt M8×55	1
12	L375-01007	Gear case gasket	2
13	GB5783-86	Bolt M8×20	1
14	D495QB-01024	Blind plug φ55	2
15	GB119-86	Bolt M8×16	3
16	4L22BT-01021	Pin B8×50	2
17	L375-01104	Idle Bolt M10×70	1/2
18	L375-01106	Stopper	2
19	GB5783-86	Bolt	1
20 - 21	KM385BT-01010.0	Main Bearing shells 0.00 set (4 pcs upper, 4 pcs lower)	1
20	KM485QB-01016	Main bearing upper shell	4
21	KM485QB-01112	Main bearing lower shell	4
22	L375-01110	Main bearing cap	3

KM385 Cylinder Block (One)

Number	Part number	Description	Quantity
23	L375-01110	Main bearing cap bolt washer	10
24	L375-01111	Main bearing cap bolt	10
25 - 26	KM485QB-01007-1	Crankshaft thrust bearing set (2 pcs upper, 2 pcs lower)	1
25	KM485QB-01007	Crankshaft upper thrust bearing	2
26	KM485QB-01008	Crankshaft lower thrust bearing	2
27	KM485QB-01113	Rear main bearing cap	1
28	D495QB-03109	Blind plug $\phi 12$	1
29	L375-01027	Oil filter housing gasket	1
30	KM385T-01027	Oil filter padding block	1
31	GB5782-86	Bolt M8×50	1
32	GB5783-86	Bolt M8×50	1
33	KM385T-01035	Oil pressure sensor connecting pipe	1
34	L375-12500	Oil pressure sensor	1
35	D495QB-01014	Bowl shape plug	2
36	L375-01105-1	Taper plug	4
37	D495QB-01024	Blind plug $\phi 32$	3
38	GB827-86	Rivet 2×6	4
39	L375-03302-8	Brand mark plate	1
40	KM385T-01600	Water drain tap	1
41	195-13007	Sealing washer	1
42	L375-01320-1	Dipstick sleeve	1
43	KM385T-01310	Oil level dipstick	1

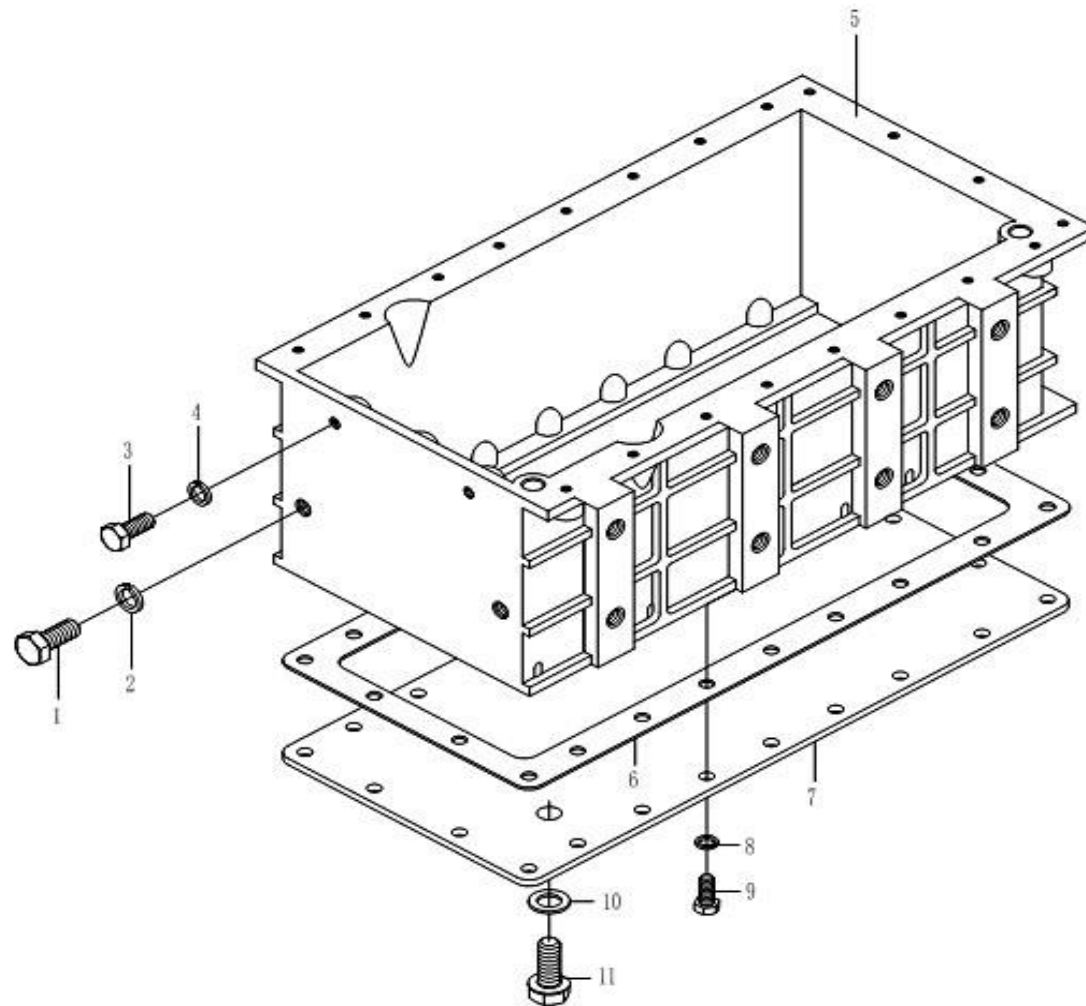
KM385 Cylinder Block (Two)



KM385 Cylinder Block (Two)

Number	Part number	Description	Quantity
1	KM485QB-01003	Cylinder liner	3
2	KM485QB-01005	Cylinder head stud	8
3	L375-01103	Locating sleeve	2
4	KM385QB-01002	Cylinder head gasket	1
5	GB5783-86	Bolt M10×30	6
6	GB93-87	Washer 10	6
7	KM385T-01018	Flywheel housing gasket	1
8	GB119-86	Pin B10×20	2
9	L375-01115	Blind plug φ10	2
10	L375-01104	Main oil channel plug	1/2
11	L375-01102	Plug φ55	1
12	KM385T-01017	Oil sump gasket	1
13	GB898-88	Bolt M8×22	1
14	GB93-87	Washer 8	28
15	GB6170-86	Nut M8	22
16	GB898-88	Stud M8×25	16
17	KM385T-01014	Side cover (I) spacer	1
18	KM485QB-01013	Side cover (I)	1
19	GB5783-86	Bolt M10×25	5
20	LL380-01012	Side cover (II) spacer	1
21	LL380-01015	Side cover (II)	1
22-24	L375-01114-1	Camshaft bearing set (front, middle and rear)	1
22	L375-01114	Front camshaft bearing	1
23	L375-01113	Middle camshaft bearing	1
24	L375-01112	Rear camshaft bearing	1
25	KM485QB-01011	Breather gasket	1
26	KM385T-01200	Breather	1
27	GB5783-86	Bolt M8×18	2

