



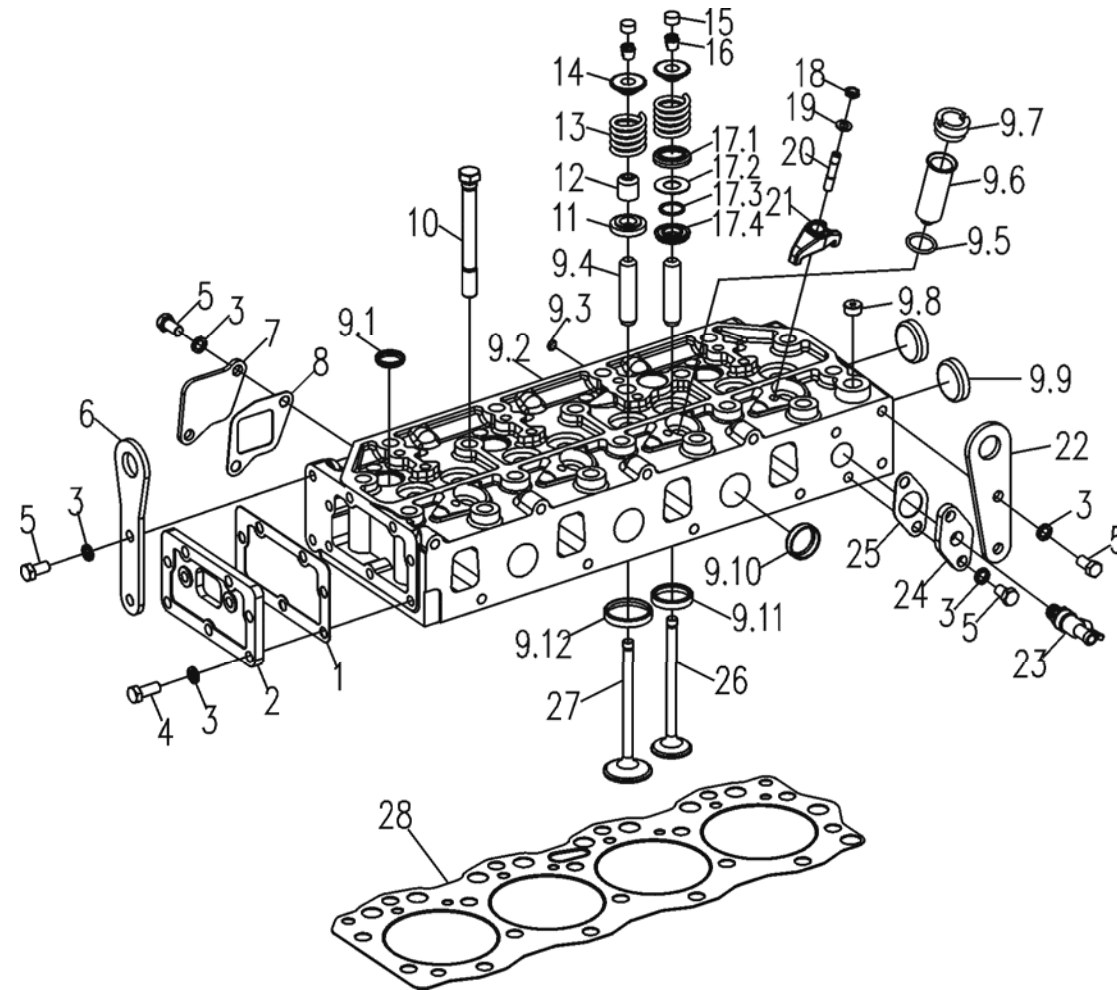
YTO LR 4105, 4108 & 4110 ENGINE PARTS MANUAL

