



CSHLL1.53LDE DIESEL ENGINE PARTS CATALOGUE

SHANDONG HUAYUAN LAIDONG ENGINE CO.,LTD.

INTRODUCTION

This book serves the users as a reference for ordering CSHLL1.53LDE parts required. In order to make a right supply, please state the name and type of the machine, the date and manufacturer number of ex-work, and state the name of the part, parts number according to this book when ordering.

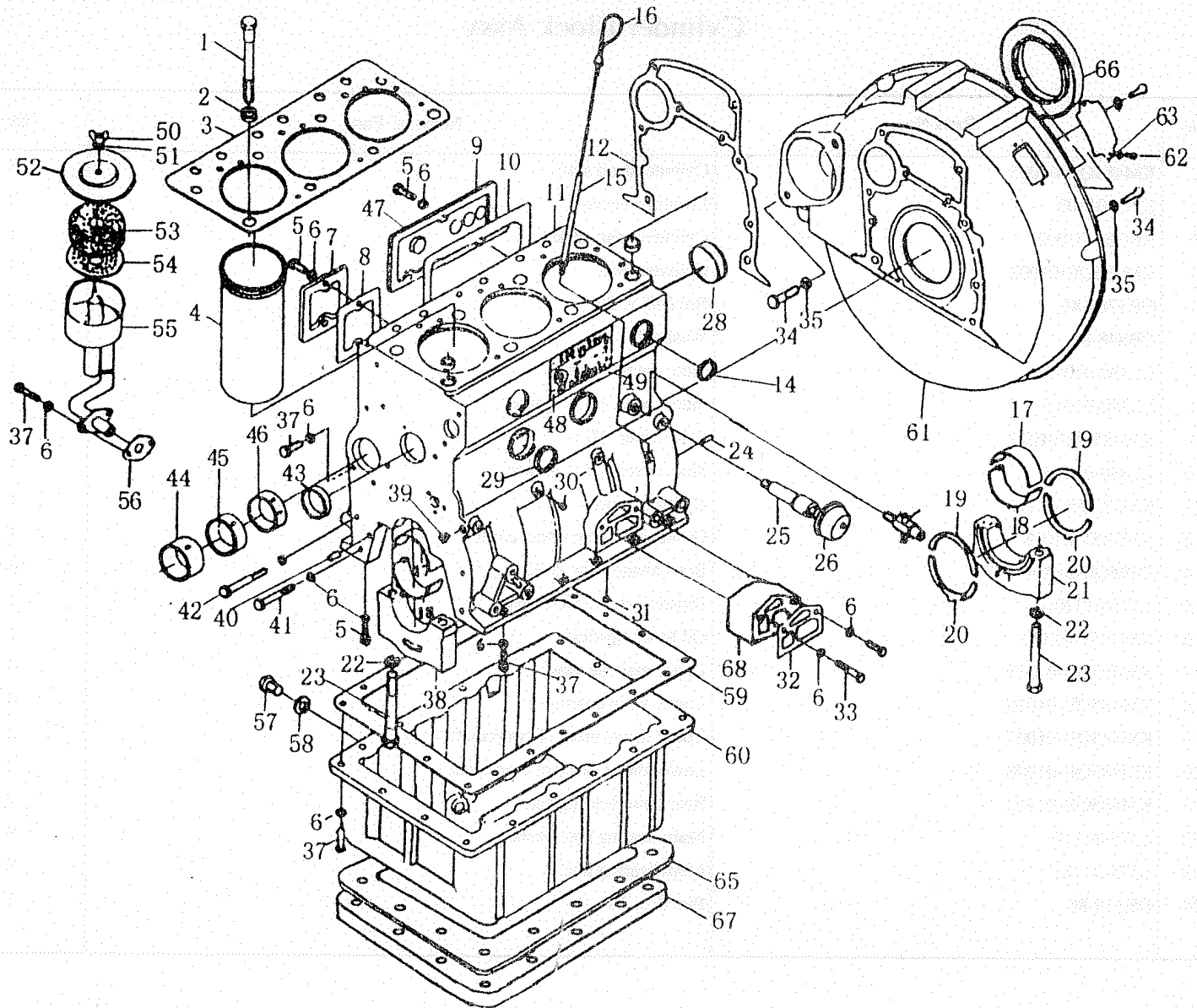
It is necessary to improve or revise the construction for meeting the needs of users and requirements for developing market. The parts in the book are subject to change without notice or may vary from country to country, please check with your distributor at the time of placing your order.

If there are some place not very clear or correct, please inform us.