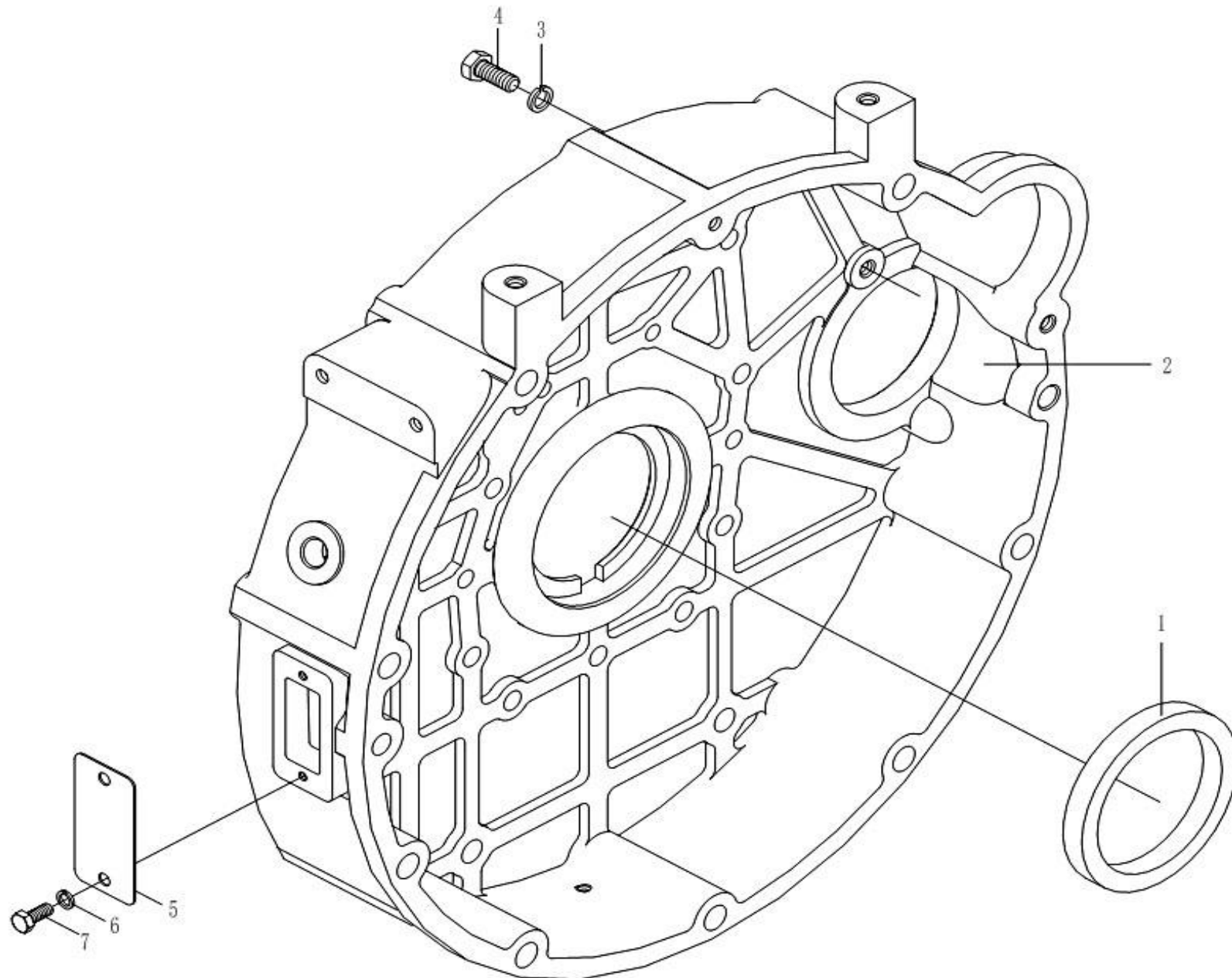
KM385 Oil Sump



KM385 Oil Sump

Number	Part number	Description	Quantity
1	GB5783-86	Bolt M12×25	2
2	GB93-87	Washer 12	2
3	GB5783-86	Bolt M10×25	2
4	GB93-87	Washer 10	2
5	KM385T-015101	Oil sump	1
6	KM385T-015111	Oil sump cover gasket	1
7	KM385T-015104	Oil sump cover	1
8	GB93-87	Washer 8	18
9	GB5783-86	Bolt M8×18	18
10	LL380-01503	A type washer	1
11	LL380-01501	Oil drain plug	1

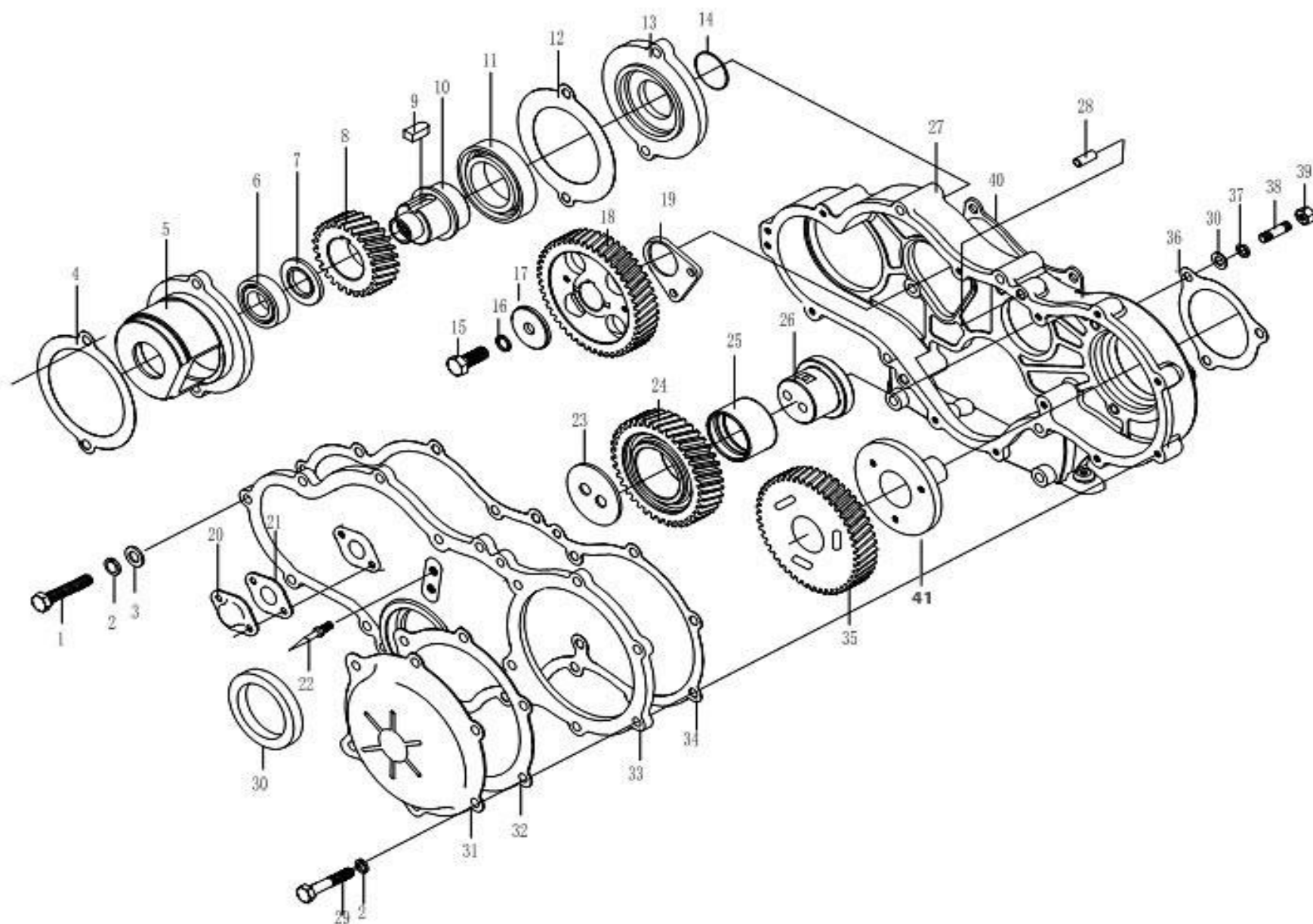
KM385 Flywheel Housing



KM385 Flywheel Housing

Number	Part number	Description	Quantity
1	JB2600-80	Oil seal DL80×100×12	1
2	KM385T-01010	Flywheel housing	1
3	GB93-87	Washer 10	2
4	GB5783-86	Bolt M10×30	2
5	LL480-01025	Cover plate	1
6	GB93-87	Washer 8	2
7	GB5783-86	Bolt M8×18	2

