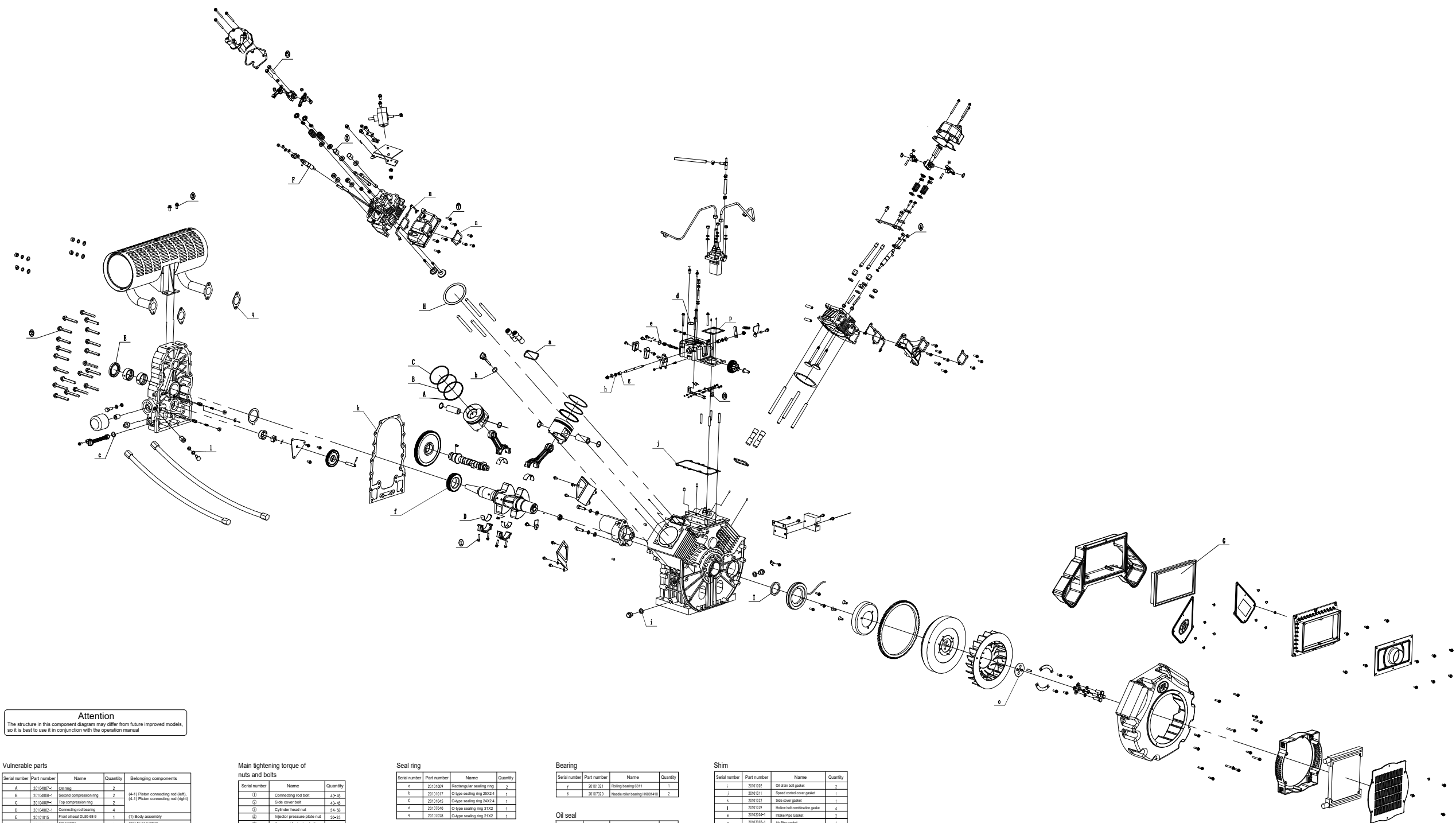
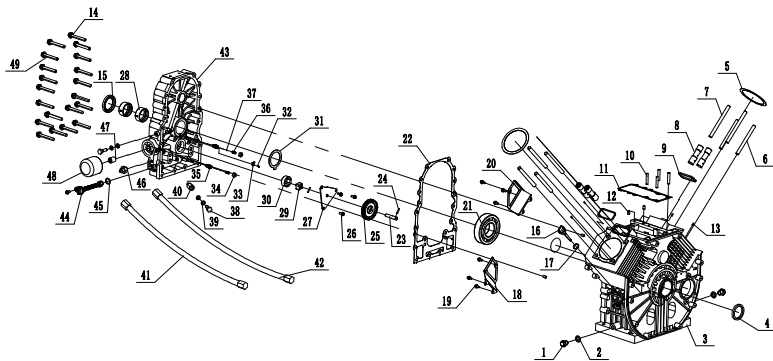