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CYLINDER BLOCK ASSY



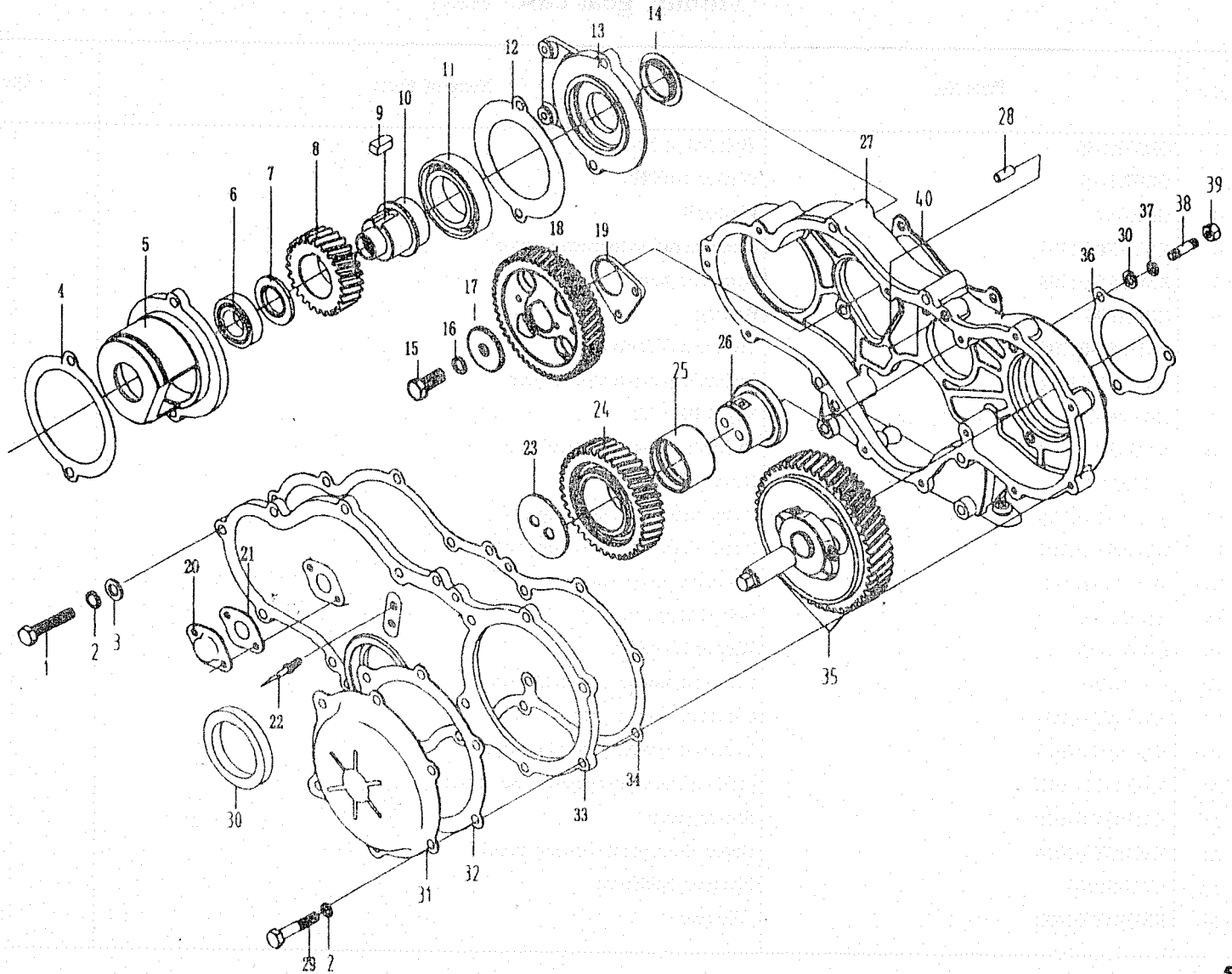
Cylinder Block Assy

No	Parts No	Name of Parts	Qty
1	KM485QB-01005	Cylinder head stud	8
2	L375-01103	Locating sleeve	2
3	KM385-01002	Cylinder head gasket	1
4	KM485QB-01003	Cylinder liner	3
5	GB5783-86	BoltM8 × 20	1
6	GB848-85	Washer 8	7
7	LL380-01012	Side cover (I)	1
8	LL380-01015	Side cover (I) gasket	1
9	KM485QB-01013	Side cover (II)	1
10	LL480-01014	Side cover (II) gasket	1
11	KM385QB-01111	Cylinder block	1
12	KM385T-01018	Gasket of flying wheel cover	1
14	D495QB-01024	Bowl shape plug ϕ 32	4
15	L375-01320-1	Dipstick sleeve weldment	1
16	KM385T-01300	Oil level dipstick	1
17	KM485QB-01015	Upper main bearing	4
18	KM485QB-01016	Lower main bearing	4
19	KM485QB-01007	Upper thrust piece of crankshaft	2
20	KM485QB-01008	Lower thrust piece of crankshaft	2
21	KM485QB-01113	Rear main bearing cap	1
22	L375-01110	Main bearing bolt washer	8
23	L375-01111	Main bearing bolt	8
24	GB119-86	Pin 8 × 18	1

No	Parts No	Name of Parts	Qty
25	KM385T-01035	Connecting pipe for oil pressure sensor	1
26	L375-12500	Oil pressure sensor	1
28	D495QB-01021	Bowl shape plug ϕ 28	1
29	D495QB-01014	Bowl shape plug	1
30	L375-01103	Main route plug	3
31	L375-01115	Bowl shape plug	2
32	L375-01027	Oil filter gasket	1
33	GB5783-86	BoltM8 $\times$ 60	2
34	GB5783-86	BoltM10 $\times$ 30	2
35	GB848-85	Washer 10-100HV	2
37	GB5783-86	Bolt M8 $\times$ 18	2
38	KM485QB-01112	Main bearing cap	24
39	L375-01104	Plug	3
40	GB91-86	Pin2 $\times$ 12	2
41	GB5783-86	BoltM8 $\times$ 55	1
42	GB5783-86	BoltM8 $\times$ 45	4
43	D495QB-03105	Bowl shape plug ϕ 42	4
44	L375-01112	Front bush of camshaft	1
45	L375-01113	Middle bush of camshaft	1
46	KM485QB-01114	Rear bush of camshaft	1

No	Parts No	Name of Parts	Qty
47	KM485QB-01101	Bowl shape plug	3
48	GB873-86	Rivet 2 × 5	4
49	KM385TA-03302	Brand mark	1
50	GB62-88	Butterfly nutM6	1
51	GB848-85	Washer6 -100HV	1
52	D495QB-012104	Respirator cover	1
53	LL380-01203	Net	1
54	KM485QB-01211	Air tube	1
55	D495QB-01212	Respirator	1
56	KM485QB-01011	Respirator gasket	1
57	LL380-01501	Oil drain bolt	1
58	LL380-01503	A type washer ϕ 14	1
59	KM385T-01019	Oil pan gasket	1
60	KM385T-015101	Oil pan	1
61	KM385T-01010-4	Flywheel housing	1
62	GB67-85	Bolt M6 × 12	2
63	GB97.1-85	Washer6	2
64	LL480-01025	Cover plate	1
65	KM385T-015111	Oil pan cover gasket	1
66	JB2600-80	Cased rubber oil seal	1
67	KM385T-015104	Oil pan cover	1
68	KM385T-01027	Oil filter padding block	1

Gearcaseassy

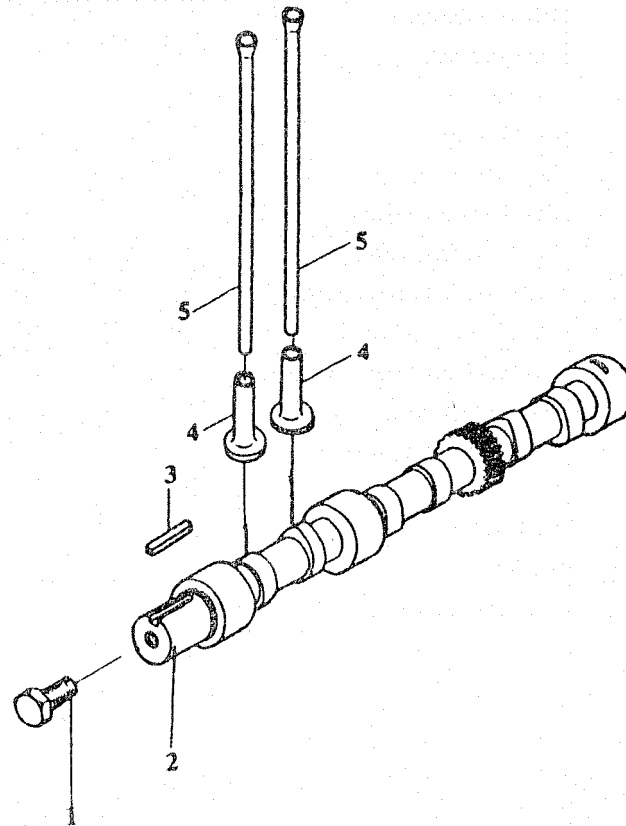


Timing gear case Assy

No	Parts No	Name of Parts	Qty
1	GB5783-86	Bolt M8 × 30	1
2	GB97.1-85	Washer 8-100HV	2
3	GB93-87	Washer 8	1
4	KM385T-01708	Pump transition connecting plate	1
5	KM385T-01703	Hydraulic pump	1
6	GB276-94	Bearing	1
7	KM385T-01705	Bearing holddown circlip	1
8	KM385T-01704	Hydraulic pump transition gear	1
9	GB1096-79	Key C10 × 22	1
10	KM385T-01702	Hydraulic pump transition axle	1
11	GB292-94	Bearing 7008C	1
12	KM385T-01708	Pump transition connecting plat	1
13	KM385T-01701	Pump transition connecting plate	1
14	4L22BT-01710	Hydraulic pump port plug	1
15	GB5783-86	Bolt M12 × 35	1
16	GB97.1-85	Washer 12-100HV	1
17	L375-02012	Camshaft timing gear holddown	1
18	KM385T-02003	Camshaft timing gear	1
19	KM385T-02013	Camshaft timing gear block ring	1
20	KM385T-01012	padding blockTiming gear case cover	1
21	KM385T-01026	Sensor gasket	1
22	KM385T-01034	Upper death point showing needle	1
23	L375-01014	Idle gear holddown	1
24	KM385T-01402	Idle gear	1