KM385 Timing Case



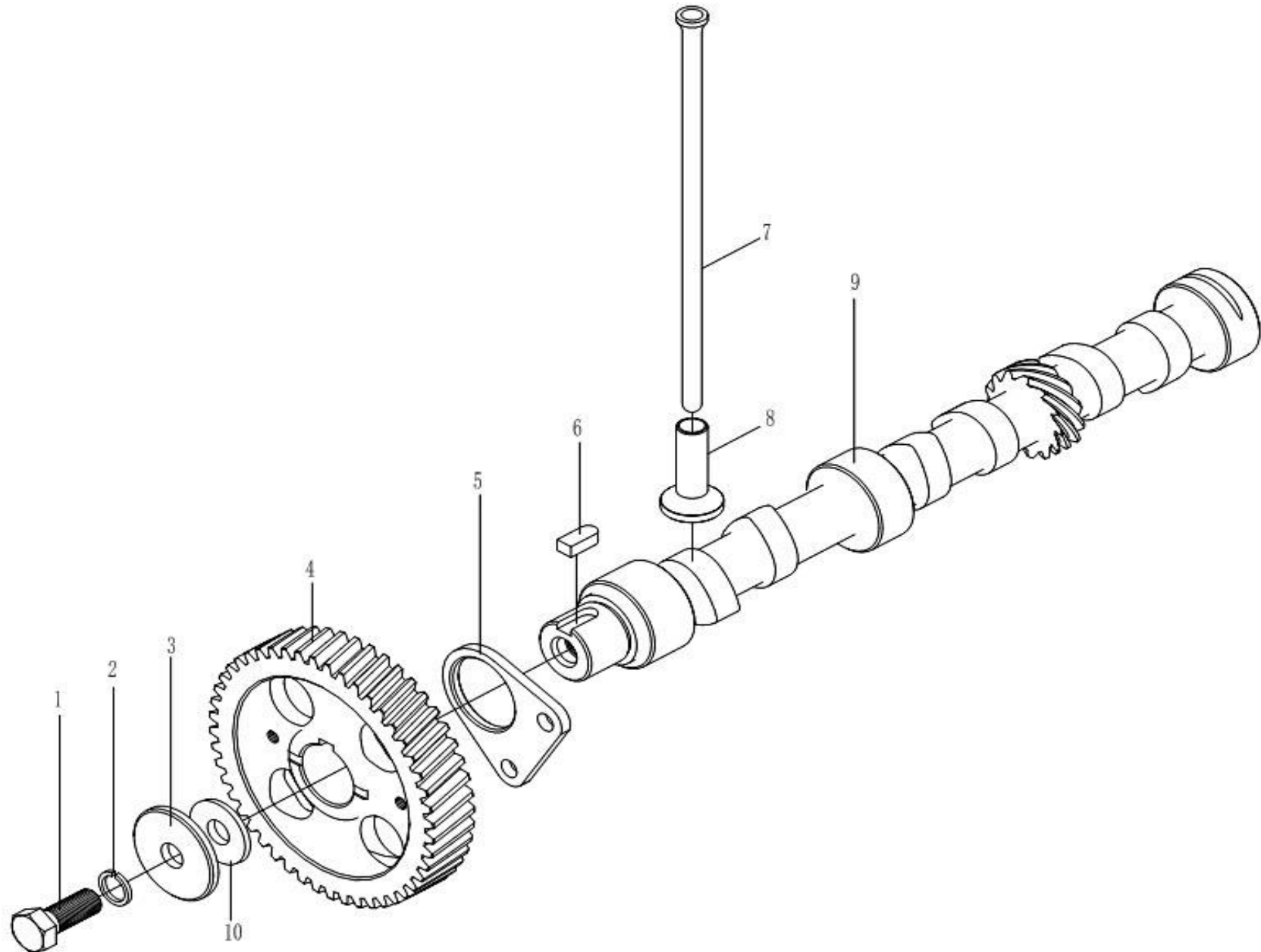
KM385 Timing Case

Number	Part number	Description	Quantity
1	GB5783-86	Bolt M8×30	1
2	GB97.1-85	Washer 8-100HV	2
3	GB93-87	Washer 8	1
4	KM385T-01708	Hydraulic pump transition drive gasket	1
5-11	KM385T-01700-1	Hydraulic pump transition drive assembly	1
5	KM385T-01703	Hydraulic pump transition drive housing	1
6	GB276-94	Bearing 6005	1
7	KM385T-01706	Bearing hold-down circlip	1
8	KM385T-01704	Hydraulic pump transition gear	1
9	GB1096-79	Key C10×22	1
10	KM385T-01702	Hydraulic pump transition drive shaft	1
11	GB292-94	Bearing 7008C	1
12	KM385T-01708	Hydraulic pump transition drive gasket	1
13	KM385T-01701	Hydraulic pump transition drive plate	1
14	GB/T3452.1-2005	O- ring 37.5×2 .65	1
15	GB5783-86	Bolt M12×35	1
16	GB97.1-85	Washer 12-100HV	1
17	KM385T-02012	Camshaft timing gear hold-down washer	1
18	KM385T-02003	Camshaft timing gear	1
19	L375-02002	Camshaft thrust plate	1
20	KM385T-01012	Cover plate	1
21	KM385T-01036	Cover plate gasket	1

KM385 Timing Case

Number	Part number	Description	Quantity
22	KM385T-01034	Timing needle	1
23	L375-01014	Idle gear hold-down	1
24-25	KM385T-01402-1	Idler gear assembly	1
24	KM385T-01402	Idler gear	1
25	KM385T-01401	Idler gear bush	1
26	LL480-01015	Idler gear axle	1
27	KM385T-01007-1	Timing gear case	1
28	GB119-86	Pin 8	1
29	GB5782-86	Bolt M8 ×55	1
30	JB2600-80	Oil seal DR55x75x12	1
31	L375-01025-1	Gear case front cover	1
32	L375-01030	Gear case front cover gasket	1
33	KM385T-01015	Timing gear case cover	1
34	KM385T-01009	Gear case cover gasket (with hydraulic pump)	1
34	KM385T-01009-1	Gear case cover gasket (without hydraulic pump)	1
35	KM385T-10900	Fuel injection advancer gear	1
36	L375-01010	Fuel injection pump gasket	1
37	GB93-87	Washer 8	1
38	GB898-88	Stud M8 ×20	1
39	GB6170-86	Nut M8	1
40	L375-01007	Gear case gasket	1
41	L375-01012	Fuel pump gear linker	1