PARTS DRAWING

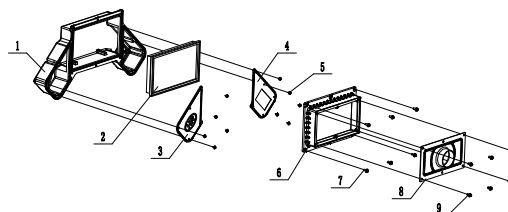
DIESEL ENGINE





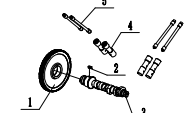
(1) Body assembly 20101000

Serial number	Part number	Name	Quantity
1	20101001	Oil drain bolt	2
2	20101002	Oil drain bolt gasket	2
3	20101003	Cylinder block	1
4	20101004	Flange bolt M10x16	1
5	20101005	Cylinder head gasket	2
6	20101006	Cylinder head double headed stud (short)	4
7	20101007	Cylinder head double headed stud (long)	4
8	20101008	Filter support	4
9	20101009	Hexagonal sealing ring	2
10	20101010	Oil pump double headed screw	4
11	20101011	Speed control cover gasket	1
12	20101012	Positioning pin M12	4
13	20101013	Positioning pin 40x8	1
14	20101014	Flange bolt M12x15	16
15	20101015	Port of seal CL 80-68-6	1
16	20101016	Oil duct	1
17	20101017	Crane sealing ring 20x2,4	1
18	20101018	Induced draft plate (right)	1
19	20101019	Flange bolt M12x12	6
20	20101020	Induced draft plate (left)	1
21	20101021	Rolling bearing 6011	1
22	20101022	Side cover gasket	1
23	20101023	Oil pump shaft	1
24	20101024	Oil pump gasket	2
25	20101025	Oil pump cover	1
26	20101026	Flange bolt M12x14	3
27	20101027	Flange cover plate	2
28	20101028	Sealing bush	2
29	20101029	Internal rotor of oil pump	1
30	20101030	Oil pump rotor rotor	1
31	20101031	Side cover retaining ring	1
32	20101032	Sealing bush	1
33	20101033	Side cover shaper	1
34	20101034	Pressure relief valve cover	2
35	20101035	Pressure relief valve body	2
36	20101036	Pressure relief valve regulating spring	2
37	20101037	Steel ball 6.35	2
38	20101038	Yellow ball	2
39	20101039	Yellow ball combination gasket	4
40	20101040	External oil pipe joint	1
41	20101041	Oil condenser of pipe 1	1
42	20101042	Oil condenser of pipe 2	1
43	20101043	Oil filter	1
44	20101044	Oil filter	1
45	20101045	Oil pump sealing ring 20x2,4	1
46	20101046	Oil pressure alarm	1
47	20101047	Oil filter screw	1
48	20101048	Oil filter	1
49	20101049	Flange bolt M10-170	4



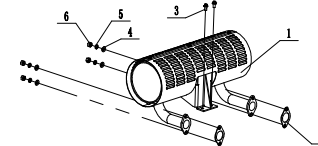
(6) Air intake system 20106000

Serial number	Part number	Name	Quantity
1	20106001	Intake hood	1
2	20106002	Air filter element	1
3	20106003	Left cover plate of intake hood	1
4	20106004	Right cover plate of intake hood	1
5	20106005	Self tapping screw ST5x10-10	10
6	20106006	Intake hood cover	1
7	20106007	Flange bolt M12x14	6
8	20106008	Air intake hood cover plate (short)	1
9	20106009	Flange bolt M12x12	6



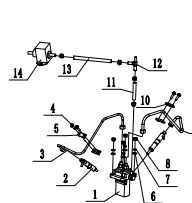
(10) Camshaft assembly 20101000

Serial number	Part number	Name	Quantity
1	20101001	Camshaft timing gear	1
2	20101002	Flat key 8x14	1
3	20101003	Camshaft	1
4	20101004	Valve tappet	4
5	20101005	Valve push rod	4



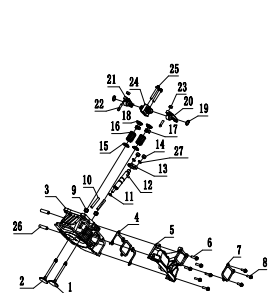
(11) Silencer assembly 201011000

Serial number	Part number	Name	Quantity
1	20101101	Power muffler	1
2	20101102	Exhaust flange gasket	2
3	20101103	Flange bolt M12x16	2
4	20101104	Flat pad 10	2
5	20101105	Elastic pad 10	2
6	20101106	Nut M10	2



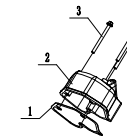
(12) Fuel system 201012000

Serial number	Part number	Name	Quantity
1	20101201	Oil pump	1
2	20101202	Oil nozzle	2
3	20101203	High pressure oil pipe (right)	1
4	20101204	Flange bolt M12x12	4
5	20101205	High pressure oil pipe pressure plate	4
6	20101206	Flat pad 8	4
7	20101207	Elastic pad 8	4
8	20101208	Nut M8	4
9	20101209	High pressure oil pipe (left)	1
10	20101210	Clamp	4
11	20101211	Oil pipeline 1	1
12	20101212	Nut	1
13	20101213	Oil pipeline 2	1
14	20101214	Oil pump	1



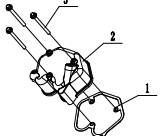
(2-1) Cylinder head (left) assembly 20102000-1

Serial number	Part number	Name	Quantity
1	20102001	Intake valve	1
2	20102002	Exhaust valve	1
3	20102003	Cylinder head (left)	1
4	20102004	Intake pipe gasket	1
5	20102005	Intake pipe (left)	1
6	20102006	Flange bolt M12x15	6
7	20102007	Air filter gasket	1
8	20102008	Flange bolt M12x16	1
9	20102009	Valve oil seal	2
10	20102010	Oil nozzle double headed stud	2
11	20102011	Oil nozzle adjustment copper pad	1
12	20102012	Oil nozzle	1
13	20102013	Oil nozzle pressure plate	1
14	20102014	Nut M8	2
15	20102015	Lower seat of valve spring	2
16	20102016	Valve spring	2
17	20102017	Valve collar	4
18	20102018	Upper seat of valve spring	2
19	20102019	Elastic retaining ring for shaft 15	2
20	20102020	Inner valve rocker arm seat	2
21	20102021	Exhaust valve rocker arm (left)	1
22	20102022	Arm arm screw	2
23	20102023	Rocking arm screw nut	2
24	20102024	Rocking arm seat	1
25	20102025	Arm seat fastening bolt	2
26	20102026	Muffler double headed screw	2
27	20102027	Elastic pad 8	2