No	Parts No	Name of Parts	Qty
25	KM385T-01401	Idle gear bushing	1
26	KM385T-01038	Idle gear axle	1
27	KM385T-01007-1	Timing gear case	1
28	GB119-86	Pin $B8 \times 50$	1
29	GB5782-86	Bolt $M8 \times 55$	1
30	JB2600-80	Cased rubber oil seal	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	Gasket of gear case cover gasket	1
35	KM385T-10900	Oil injection advacer assy	1
36	L375-01010	Fuel pump fasten gasket	1
37	GB93-87	Washer 8	1
38	GB898-88	Stud $M8 \times 20$	1
39	GB6170-86	Nut M8	1
40	L375-01007	Gear case gasket	1

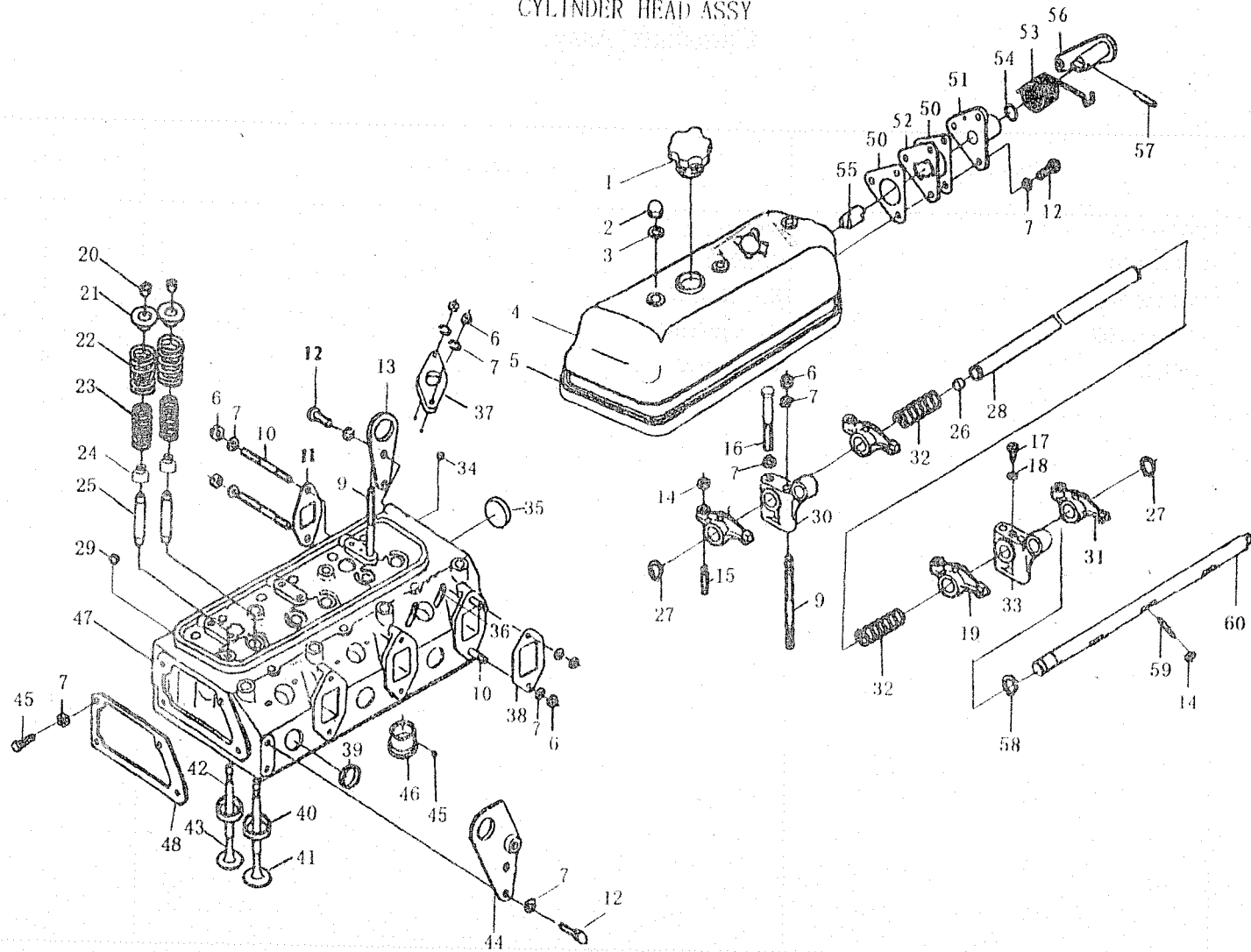
CAMSHAFT ASSY



Camshaft Assy

No	Parts No	Name of Parts	Qty
1	GB5783-86	Bolt M12 × 35	1
2	L375-02001	Camshaft	1
3	GB1096-79	Key C8 × 18	1
4	LL480-02003	Valve push rod	6
5	L375-02005	Valve tappet	6