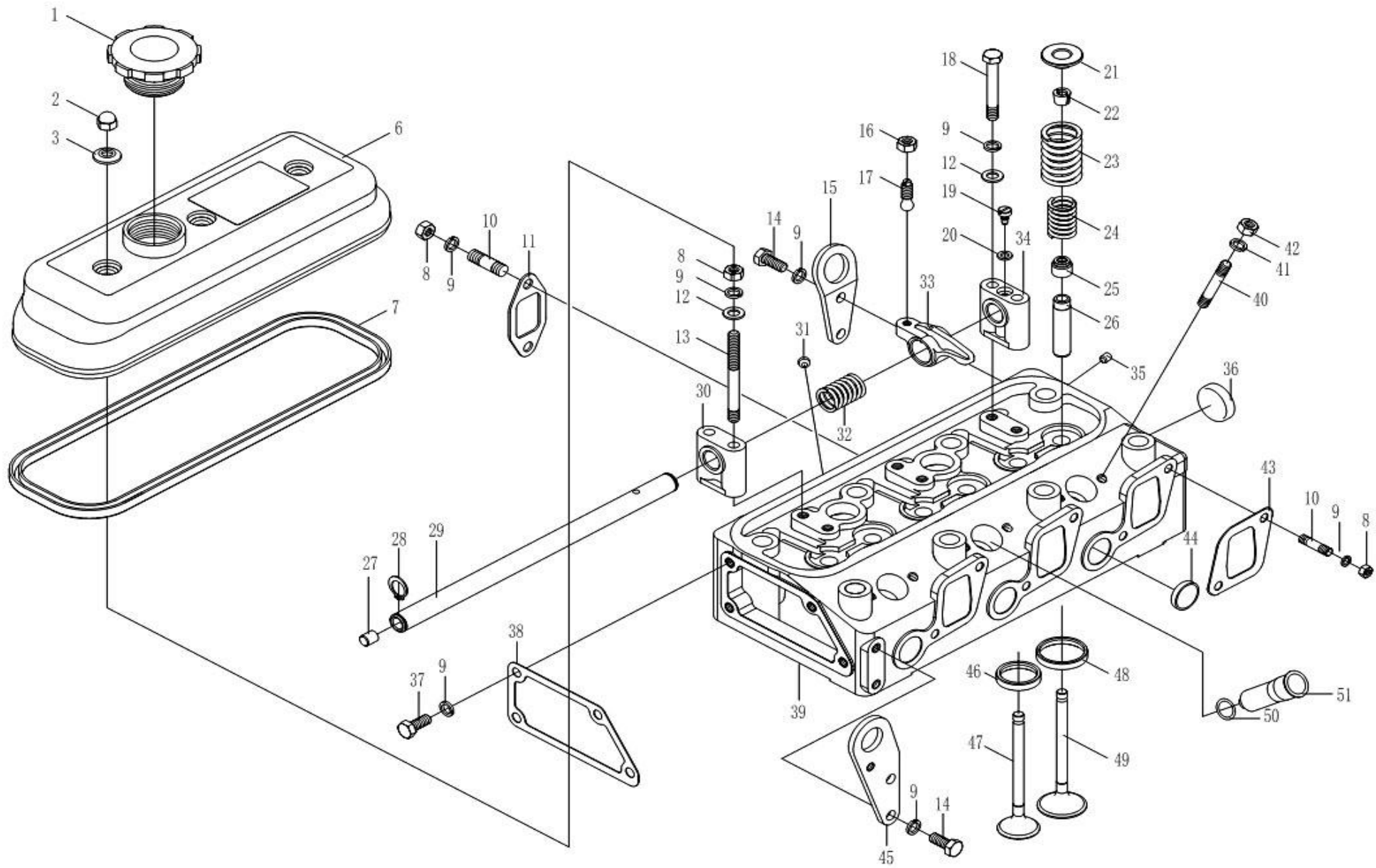
KM385 Camshaft



KM385 Camshaft

Number	Part number	Description	Quantity
1	GB5783-86	Bolt M12×35	1
2	GB93-87	Washer 12	1
3	KM385T-02012	Camshaft timing gear hold-down washer	1
4	KM385T-02003	Camshaft gear	1
5	L375-02002	Camshaft thrust plate	1
6	GB1096-79	Key C8×18	1
7	LL480-02003	Valve push rod	6
8	L375-02005	Valve tappet	6
9	L375-02001	Camshaft	1
10	KM385T-02013	Camshaft timing gear block ring	1

KM385 Cylinder Head



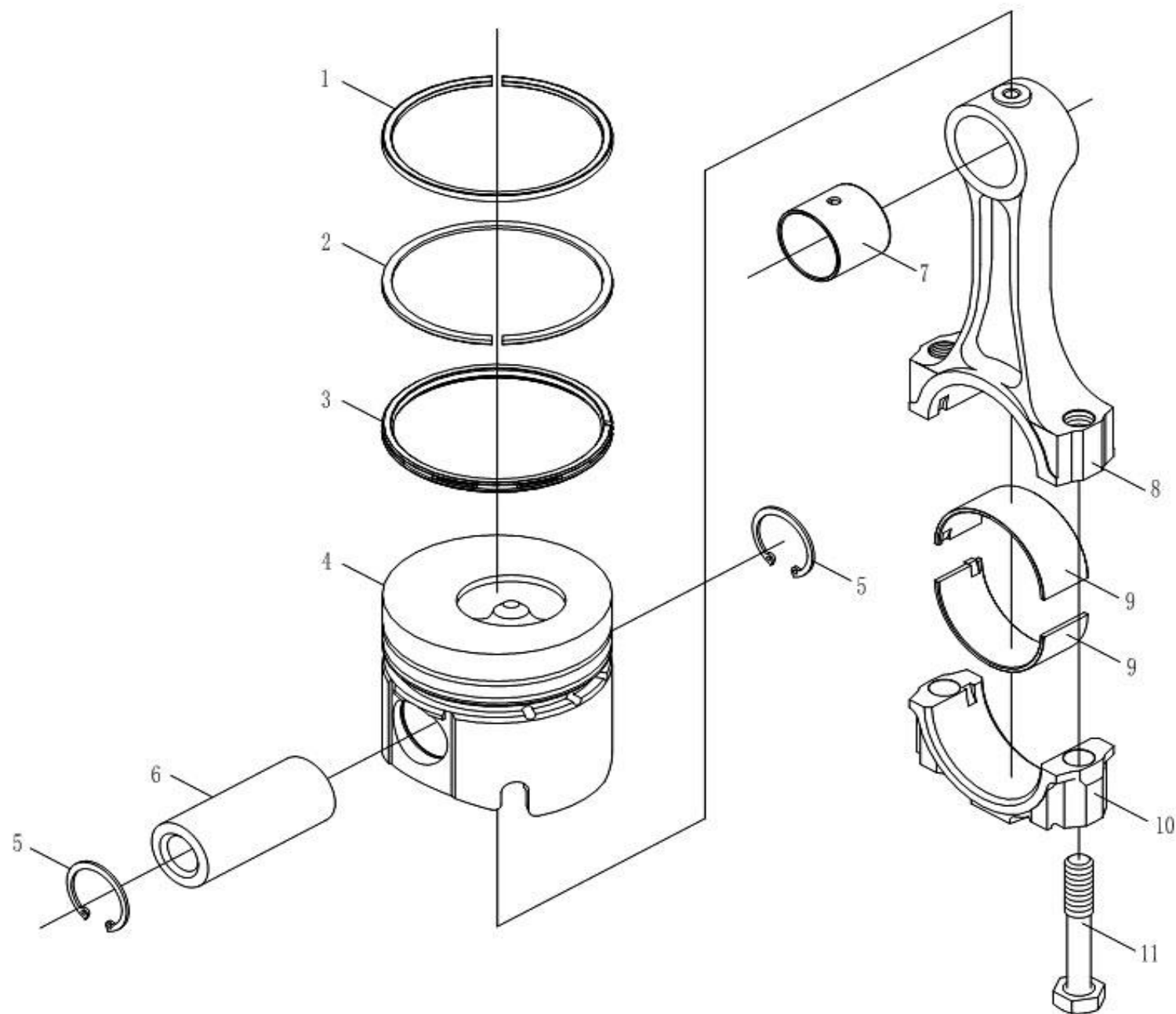
KM385 Cylinder Head

Number	Part number	Description	Quantity
1	L375-03005	Oil filler cap	1
2	GB923-76	Nut M8	3
3	L375-03302-5	Anti leak crush washer	3
6	LL380B-03301	Rocker cover	1
7	LL380B-03002	Rocker cover gasket	1
8	GB6170-86	Nut M8	15
9	GB93-87	Washer 8	26
10	GB898-88	Bolt M8×25	12
11	KM485QB-03006	Exhaust manifold gasket	3
12	GB97.1-85	Washer 8	6
13	L375-03001	Rocker arm seat fixed stud	3
14	GB5783-86	Bolt M8×20	4
15	L375-03011	Rear lifting eye	1
16	GB6171-86	Bolt M8×1	6
17	LL480B-03201	Valve clearance adjusting screw	6
18	GB5782-86	Bolt M8×60	3
19	L375-03206	Rocker shaft locating screw	1
20	GB848-85	Washer 6-100HV	1
21	LL480B-03009	Valve spring seat (upper)	6
22	LL480B-03008	Valve clamp	12
23	L375-03015	Valve outer spring	6
24	L375-03007	Valve inner spring	6
25	LL480B-03019	Valve oil seal	6
26	KM485QB-03102	Valve guide	6
	L375-03200-1	Valve rocker assembly	1

KM385 Cylinder Head

Number	Part number	Description	Quantity
27	L375-01115	Blind plug $\phi 10$	2
28	GB894.1-86	Circlip 16	2
29	L375-03205	Rocker shaft	1
30	L375-03202	Rocker shaft mount	2
31	L375-03107	Blind plug $\phi 8.3$	4
32	L375-03204	Rocker shaft spring	2
33	LL480B-03210	Valve rocker arm	6
34	L375-03207	Rocker shaft rear mount	1
35	D495QB-03110	Stopper $\phi 6$	1
36	D495QB-01024	Blind plug $\phi 32$	1
37	GB5783-86	Bolt M8 $\times$ 25	4
38	L375-03010	Thermostat housing gasket	1
39	KM385QB-03101	Cylinder head	1
40	LL480B-03114	Fuel injector bolt	6
41	GB93-87	Washer 6	6
42	GB804-88	Nut M6	6
43	LL480B-03013	Intake manifold gasket	3
44	L375-03106	Blind plug $\phi 25$	5
45	KM385T-03011-1	Front lifting eye	1
46	LL480B-03104	Exhaust valve seat	3
47	LL480B-03015	Exhaust valve	3
48	LL480B-03103	Intake valve seat	3
49	LL480B-03014	Intake valve	3
50	LL480B-03113	O-ring	3
51	LL480B-03111	Injector nozzle bush	3