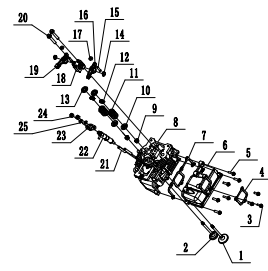
(3-1) Cylinder head cover (left) assembly 20103000-1

Serial number	Part number	Name	Quantity
1	20103001	Cylinder head cover gasket	1
2	20103002	Cylinder head cover (left)	1
3	20103003	Flange bolt M12x15	2



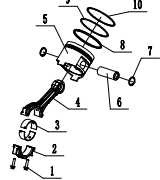
(3-2) Cylinder head cover (right) assembly 20103000-2

Serial number	Part number	Name	Quantity
1	20103001	Cylinder head cover gasket	1
2	20103002	Cylinder head cover (right)	1
3	20103003	Flange bolt M12x15	2



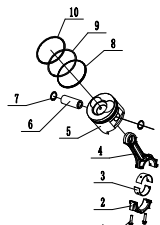
(2-2) Cylinder head (right) assembly 20102000-2

Serial number	Part number	Name	Quantity
1	20102001	Intake valve	1
2	20102002	Exhaust valve	1
3	20102003	Flange bolt M12x16	3
4	20102004	Air filter gasket	1
5	20102005	Flange bolt M12x15	6
6	20102006	Intake pipe (right)	1
7	20102007	Intake pipe gasket	1
8	20102008	Cylinder head (right)	1
9	20102009	Valve oil seal	2
10	20102010	Upper seat of valve spring	2
11	20102011	Valve spring	2
12	20102012	Valve collar	4
13	20102013	Lower seat of valve spring	2
14	20102014	Elastic retaining ring for shaft 15	2
15	20102015	Arm arm screw	2
16	20102016	Inner valve rocker arm (right)	1
17	20102017	Rocking arm screw nut	2
18	20102018	Rocking arm seat	1
19	20102019	Exhaust valve rocker arm (right)	1
20	20102020	Arm seat fastening bolt	2
21	20102021	Oil nozzle double headed stud	2
22	20102022	Oil nozzle	1
23	20102023	Oil nozzle pressure plate	1
24	20102024	Nut M8	2
25	20102025	Elastic pad 8	2



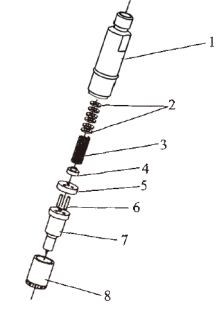
(4-1) Cylinder head (left) assembly 20104000-1

Serial number	Part number	Name	Quantity
1	20104001	Connecting rod bolt	1
2	20104002	Connecting rod cap	1
3	20104003	Connecting rod bearing	2
4	20104004	Connecting rod body	1
5	20104005	Piston pin	1
6	20104006	Piston pin	1
7	20104007	Elastic retaining ring for hole 28	2
8	20104008	Oil ring	1
9	20104009	Second compression ring	1
10	20104010	Top compression ring	1



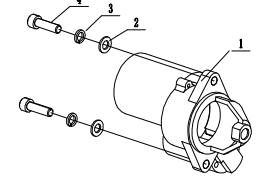
(4-2) Cylinder head (right) assembly 20104000-2

Serial number	Part number	Name	Quantity
1	20104001	Connecting rod bolt	1
2	20104002	Connecting rod cap	1
3	20104003	Connecting rod bearing	2
4	20104004	Connecting rod body	1
5	20104005	Piston pin	1
6	20104006	Piston pin	1
7	20104007	Elastic retaining ring for hole 28	2
8	20104008	Oil ring	1
9	20104009	Second compression ring	1
10	20104010	Top compression ring	1



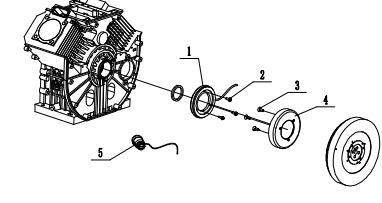
(8) Fuel injector assembly 20108000

Serial number	Part number	Name	Quantity
1	20108001	Fuel injector body components	1
2	20108002	Stem	1
3	20108003	Pressure regulating spring	1
4	20108004	Top pin	1
5	20108005	Intermittent	1
6	20108006	Positioning sales	2
7	20108007	Fuel injector	1
8	20108008	Spray nozzle light cap	1



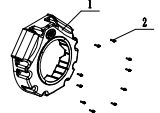
(14) Starting motor assembly 201014000

Serial number	Part number	Name	Quantity
1	201014001	Starting motor	1
2	201014002	Flat pad 10	2
3	201014003	Elastic pad 10	2
4	201014004	Internal hexagon bolt M10x25	2



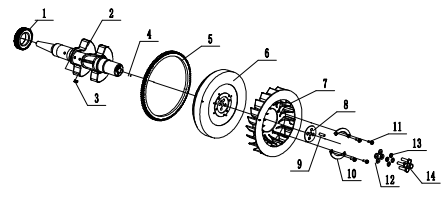
(15) Flywheel generator assembly 201015000

Serial number	Part number	Name	Quantity
1	201015001	Flywheel generator stator	1
2	201015002	Flange bolt M12x16	3
3	201015003	Hexagonal socket flat base screw M12x15	3
4	201015004	Flywheel generator rotor	1
5	201015005	Elastic disc lock	1