CYLINDER HEAD ASSY



Cylinder Head Assy

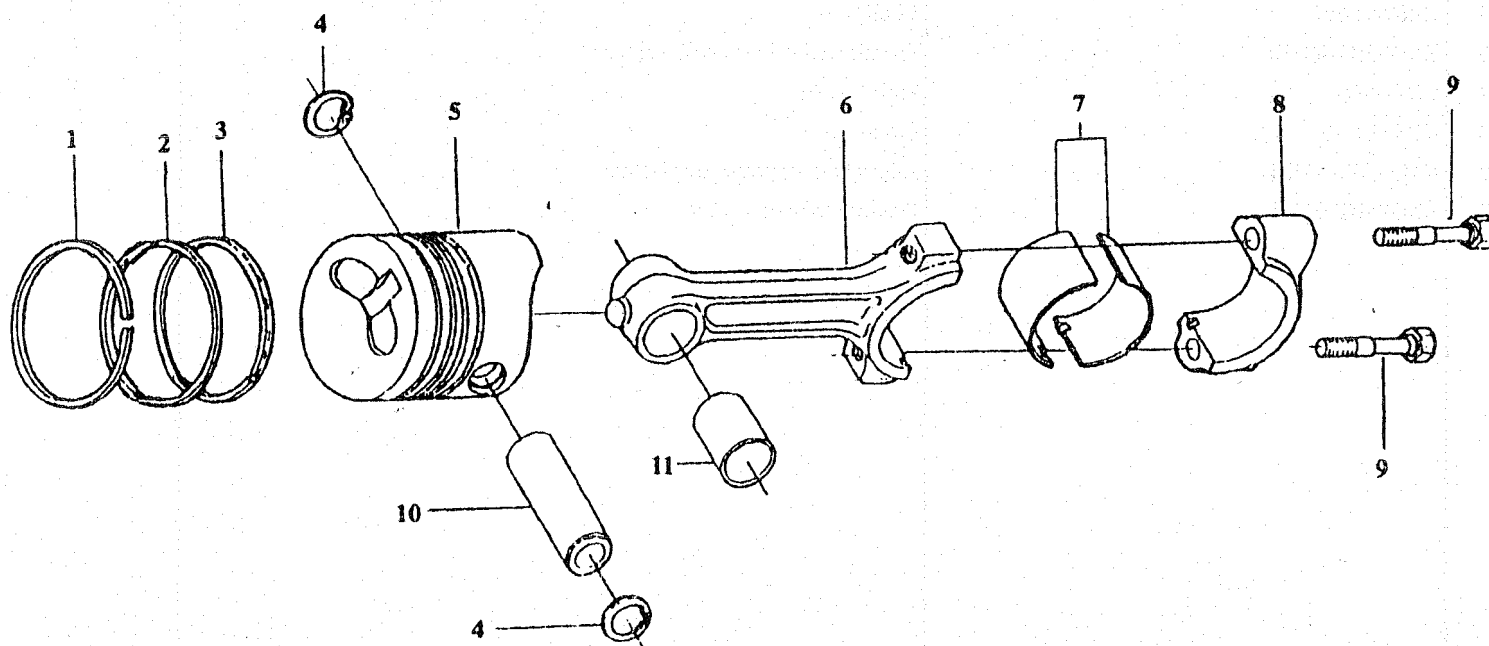
No	Parts No	Name of Parts	Qty
1	L375-03005	Oil filler cap	1
2	GB923-88	Cap nut	3
3	L375-03017	Washer Φ 8	3
4	KM385T - 03301 - 1	Cylinder head cap	1
5	KM385-03002	Cylinder head cap gasket	1
6	GB6170-86	Nut M 8	21
7	GB93-87	Washer 8	32
8	GB97.1-86	Washer 8	6
9	KM385BT-03001	Rockshaft seat fasten bolt	1
9	KM385BT-03001-1	Rockshaft seat fasten bolt	2
10	GB898-88	Bolt M8 $\times$ 25	12
11	4L22-03006	Exhaust pipe gasket	3
12	GB5783-86	Bolt M8 $\times$ 25	4
13	L375-03012	Rear hoisting ring	1
14	GB6171-86	Nut M 8 $\times$ 1	6
15	LL480B-03201	Valve clearance adjusting screw	6
16	GB5781-86	Bolt M8 $\times$ 60	3
17	L375-03206	Rockshaft locating screw	1
18	GB848-85	Washer 6	2
19	4L22-03210	Exhaust valve rocker	3
20	LL480B-03008	Valve collet	12
21	4L22-03009	Valve spring upper seat	6
22	4L22-03015	Valve outer spring	6
23	4L22-03007	Valve inner spring	6
24	LL480B-03019	Valve seal	6

200A Diesel Engine

No	Parts No	Name of Parts	Qty
25	KM485QB-03012	Valve stemguide	6
26	L375-01115	Bowl shape plug	2
27	GB894.1-86	Circlip 16	2
28	KM385-03205	Rockershaft	1
29	L375-03107	Bowl shape plug	3
30	L375-03202	Rockershaft rear seat	2
31	KM385T-03220	Intake valve rocker	3
32	L375-03204	Rockershaft spring	2
33	KM385T-03207	Rockershaft rear seat	1
34	D495QB-03110	Oil drainage plug	1
35	D495QB-01024	Bowl shape plug	1
36	GB898-88	Bolt M8 × 60	6
37	195-03014	Fuel injector fasten plate	3
38	4L22-03013	Air intake pipe gasket	3
39	L375-03106	Bowl shape plug Φ 25	5
40	4L22-03103	Intake valve seat	3
41	4L22-03005	Intake valve	3
42	4L22-03104	Exhaust valve seat	3
43	4L22-03004	Exhaust valve	3
44	L375-03011-1	Hoisting ring	1
46	KM385T-03102	Whirl-chamber splice block	3
47	GB5783-86	Bolt M8 × 25	3
48	L375-03010	Thromstat housing gasket	2
49	KM385-03101	Cylinder head	1

No	Parts No	Name of Parts	Qty
50	KM385BT-03401	Gasket	2
51	KM385BT-03402	Pressure reduction handle shaft bush	1
52	KM385BT-03407	Locating board	1
53	KM385BT-03403	Pressure reduction spring	1
54	GB3452.1-1992	O- ring 13.2 × 2.6	1
55	GB894.1-86	Circlip 14	2
56	KM385BT-03410	Pressure reduction handle weldment	1
57	GB119-86	PinB3 × 26	1
58	GB894.1-86	Circlip 15	2
59	KM385BT-03404	Adjust bolt for pressure reduction	1
60	KM385BT-03405	Pressure reduction shaft	1