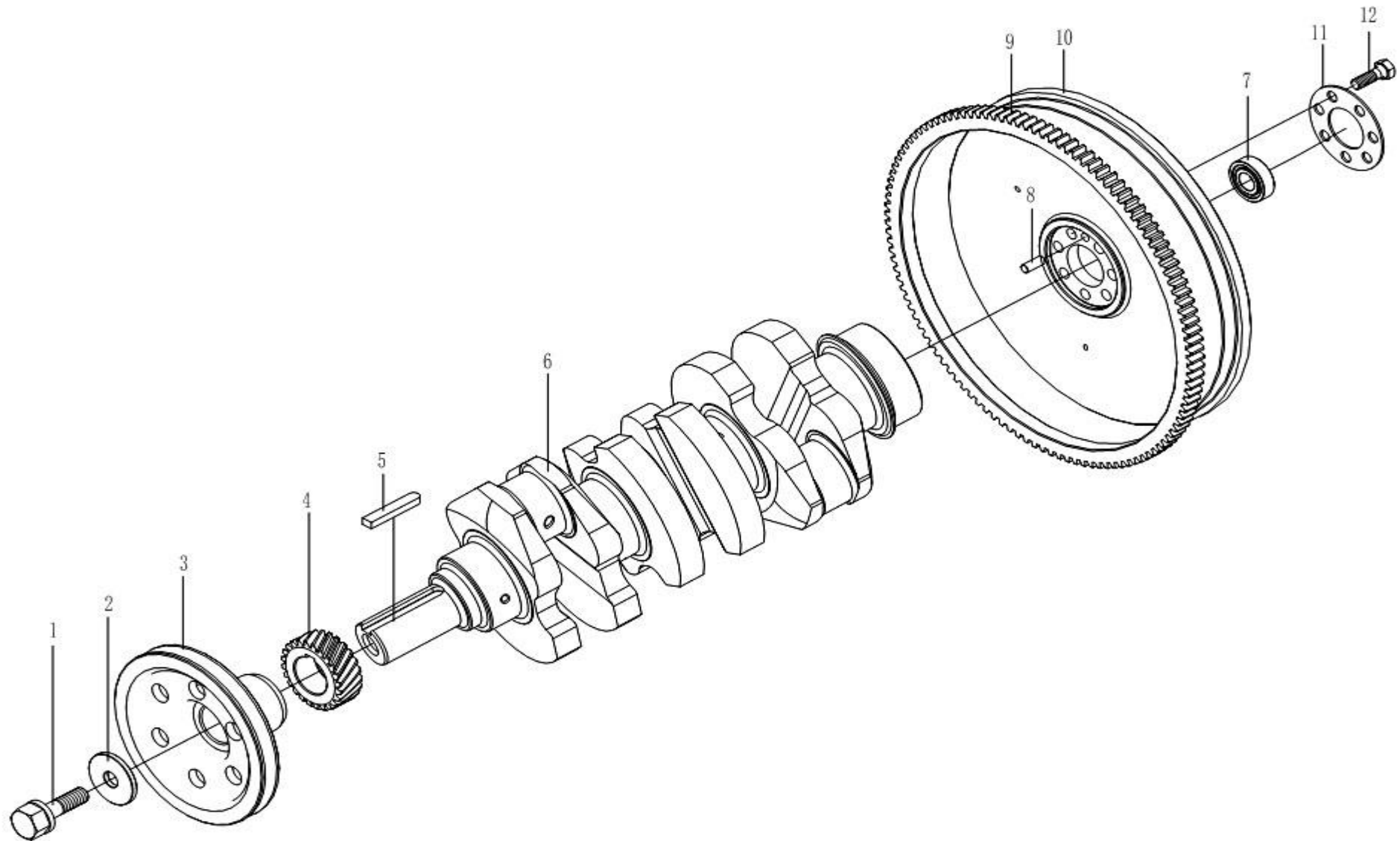
KM385 Piston and Connecting Rod



KM385 Piston and Connecting Rod

Number	Part number	Description	Quantity
1-3	KM485QB-04001-1	Piston ring set	3
1	KM485QB-04001	1st compression ring	3
2	KM485QB-04002	2nd compression ring	3
3	KM485QB-04100	Oil scraper ring	3
4	KM485QB-04005	Piston	3
5	KM485QB-04004	Piston pin	3
6	GB893.1-86	Circlip ϕ 28	6
7,8,10,11	KM485QB-04202-1	Connecting rod assembly	3
7	KM485QB-04201	Connecting rod bushing	3
8	KM485QB-04202	Connecting rod	3
9	KM485QB-04003	Connecting rod bearing set (2 pcs)	3
10	KM485QB-04203	Connecting rod cap	3
11	LL480-04204	Connecting rod bolt	6

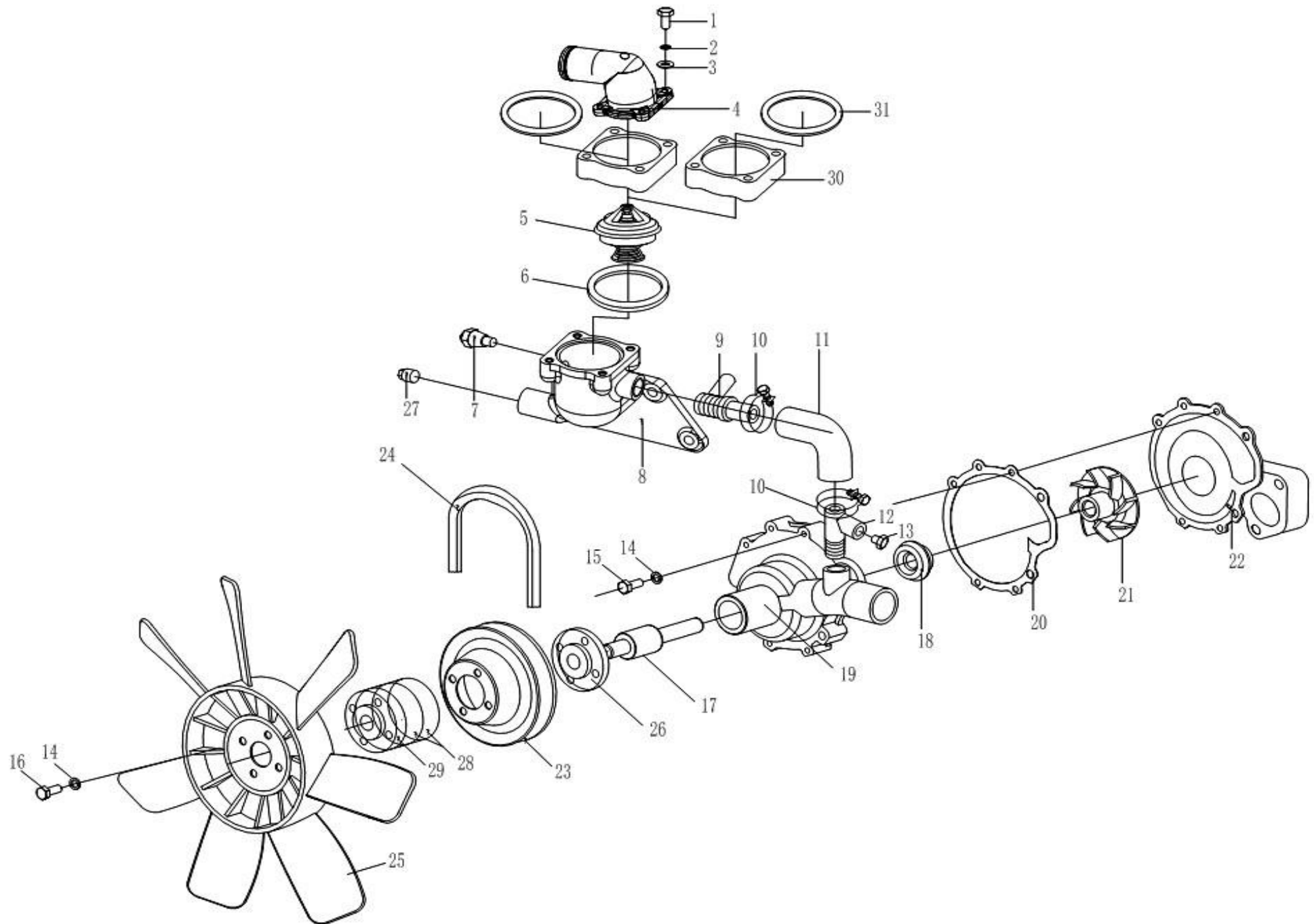
KM385 Crankshaft and Flywheel



KM385 Crankshaft and Flywheel

Number	Part number	Description	Quantity
1	KM385T-05006	Crankshaft pulley bolt	1
2	L375-05005	Crankshaft pulley washer	1
3	KM385T-05005	Crankshaft belt pulley	1
4	KM385T-05007	Crankshaft timing gear	1
5	GB1096-79	Key C10×63	1
6	KM385QB-05003	Crankshaft	1
7	GB/T276-94	Bearing 6203-2RS	1
8	GB119-86	Pin B8×20	1
9	LL480-05102	Flywheel ring gear	1
10	KM385T-05101-4	Flywheel KM385BT-37E	1
10	KM385T-05101-1	Flywheel KM385BT-37F	1
11	L375-05002	Flywheel bolt backing plate	1
12	KM385T-05001	Flywheel bolt	6