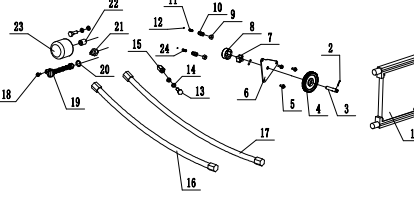
(16) Windshield assembly 201016000

Serial number	Part number	Name	Quantity
1	201016001	Air gate cover	1
2	201016002	Cushion bolt M12x25	15



(5) Crankshaft flywheel assembly 20105000

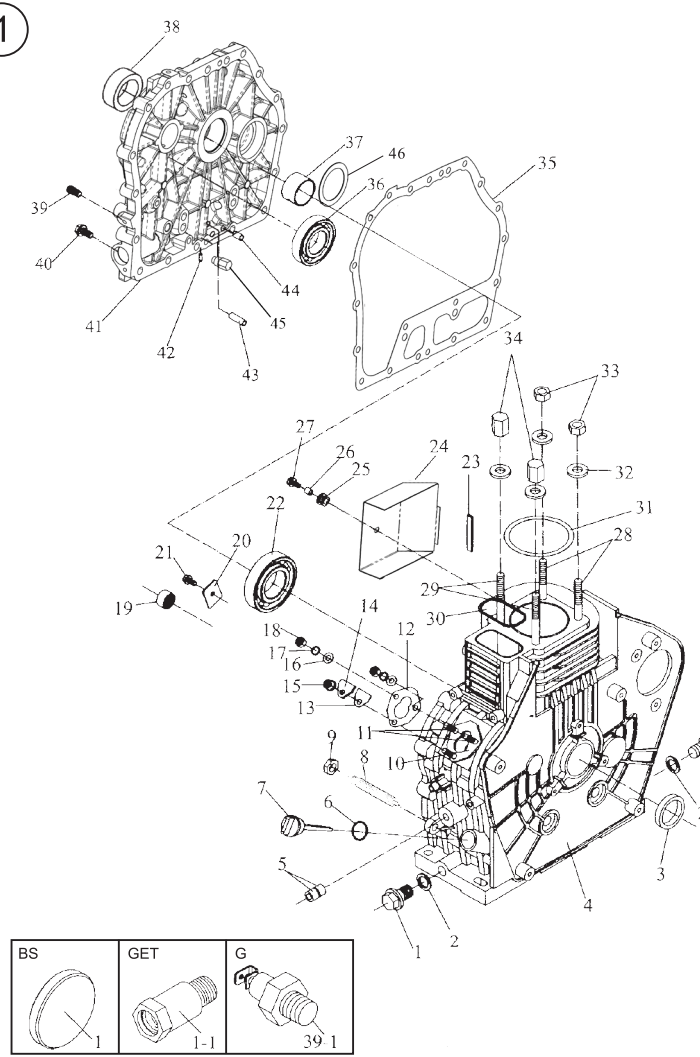
Serial number	Part number	Name	Quantity
1	20105001	Camshaft timing gear	1
2	20105002	Camshaft	1
3	20105003	Flat key 8x14	1
4	20105004	Steel ball 6.35	1
5	20105005	Flywheel ring gear	1
6	20105006	Free wheel	1
7	20105007	Wind blade	1
8	20105008	Flywheel gasket	1
9	20105009	Positioning pin 5x25	1
10	20105010	Fan Plate	2
11	20105011	Flange bolt M12x16	4
12	20105012	Flat pad 10	4
13	20105013	Elastic pad 10	4
14	20105014	Outer hexagon bolt M10x25	4



(9) Lubrication system 20109000

Serial number	Part number	Name	Quantity
1	20109001	Oil condenser	1
2	20109002	Oil pump valve	2
3	20109003	Oil pump shaft	1
4	20109004	Oil pump gear	1
5	20109005	Flange bolt M12x14	3
6	20109006	Oil pump cover plate	1
7	20109007	Internal rotor of oil pump	1
8	20109008	Oil pump rotor rotor	1
9	20109009	Pressure relief valve cover	2
10	20109010	Pressure relief valve body	2
11	20109011	Pressure relief valve regulating spring 1	1
12	20109012	Steel ball 6.35	2
13	20109013	Yellow ball	2
14	20109014	Yellow ball combination gasket	4
15	20109015	External oil pipe joint	1
16	20109016	Oil condenser of pipe 1	1
17	20109017	Oil condenser of pipe 2	1
18	20109018	Flange bolt M12x14	1
19	20109019	Oil filter	1
20	20109020	Crane sealing ring 20x2,4	1
21	20109021	Oil pressure alarm	1
22	20109022	Oil filter screw	1
23	20109023	Oil filter	1
24	20109024	Pressure relief valve regulating spring 2	1