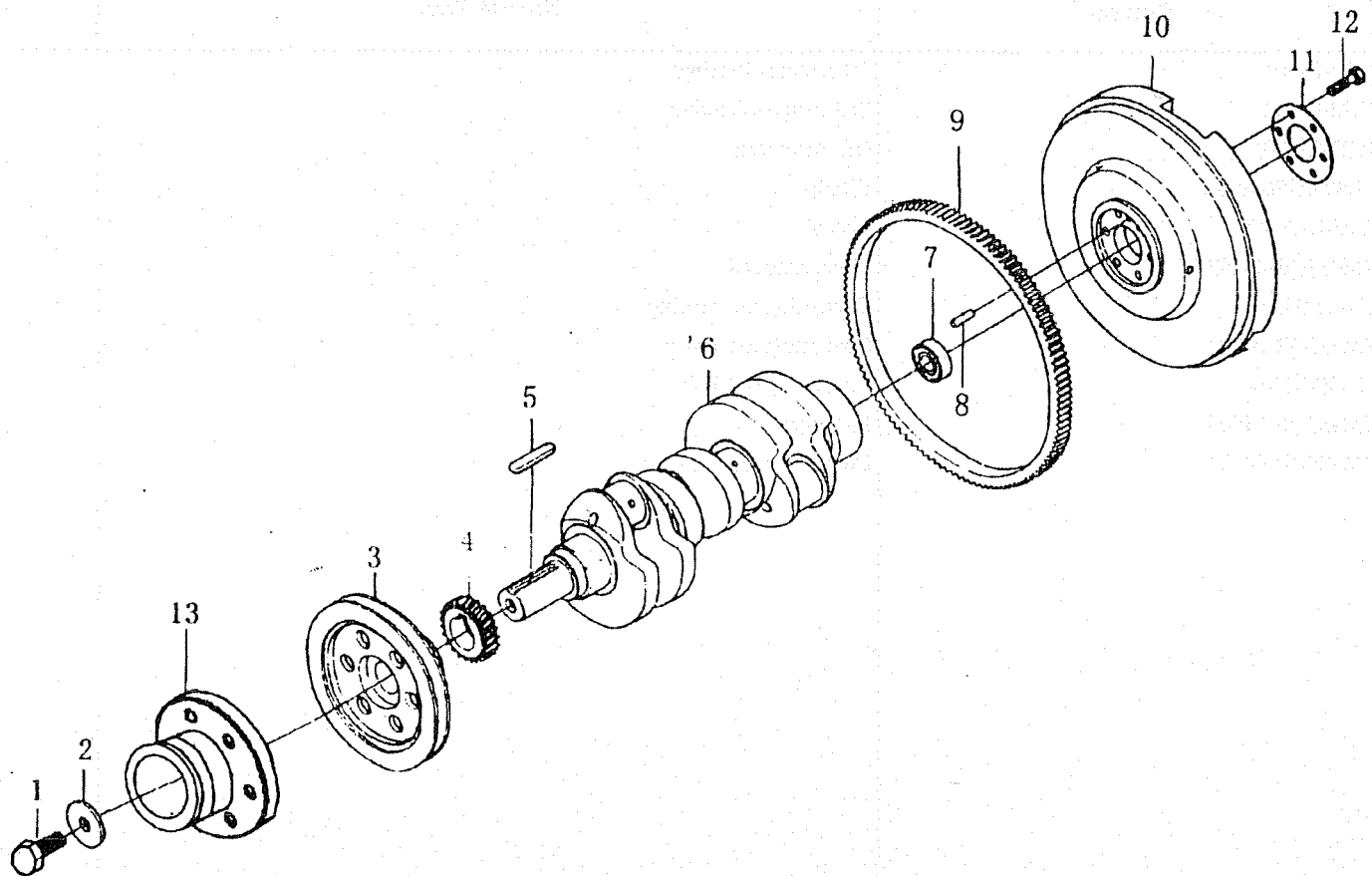
PISTON AND CONNENCTING ROD ASSY



Piston-connecting Rod Assy

No	Parts No	Name of Parts	Qty
1	4L22-04001	1st compression ring	1
2	4L22-04002	2nd compression ring	1
3	4L22-04100	Oil sraper ring	1
4	GB893.1-86 Φ 28	Circlip	2
5	KM385-04005	Piston	1
6	KM485QB-04202	Connecting rod	1
7	LL480-04003	Connecting rod bearing	2
8	KM485QB-04203	Connecting rod cover	1
9	LL480-04204	Connecting rod bolt	2
10	KM485QB-04004	Piston pin	1
11	KM485QB-04201	Connecting rod bushing	1

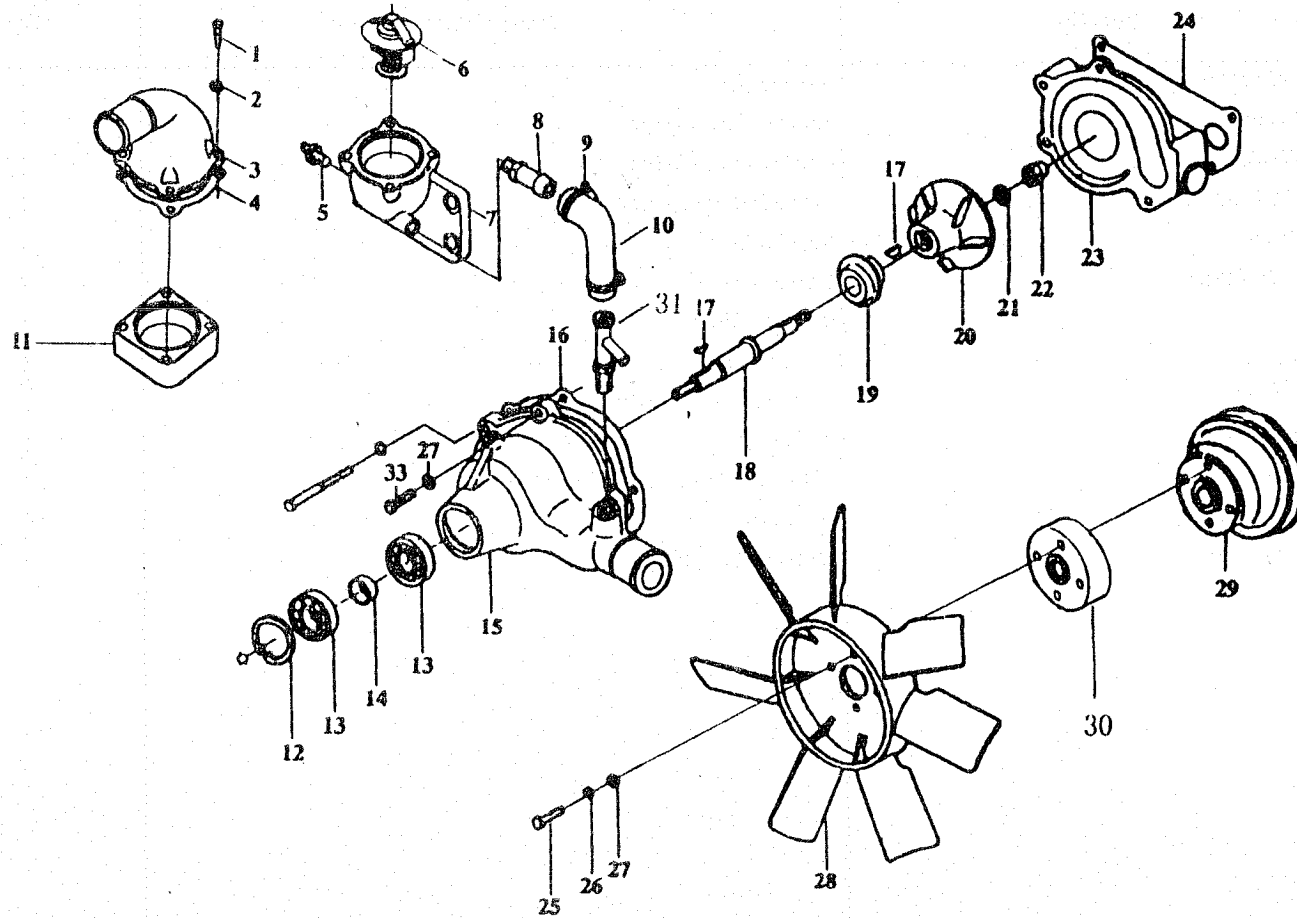
CRANKSHAFT AND FLYWHEEL ASSY



Crankshaft-fly wheel Assy

No	Parts No	Name of Parts	Qty
1	KM385T-05006	Starting claw	1
2	L375-05005	Starting claw 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	GB278-89	Bearing B60203	1
8	GB119-86	Pin B8 × 20	1
9	LL480-05102	Gear ring for fly wheel	1
10	KM385T -05101-4	Fly wheel	1
11	L375-05002	Fly wheel bolt backing plate	1
12	KM385T-05001	Fly wheel	6
13	KM385T-05008	Air pump belt pulley	1