KM385 Cooling System



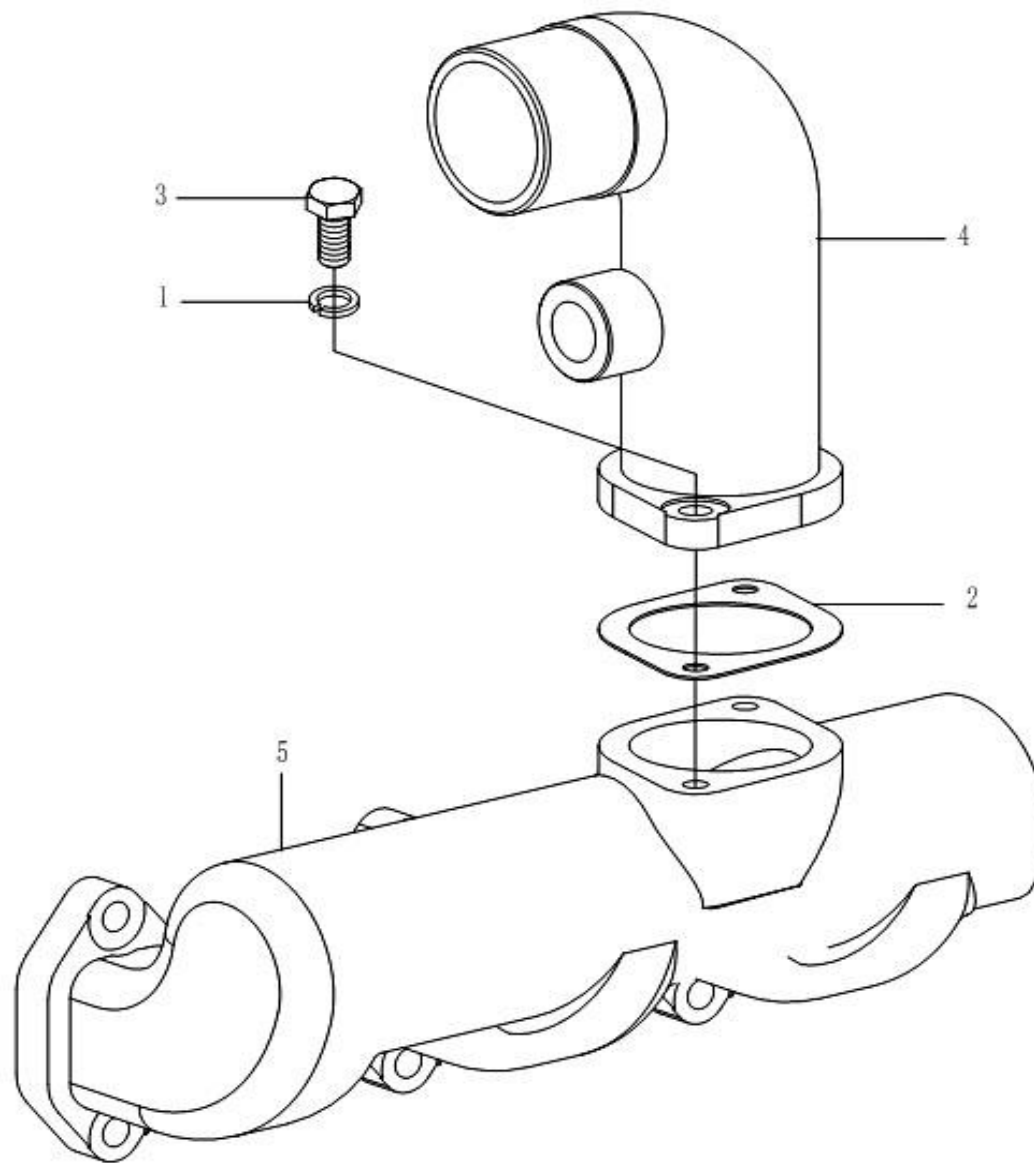
KM385 Cooling System

Number	Part number	Description	Quantity
	LL480-06100-5	Water pump assembly	1
1	GB/T898-1988	Bolt M6×105	4
2	GB93-87	Washer 6	4
3	GB848-85	Washer 6-140HV	4
4	LL380-06201-1	Thermostat cover	1
5	L375-06203	Thermostat	1
6	L375-06202	Thermostat cover gasket lower ring	1
7	L375-06206	Water temperature sensor	1
8	L375-06204	Thermostat housing	1
9	LL480-06303	Small circulating water pipe	1
10	ZBT32005.1-88	Clamp 26	2
11	LL380-06001	Coolant bypass hose	1
12	L375Y3-14-06110	Water pipe	1
13	L375Y3-14-06111	Stopper	1
14	GB93-87	Washer8	6
15	GB5783-86	Bolt M8×30	2
16	GB5780-86	Bolt M8×95	4

KM385 Cooling System

Number	Part number	Description	Quantity
17	LL480-06106	Water pump bearing	1
18	IIF-15	Water seal	1
19	LL480-06103-3	Water pump housing	1
20	L375-06107	Water pump housing gasket	1
21	LL480-06105	Water pump impeller	1
22	L375-06108	Water pump rear cover	1
23	LL480-06102	Belt pulley	1
24	GB/T12732-1996	Belt AV13-1050	1
25	L475-06300	Fan KM385BT-37E	1
25	LL380-06300	Fan KM385BT-37F	1
26	LL480-06113	Belt pulley hub	1
27	D495QB-06111-1	Stopper	1
28	4L22-06113-1	Fan mat 25	1
29	4L22-06113	Fan mat 16	1
30	KM385T-06208	Thermostat seat mat 40	1
30	KM385T-06208-1	Thermostat seat mat 77	1
31	KM385T-06209	Thermostat cover gasket upper ring	1