(1) Cylinder block assembly 10101000



Serial number	Part number	Name	Quantity
1	13101001	Drain plug	2
1-1	11801001	Drain plug connecting plug	2
2	13101002	Drain plug seal assembly	1
3	13101003	Oil seal SG35X50X8(rear)	1
4	10101001	Cylinder block	1
5	10101002	Needle bearing	2
6	12101006	O-ring	2
7	12101003	Oil dipstick	2
8	13101008	Oil sensor	1
9	13101009	Nut	1
10	13101010	Fuel injection pump fastening bolt(short)	1
11	13101011	Fuel injection pump fastening bolt(long)	2
12	13101012	Fuel injection pump gasket	2
13	13101013	Seal gasket	1
14	13101014	Seal plate	1
15	30100035	Nut	3
16	30100034	Washer	2
17	30100033	Washer	2
18	30100035	Nut	2
19	13101015	Needle bearing	1
20	13101016	Thrust washer	1
21	13101017	Bolt	1
22	10101004	Ball bearing	2
23	12101004	Shock absorber strip	1
24	10101005	Air shroud	1
25	12101006	Shock absorber block	1
26	12101007	Sheath	1
27	12101001	Bolt	1
28	10101006	Cylinder head bolt (short)	2
29	10101007	Cylinder head bolt (long)	2
30	10101008	Seal ring	1
31	10101009	Cylinder head gasket	1
32	10101010	Cylinder head nut washer	4
33	10101011	Cylinder head nut (thin)	2
34	10101012	Cylinder head nut (thick)	2
35	10101013	Crank case gasket	1
36	10101016	Ball bearing	1
37	10101014	Main bearing shell	1
38	13101031	Oil seal SG35x50x8(front)	1
39	13101033	Hexagon screw	1
39-1	12301001	Low oil pressure alarm	1
40	13101032	Bolt	16
41	10101015	Crank case cover	1
42	13101035	Aluminum plug	3
43	12101018	Inlet conduit	1
44	13101036	Pin	1
45	13101038	Pressure relief valve	1
46	13101039	Bearing steel gasket	1

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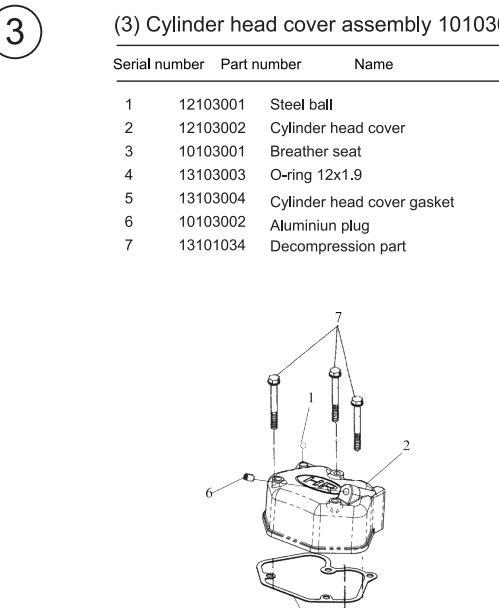
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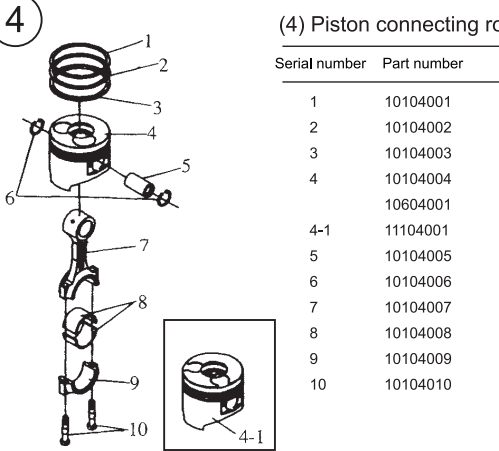
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(3) Cylinder head cover assembly 10103000



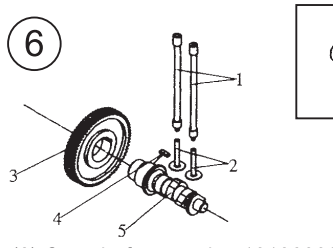
Serial number	Part number	Name	Quantity
1	12103001	Steel ball	1
2	12103002	Cylinder head cover	1
3	10103001	Breather seat	1
4	13103003	O-ring 12x1.9	1
5	13103004	Cylinder head cover gasket	1
6	10103002	Aluminium plug	1
7	13101034	Decompression part	3

(4) Piston connecting rod assembly 10104000



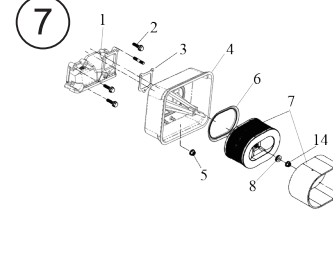
Serial number	Part number	Name	Quantity
1	10104001	Top compression ring	1
2	10104002	Second compression ring	1
3	10104003	Oil ring set	1
4	10104004	Piston	1
10604001		Piston	1
4-1	11104001	Piston	1
5	10104005	Piston pin	1
6	10104006	Retainer ring	2
7	10104007	Connecting rod	1
8	10104008	Connecting rod bearing shell	2
9	10104009	Connecting rod CAP	1
10	10104010	Connecting rod nut	2

(6) Camshaft assembly 10106000



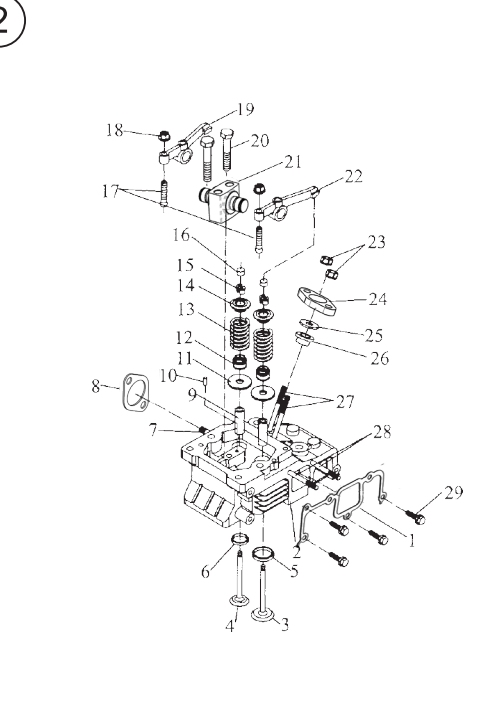
Serial number	Part number	Name	Quantity
1	10106001	Valve push rod	2
2	10106002	Valve tappet	2
3	10106003	Camshaft timing gear	1
4	13106004	Key	1
5	10106004	Camshaft	1
11106001		Camshaft	1
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5-1	10606001	Camshaft	1
1	10606002	Key	1