COOLING SYSTEM ASSY

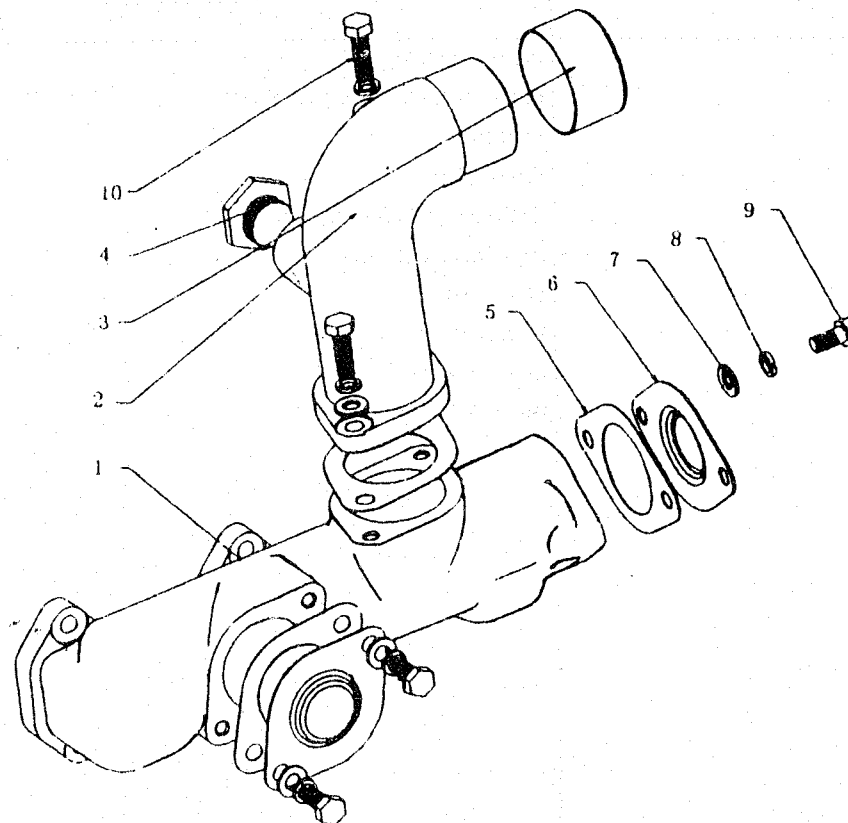


Cooling System Assy

No	Parts No	Name of Parts	Qty
1	GB5783-86	Bolt M6 $\times$ 60	4
2	GB93-87	Washer 6 100HV	4
3	LL380-06201-1	Thermostat cover	1
4	L375-06202	Thermostat cover gasket	1
5	L375-06206	Water temprature sensor	1
6	L375-06203	Thermostat	1
7	L375-06204	Thermostat housing	1
8	LL480-06303	Small circulating water pipe	2
9	ZBT32005.1-88	Clamp ϕ 26	2
10	LL380-06001	Hose pipe	1
11	KM385T-06208	Thermstat cover padding block	1
12	GB893.2-86	Washer	1
13	GB278-89	Ball bearing E60203	2
14	L375-06104	Bearing spacer	1
15	LL480-06103-1	Water pump housing	1
16	L375-06107	Water pump gasket	1
17	GB1099-79	Wood ruff key 4 $\times$ 6.5 $\times$ 16	1
18	LL480-06106	Water pump shaft	1
19	C-15	Ceramic graphilte seal type C-15	1
20	LL480-06105	Water pump impeller	1
21	GB93-87	Washer8	1
22		Stopper	1
23	L375-06108	Water pump rear cover	1
24	L375-01006	Water pump rear cover gasket	1

No	Parts No	Name of Parts	Qty
25	GB5782-86	Bolt M8 × 4.5-8.8	4
26	GB848-85	Washer 8-100HV	4
27	GB93-87	Washer 8	4
28	L475-06300	Fan	1
29	LL480-06102	Water pump belt pulley	1
30	4L22-06113	Fan padding block	1
31	L375Y3-14-06100	Triply joint	1

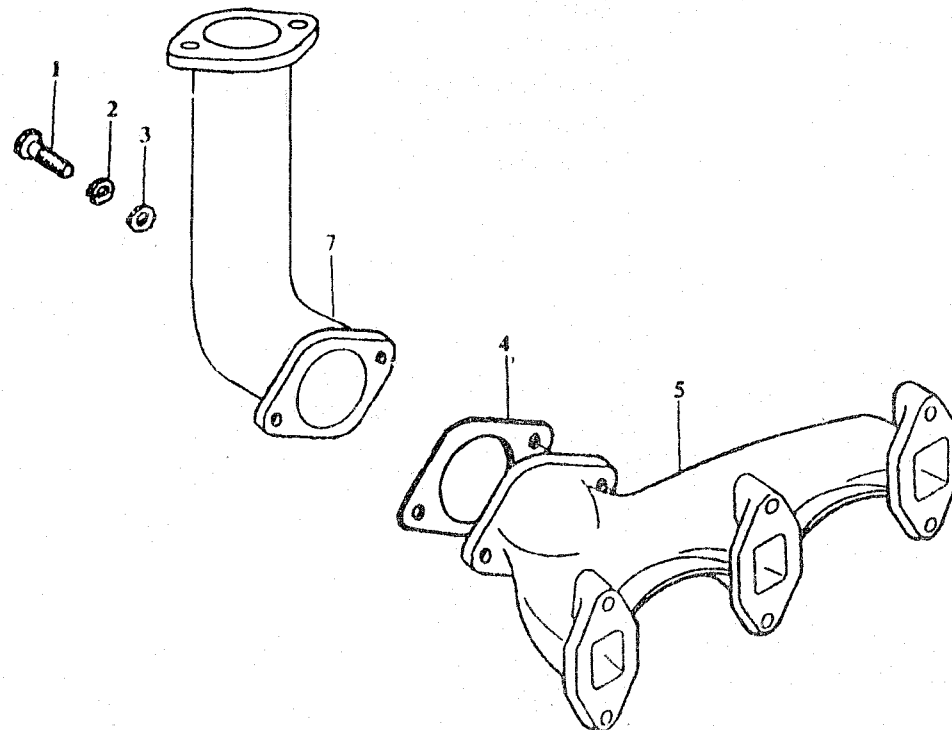
INTAKE MANIFOLD ASSY



Intake Manifold Assy

No	Parts No	Name of Parts	Qty
1	KM385-07001	Intake manifold	1
2	KM385T-07004	Intake manifold cover joint pipe	1
3	L375-07005	Joint cover	1
4	KM385T-07006	Screw plug	1
5	L375Y3-07003	Intake manifold cover gasket	3
6	L375Y3-07002	Intake manifold cover	3
7	GB97.1-85	Washer 10	6
8	GB93-87	Washer 10	6
9	GB5783-86	Bolt M8 × 25	4
10	GB5783-86	Bolt M10 × 30	2