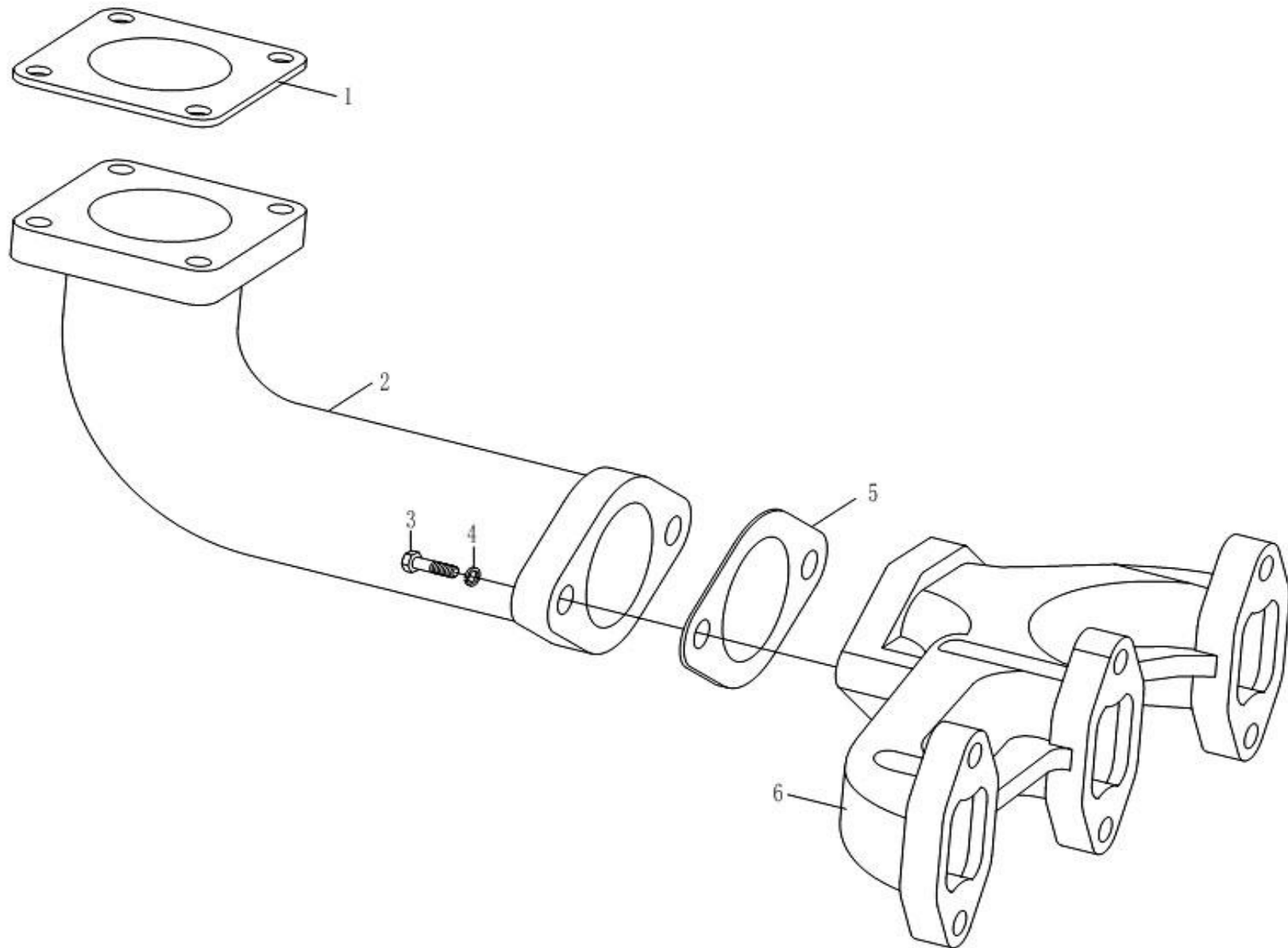
KM385 Intake Manifold



KM385 Intake Manifold

Number	Part number	Description	Quantity
1	GB93-87	Washer 10	2
2	L375Y3-07003	Intake manifold inlet gasket	1
3	GB5783-86	Bolt M10×30	2
4	KM385T-07004-6	Intake manifold cover joint pipe	1
5	KM385BT-07001-2	Intake manifold	1

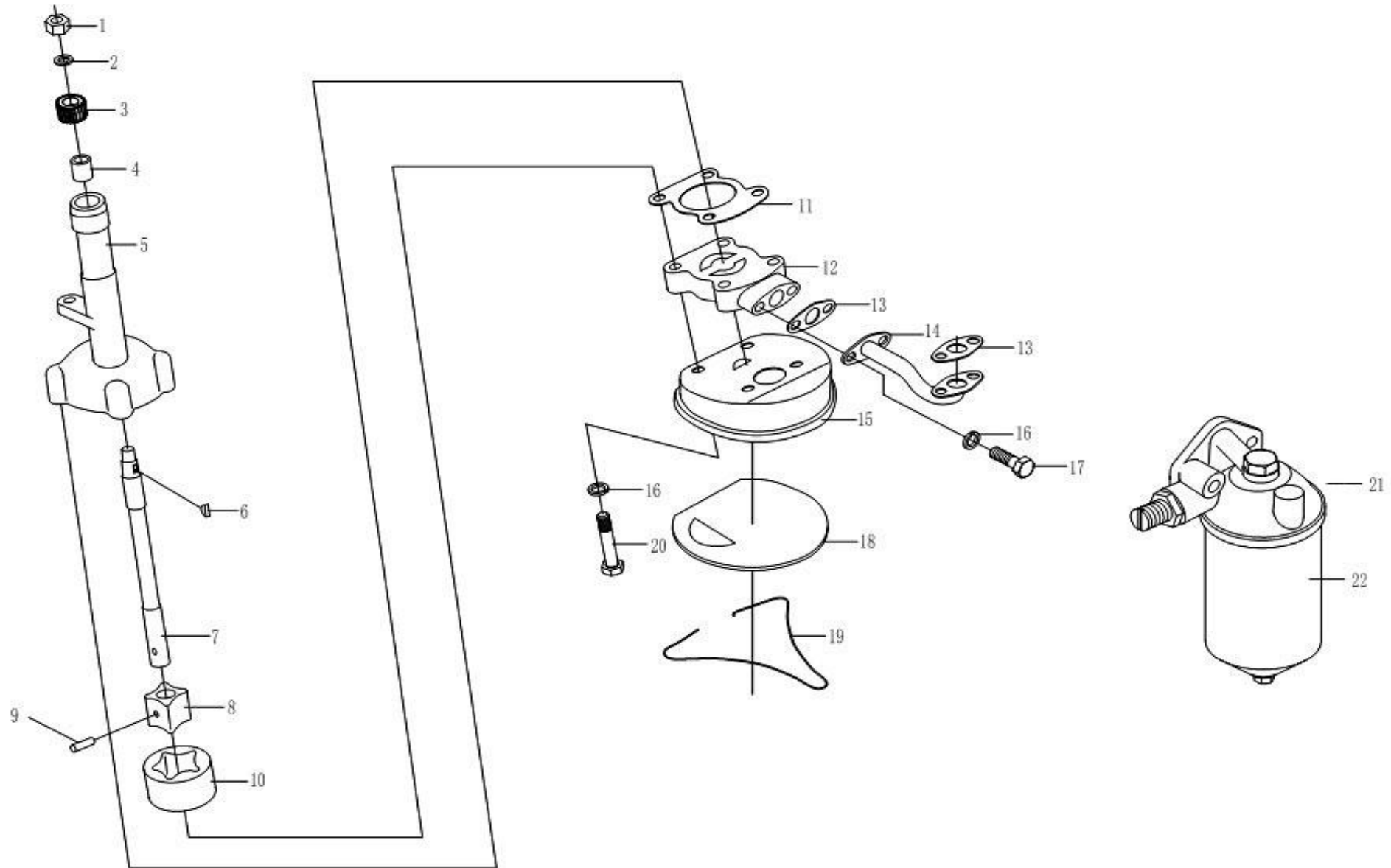
KM385 Exhaust Manifold



KM385 Exhaust Manifold

Number	Part number	Description	Quantity
1	KM385T-08004	Muffler gasket	1
2	KM385T-08003	Muffler connecting pipe	1
3	GB5783-86	Bolt M10×30	2
4	GB93-87	Washer 10	2
5	LL480-08002	Exhaust manifold outlet gasket	1
6	LL380B-08001	Exhaust manifold with side outlet	1
6	LL380B-08001-1	Exhaust manifold with bottom outlet	1