(7) Air cleaner assembly 10107000



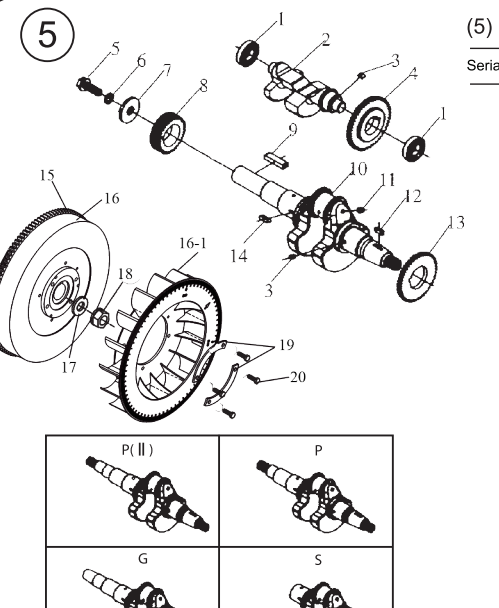
Serial number	Part number	Name	Quantity
1	10107001	Air intake pipe	1
2	13107002	Air filter fastening bolt	3
3	10107002	Air filter fastening gasket	1
4	10107003	Air filter bottom cover part	1
5	30100035	Nut	3
6	10107004	Shockproof seal ring II	1
7	10107005	Air filter element	1
8	10107006	Shockproof part	1
9	10107007	Seal ring	1
10	10107008	Shockproof seal I	1
11	10107009	Air filter cover	1
12	10107010	Shockproof seal assembly	1
13	13108002	Nut	1

(2) Cylinder head assembly 10102000



Serial number	Part number	Name	Quantity
1	10102001	Intake pipe gasket	1
2	10102002	Cylinder head	1
3	10102003	Intake valve	1
4	10102004	Exhaust valve	1
5	10102005	Intake seat	1
6	10102006	Exhaust seat	1
7	13102007	Bolt AM6x20	2
8	10102007	Exhaust pipe gasket	1
9	10102008	Valve pipe	2
10	13102010	Pin	1
11	10102009	Valve spring washer	2
12	10102010	Valve pipe oil seal	2
13	10102011	Valve spring	2
14	10102012	Valve spring seat	2
15	10102013	Valve collet	4
16	10102014	Valve adjusting block	2
17	10102015	Valve adjusting screw	2
18	13102018	Valve adjustment lock nut	2
19	10102016	Exhaust valve rocker arm	1
20	10102017	Rocker arm bracket fastening bolt	2
21	10102018	The rocker bracket	1
22	10102019	Inlet valve rocker arm	1
23	30100035	Nut	2
24	13102023	Fuel injector pressing plate	1
25	13102024	Insulating sleeve washer	1
26	13102025	Insulating sleeve	1
27	13102026	Bolt AM6X20	2
28	10102020	Bolt AM6X75	2
29	30100037	Bolt	4

(5) Crankshaft flywheel assembly 10105000



Serial number	Part number	Name	Quantity
1	10105001	Ball bearing	2
2	10105002	Balance shaft	1
3	10105003	Key	2
4	10105004	Balancing shaft timing gear	1
5	10105006	Output fastening bolt	1
6	30102032	Washer	1
7	12105004	Compaction washer	1
8	10105007	Crankshaft timing gear	1
9	12105006	Key	1
10	12105009	The crankshaft	1
11105001		The crankshaft	1
10305001		The crankshaft	1
11605001		The crankshaft	1
11705001		The crankshaft	1
10605001		The crankshaft	1
11	13105016	Steel ball	1
12	13105010	Key	1
13	10105010	Balance shaft drive gear	1
14	10105011	Key	1
15	10105012	Flywheel ring gear	1
16	10105013	The flywheel	1
16-1	10605002	Fan blades	1
17	10105004	Flywheel nut washer	1
18	10105015	The flywheel nut	1
19	10105016	Fan pressure plate	1
20	13101020	Bolt	4

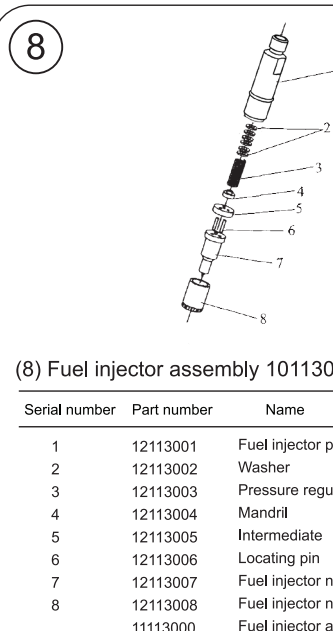
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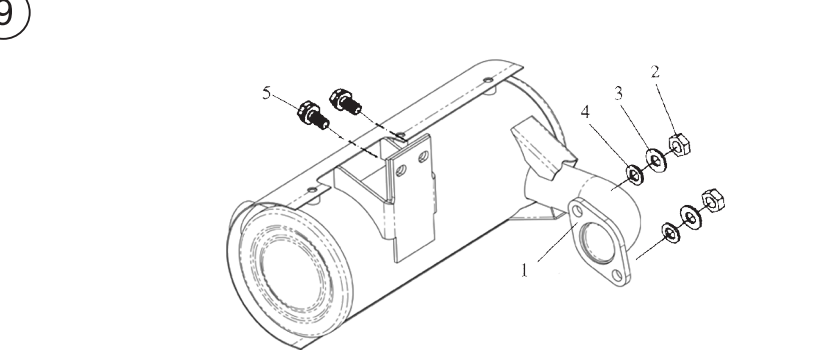
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(8) Fuel injector assembly 10113000