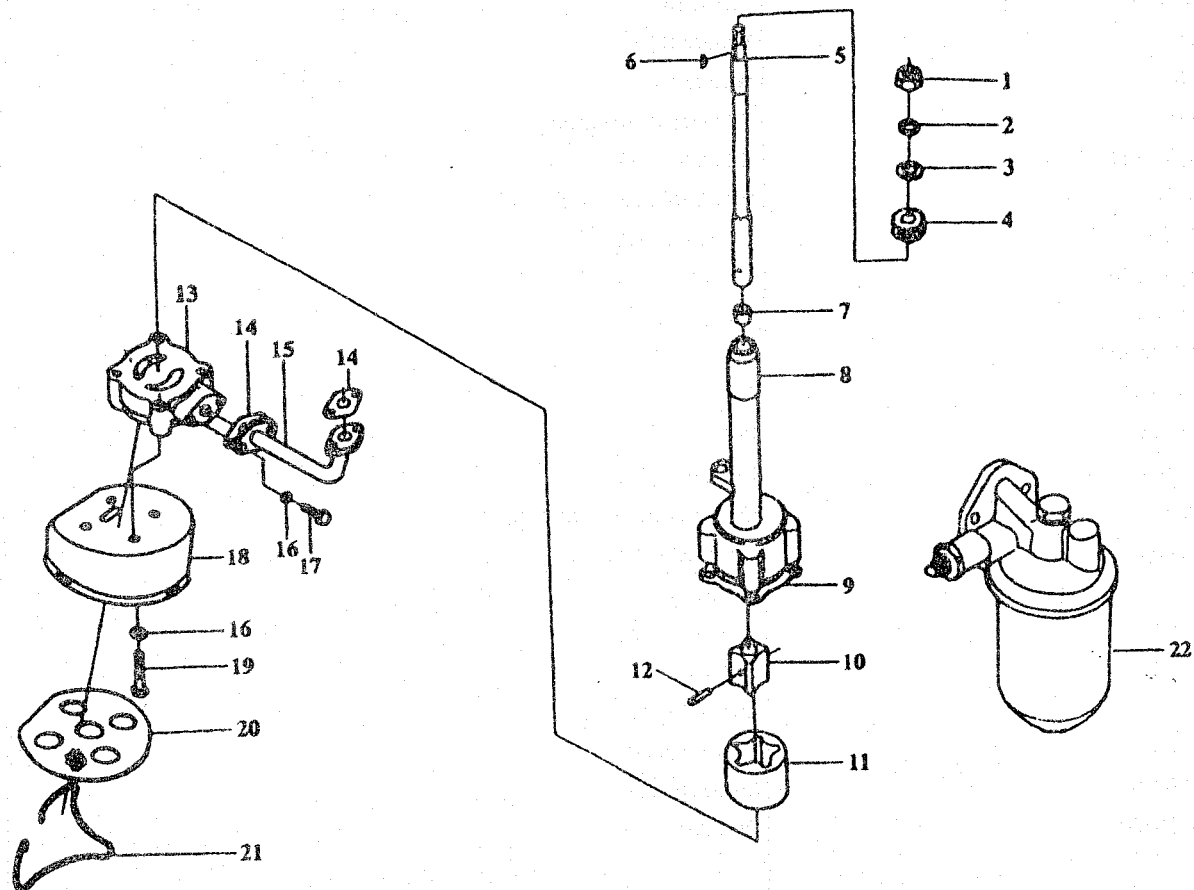
EXHAUST MANIFOLD ASSY



Exhaust Manifold Assy

No	Parts No	Name of Parts	Qty
1	GB5783-86	Bolt M10 × 30	2
2	GB93-87	Washer 10	2
3	GB97.1-85	Washer 10	2
4	LL480-08002	Exhaust manifold gasket	2
5	KM385-08001	Exhaust manifold	1
6	KM385T-08003	Muffler joint	1