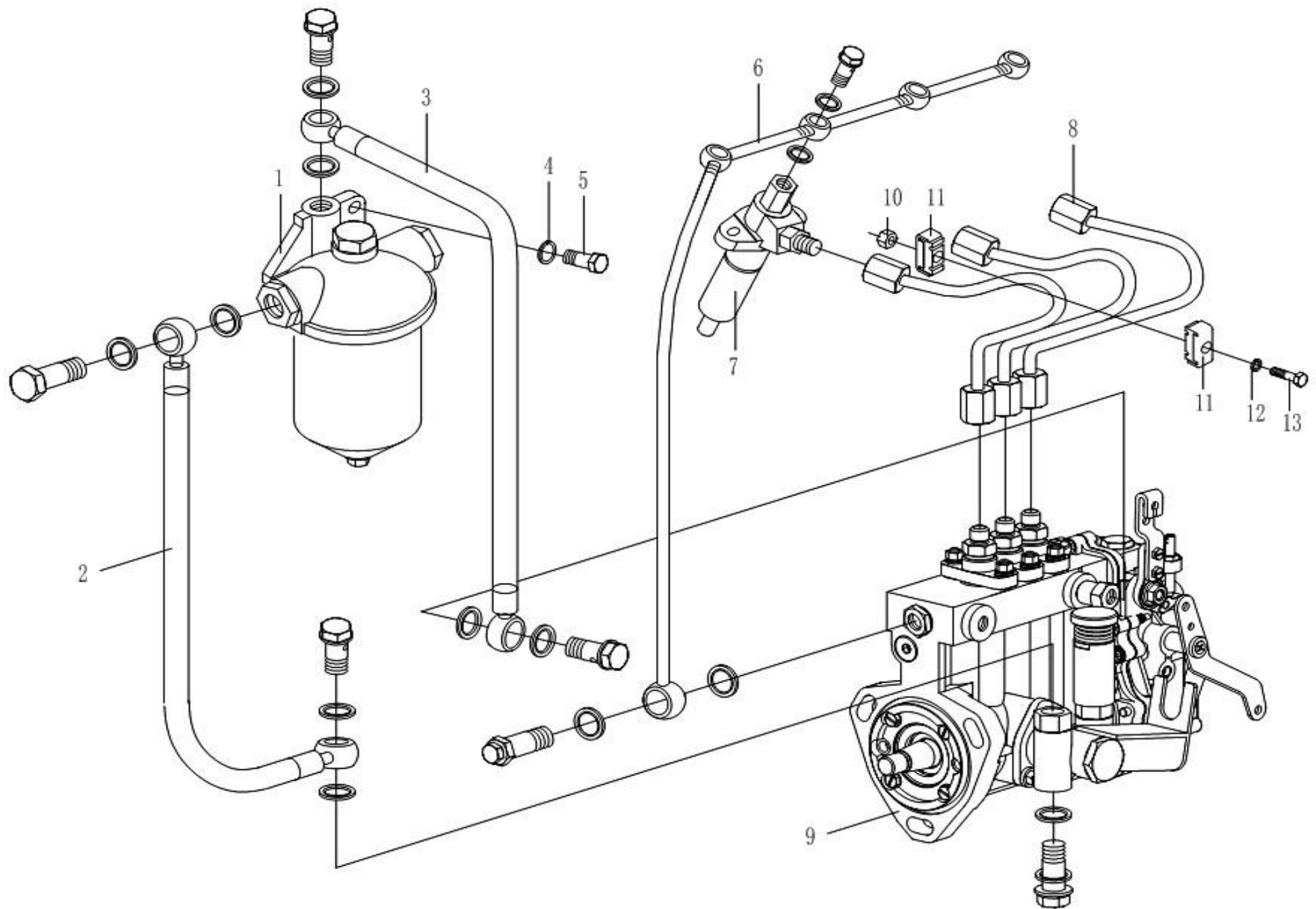
KM385 Lubrication



KM385 Lubrication

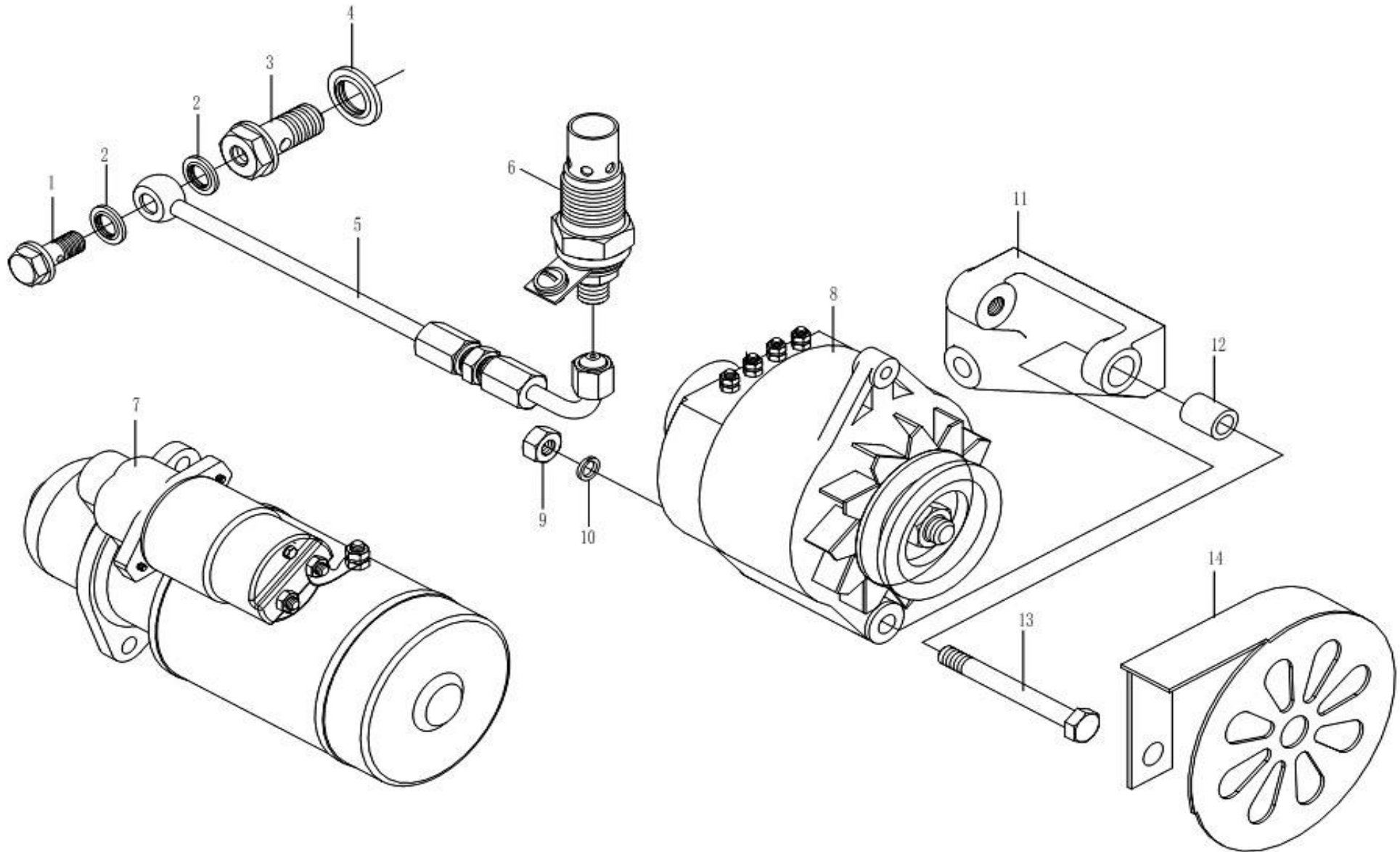
Number	Part number	Description	Quantity
1-12, 15-20	KM485QB-09100-2	Oil pump assembly	1
1	GB6170-86	Nut M10	1
2	GB93-87	Washer 10	1
3	LL480-09101	Oil pump driven gear	1
4	LL480-09102	Oil pump body bush	1
5	KM485QB-09103-2	Oil pump body	1
6	GB1099-79	Woodruff key 3×5×13	1
7	KM485QB-09111-2	Oil pump shaft	1
8	KM485QB-09104	Inner rotor	1
9	LL480-09113	Pin A5×18	1
10	KM485QB-09105	Outer rotor	1
11	LL480-09106	Oil pump body gasket	1
12	LL480-09107	Oil pump cover	1
13	L375-09001	Oil outlet pipe flange gasket	2
14	LL480-09400-1	Oil outlet pipe unit	1
15	LL480-09108	Gauze strainer	1
16	GB93-87	Washer 8	8
17	GB5783-86	Bolt M8×20	4
18	LL480-09200	Gauze	1
19	4L22-09108	Gauze support	1
20	GB5782-86	Bolt M8×45	4
21	KM385T-09300	Oil filter housing	1
22	JX0710	Oil filter	1

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KM385 Fuel System

Number	Part number	Description	Quantity
1	L375-10500-1	Fuel filter housing assembly	1
2	KM385T-10700	Lift pump to filter fuel hose	1
3	LL380-10600	Filter to injection pump fuel hose	1
4	GB93-87	Washer 8	1
5	GB5783-86	Bolt M8×25	1
6	KM385T-10400	Injector return hose	1
7	KM385T-10300	Fuel injector	3
8	KM385T-10200	High pressure injector lines	1
9	10100 (3I344)	Three cylinder BQ type injection pump assy	1
10	GB6170-86	Nut M6	2
11	D495QB-10600	Fuel injection line clamp	4
12	GB93-87	Washer 6	2
13	GB65-85	Screw M6×30	2



KM385 Electrical

Number	Part number	Description	Quantity
1	KM485QB-12603	Screw M8	1
2	L375-03017	Anti leak crush washer	2
3	KM485QB-12602	Bolt M12	1
4	KM485QB-12607	Washer ϕ 12	1
5	KM485QB-12604-1	Preheat fuel hose	1
6	KM485QB-12601	Preheat plug	1
7	QDJ1332	Starting motor unit	1
8	2JF200	Alternator	1
9	GB6170-86	Nut M10	1
10	GB93-87	Washer 10	1
11	KM385T-01028	Alternator bracket	1
12	L375-01031	Alternator bracket support bush	1
13	GB5782-86	Bolt M8×100	1
14	KM385T-12110	Alternator safety cover	1