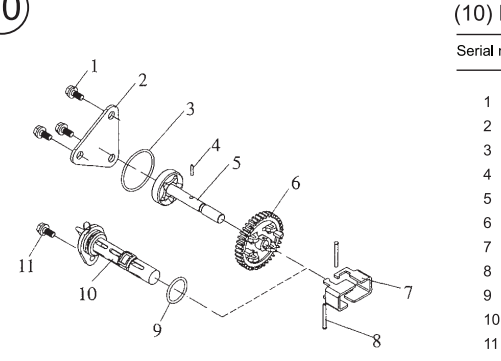
Serial number	Part number	Name	Quantity
1	12113001	Fuel injector part	1
2	12113002	Washer	1
3	12113003	Pressure regulating spring	1
4	12113004	Mandril	1
5	12113005	Intermediate	1
6	12113006	Locating pin	2
7	12113007	Fuel injector nozzle	1
8	12113008	Fuel injector nozzle cap	1
11113000		Fuel injector assembly	1

(9) Muffler assembly 10108000



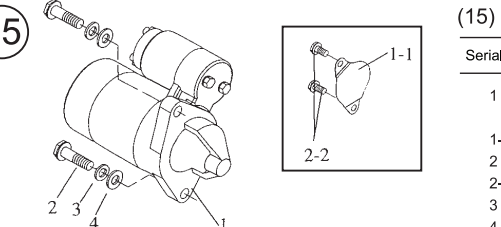
Serial number	Part number	Name	Quantity
1	10108001	Muffler assembly	1
2	13108002	Nut	2
3	30100026	Spring washer	2
4	13108003	Washer	2
5	13108004	Bolt	2

(10) Lubrication system 10109000



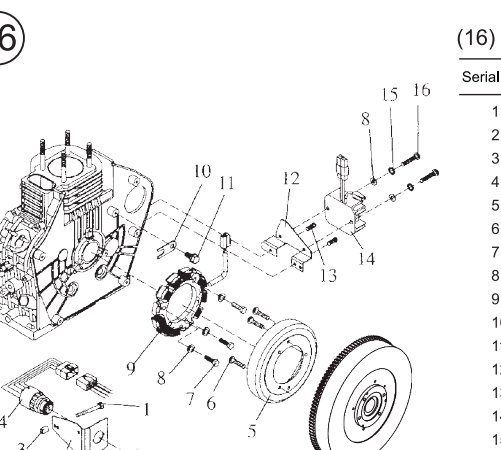
Serial number	Part number	Name	Quantity
1	13101020	Bolt	3
2	13109001	Oil pump cover plate	1
3	13109002	O-ring	1
4	13109003	Pin	1
5	13109005	Oil pump part	1
6	12109001	Oil pump driving gear	1
7	13111001	Fly hammer	2
8	13111002	Fly hammer pin	2
9	13109008	O-ring	1
10	12109002	Oil filter part	1
11	13108004	Bolt	1

(15) Starter motor assembly 10115000



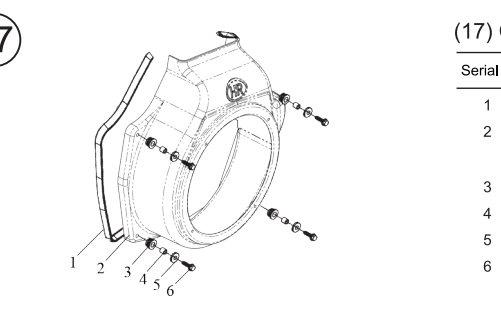
Serial number	Part number	Name	Quantity
1	10115001	Starter motor assembly	1
10615001		Starter motor assembly	1
1-1	13115001	Cover of starting motor hole	1
2	12115001	Bolt	2
2-2	13115004	Bolt	2
3	30102032	Washer	2
4	30104005	Washer	2

(16) Flywheel generator assembly 10116000



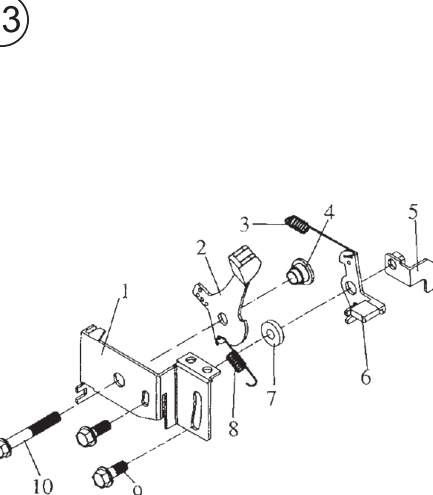
Serial number	Part number	Name	Quantity
1	10116001	Bolt	2
2	13116002	Electric start switch board	1
3	13116003	Long washer	2
4	13116004	Electric start switch body	1
5	13116005	Rotor part	1
6	13116006	Bolt	3
7	30101008	Bolt	3
8	30100034	Washer	5
9	13116007	Stator part	1
10	13116008	Press plate	1
11	13101020	Bolt	1
12	13116009	Governor support bracket	1
13	13116010	Bolt	2
14	13116011	Regulator	1
15	30100033	Washer	2
16	13116010	Bolt	2