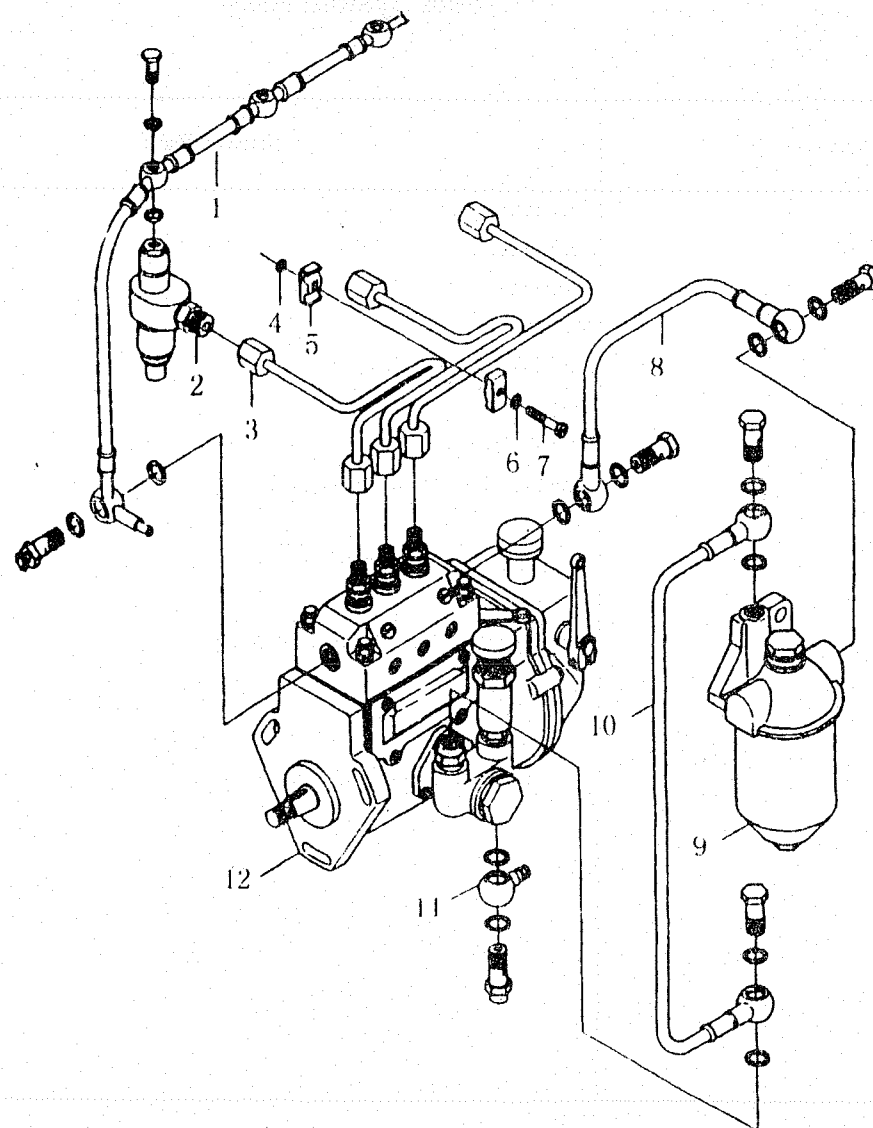
LUBRICATING SYSTEM ASSY



Lubricating System Assy

No	Parts No	Name of Parts	Qty
1	GB6170-86	Nut M 10	1
2	GB93-87	Washer 10	1
3	GB97.1-85	Washer 10	1
4	LL480-09101	Oil pump driven gear	1
5	KM485QB-09111-2	Oil pump shaft	1
6	GB1098-79	Woodruff key $3 \times 5 \times 13$	2
7	LL480-09102	Oil pump bush	1
8	KM485QB-09103-2	Oil pump body	2
9	LL480-09106	Oil pump gasket	6
10	KM485QB-09104	Inner rotor	1
11	KM485QB-09105	Outer rotor	1
12	LL480-09113	Pin	1
13	LL480-09107	Oil pump cover	1
14	L375-09001	Oil outlet pipe flange gasket	1
15	LL480-09400-1	Oil outlet pipe unit	1
16	GB93-87	Washer 8	1
17	GB5783-86	Bolt M8 $\times$ 20	1
18	LL480-09200	Weldment	1
19	GB5782-86	Bolt M8 $\times$ 45	4
20	LL480-09003	Gauze support	4
21	KM385T-09300	Gauze strainer	1
22	KM385T-09300	Oil filter	1

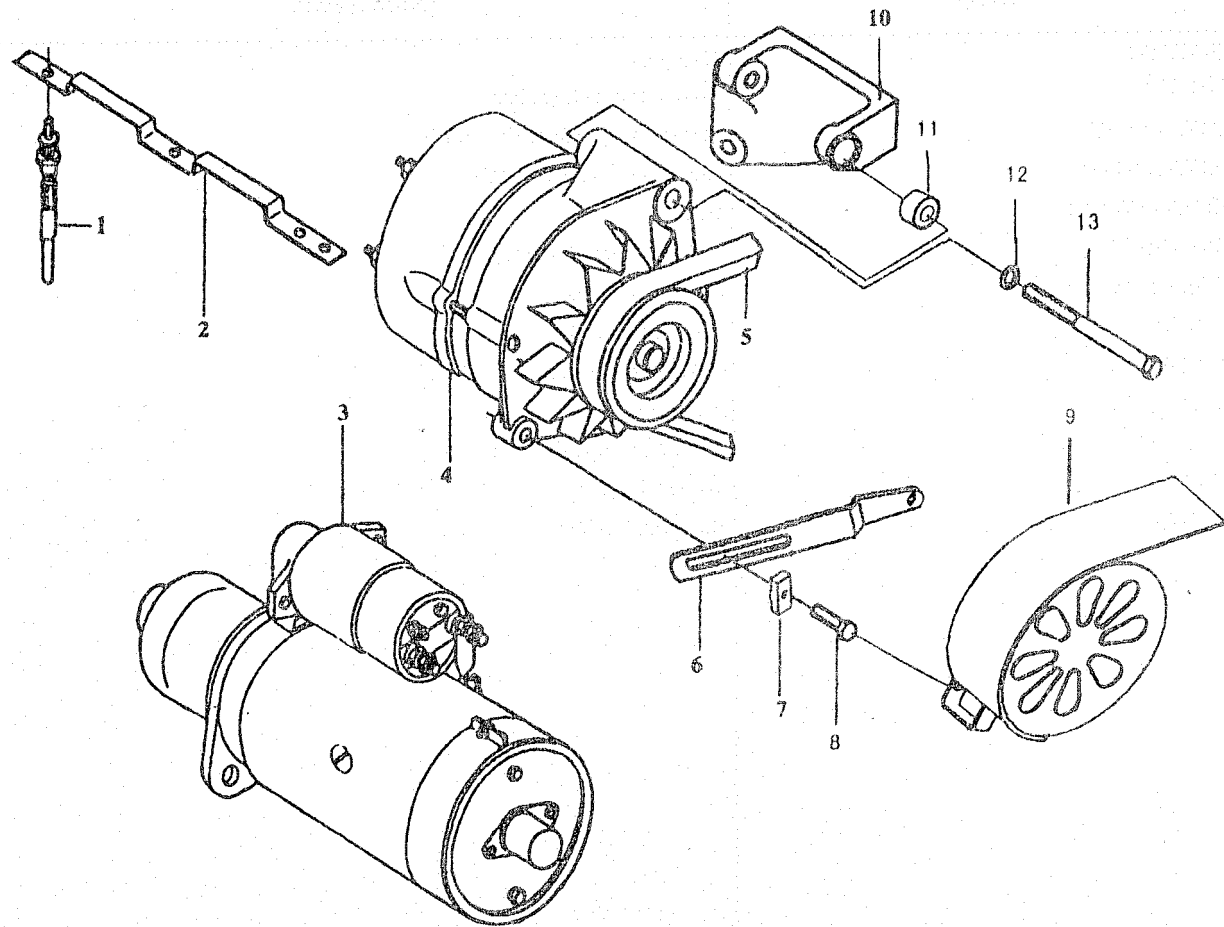
FUEL SYSTEM ASSY



Fuel System Assy

No	Parts No	Name of Parts	Qty
1	KM385T-10400	Fuel return pipe	1
2	KM385TA-10300	Fuel injector	3
3	KM385T-10200	Fuel pipe	1
4	GB6170-86	Nut M6	1
5	D495QB-10600	Fuel injection pipe clamp	2
6	GB93-87	Washer 6	1
7	GB65-85	Screw M6 × 30	1
8	LL380-10600	Line from filter to injection pump	1
9	KM385T-10500	Fuel filter	1
10	L375-10700	Line from feed pump to filter	1
11	L375-10801B	Pipe joint	1
12	KM385T-10100 (3QF99BW)	Three cylinder I type injection pump assy	1

ELECTRIC SYSTEM ASSY



Electric System Assy

No	Parts No	Name of Parts	Qty
1	L375-12200-1	Heat plug	3
2	L375-12001	Current conducting plate	1
3	KM385T-12300C	Starting motor unit(12V, 2kW)	1
4	KM385T-12100-1C	Alternator (350W 14V)	1
5	GB12732-1996-1000	Belt	1
6	KM385T-01029	Alternator adjustable support	1
7	D495QB-01038	Compression plate	1
8	GB5781-86	Bolt M8 × 100	1
9	KM385T-12110	Alternator housing	1
10	KM385T-01028	Alternator fasten support	1
11	L375-01033-1	Alternator support bush	1
12	GB848-85	Washer 8	1
13	GB5782-86	Bolt M8 × 100	1

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KM385TA-35600