(17) Cooling device assembly 10117000



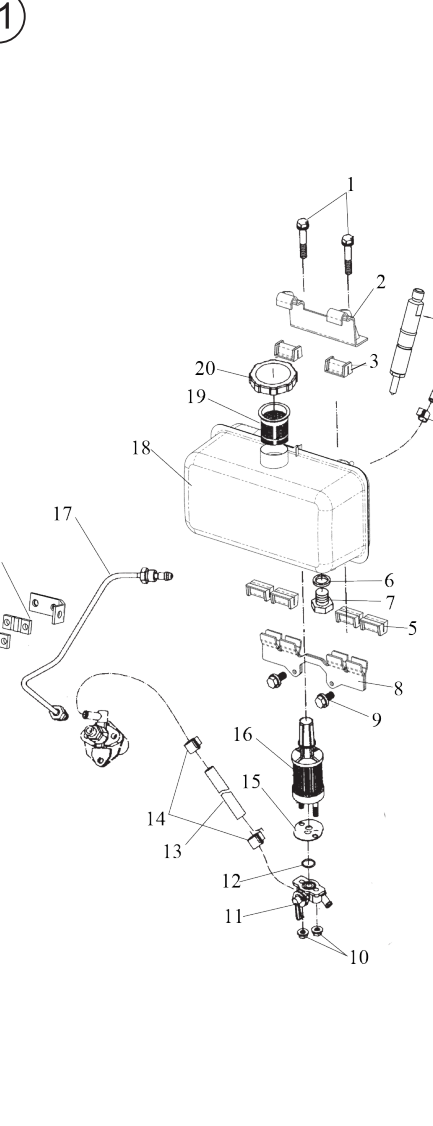
Serial number	Part number	Name	Quantity
1	10117001	Lining	1
2	10117002	Wind fan cover weldment assembly	1
10617001		Wind fan cover weldment assembly	1
3	13117003	Shock absorbing lining	4
4	13117004	Lining	4
5	13117005	Washer	4
6	13117006	Bolt	4

(13) Speed regulation and control system 10111000



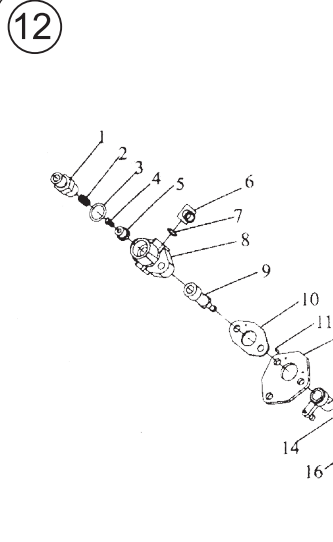
Serial number	Part number	Name	Quantity
1	10311001	Handle bracket	1
2	10311002	Control handle	1
3	12311003	Return spring I	1
4	10311004	Pushing&pulling operation handle shaft I	1
5	10311005	Pressure plate weldment	1
6	10311006	Parking handle	1
7	12311006	Bushing&pulling handle shaft washer	1
8	13111004	Return spring II	1
9	13111020	Bolt	2
10	13111021	Bolt	1

(11) Fuel system 10110000



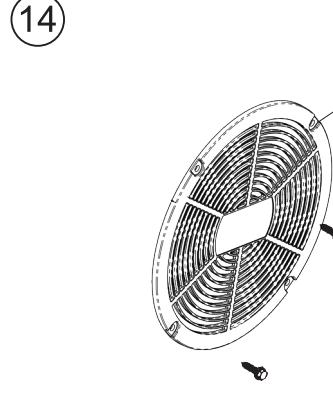
Serial number	Part number	Name	Quantity
1	13111001	Bolt	1
2	10110001	Fuel tank upper bracket	1
3	13110004	Shock absorbing pad	4
4	13110005	Oil return pipe	1
5	13110006	Oil return pipe clamp	2
6	13110007	Oil drain bolt gasket	1
7	13110008	Bolt	1
8	13110009	Fuel tank lower bracket	1
9	13108004	Bolt	2
10	30100035	Nut	2
11	13110010	Fuel tank switch body part	1
12	13110011	O-ring	1
13	13110013	Fuel pipe	1
14	13110012	Clamp	2
15	13110014	Fuel filter gasket	4
16	10110002	Fuel filter element	1
17	10110003	High pressure fuel pipe	1
18	10110004	Fuel tank	1
19	13110017	Fuel tank filter	1
20	13110018	Fuel tank cap	1
21	10111005	High pressure tubing fastener	1
22	13105006	Bolt	2

(12) Fuel injection pump assembly 10112000



Serial number	Part number	Name	Quantity
1	12112001	Delivery valve holder	1
2	12112002	Delivery valve spring	1
3	12112003	Delivery valve washer	1
4	12112004	Delivery valve core	1
5	12112005	Delivery valve seat	1
6	12112006	Tubing body weldment	1
7	12112007	O-ring	1
8	12112008	Pump body	1
9	12112009	Plunger	1
10	12112010	Washer	As needed
11	12112011	Pin	2
12	12112012	Pump body connection plate	1
13	12112013	Fuel control sleeve connection plate	1
14	12112014	Steel cable baffle ring	1
15	12112015	Pin	1
16	12112016	Supporter	2
17	12112017	Plunger spring	1
18	12112018	Spring lower seat	1
19	12112019	Tappet body	1
10312000		Fuel injection pump assembly	1

(14) Air hood cover 10114000



Serial number	Part number	Name	Quantity
1	13114012	Bolt	4
2	13114021	Air hood cover	1