Fitted to: DFS 554
DFS 654
DFS 854

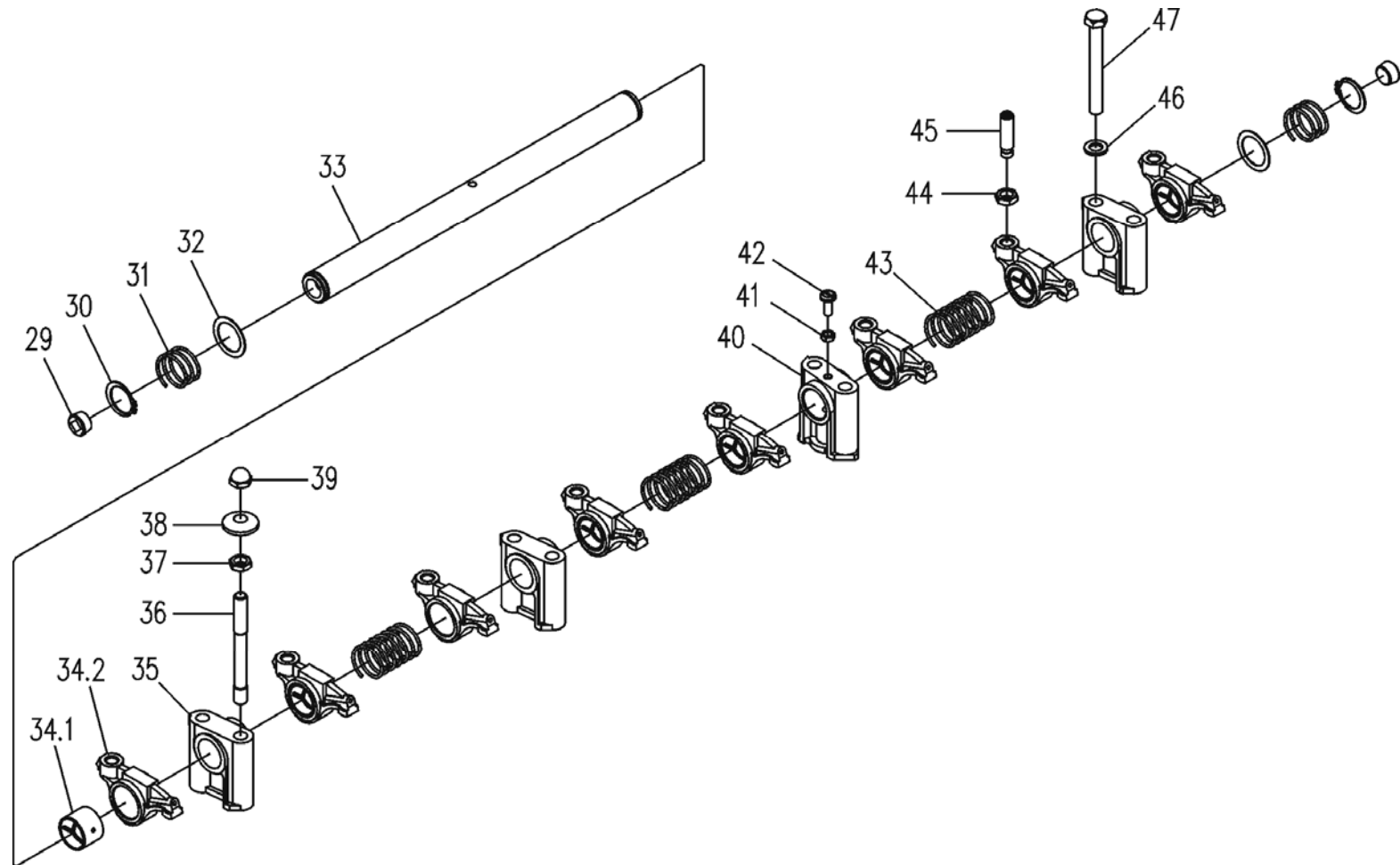
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01 Cylinder Head Assembly



01 Cylinder Head Assembly



01 Cylinder Head Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Cylinder head assembly	4RTF.010000	1	
	Cylinder head with valve assembly	L4R0101HJ _V ^x	1	
1	Gasket, Cap	R010024	1	
2	Cap, front water outlet hole	R010023	1	
3	Spring washer 10	GB/T93-1987	15	
4	Bolt M10×25	GB/T5782-2000	7	
5	Bolt M10×20	GB/T5782-2000	8	
6	Front hoisting ear	6RT8.010009-FE	1	
7	Cap, side water outlet hole	RT010021FE	1	
8	Gasket, thermostat	6RTIII.530004FE	1	
9	Cylinder head mechanical	4RB.010100	1	
9.1	assembly	YTQ031.2-1992	4	
9.2	Bowl plug 28	4RB.010101	1	
9.3	Cylinder head	R010107	4	
9.4	Bowl plug 10	R010104	8	
9.5	Valve guide	YTQ020.2-1992	4	
9.6	O-sealing ring 30×3.1	LR010109	4	
9.7	Sleeve, fuel injector	LR010111	4	
9.8	Injector stud bolt	YTQ021.1-1992	1	
9.9	Screw plug Z1/2'	R010105	2	
9.10	Bowl plug 42	R010106	3	
9.11	Bowl plug 35	R010103	4	

01 Cylinder Head Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
9.12	Seat ring, inlet valve	R010102Y	4	
10	Bolt, cylinder head	RHZL.010007	18	
11	Spacer, inlet valve spring	R010015Y	4	
12	Oil seal, valve	R010019Y	4	
13	Valve spring	LR010003Y	8	
14	Retainer, valve spring	R010004Y	8	
15	Valve cap	R010006	8	
16	Valve collet	R010005	16	
17	Valve rotocap assembly	R010300Y	4	
17.1	Upper seat, valve rotocap	R010301Y	4	
17.2	Thrust washer, valve rotocap spring	R010302	4	
17.3	Spring, valve rotocap	R010304	4	
17.4	Lower seat, valve rotocap	R010303	4	
18	Nut M8	GB/T6175-2000	4	
19	Spherical washer 8	GB849-1988	4	
20	Stud, clamp plate of injector	R010018	4	
21	Clamp plate, injector	R010008	4	
22	Hoisting ear	R010009	1	
23	Heater switch	WN4003-F-100	1	
24	Install plate, water valve of heater	1002/1202.81A.101	1	
25	Gadket, water return adapter	R010013	1	
26	Exhaust valve	R010002	4	

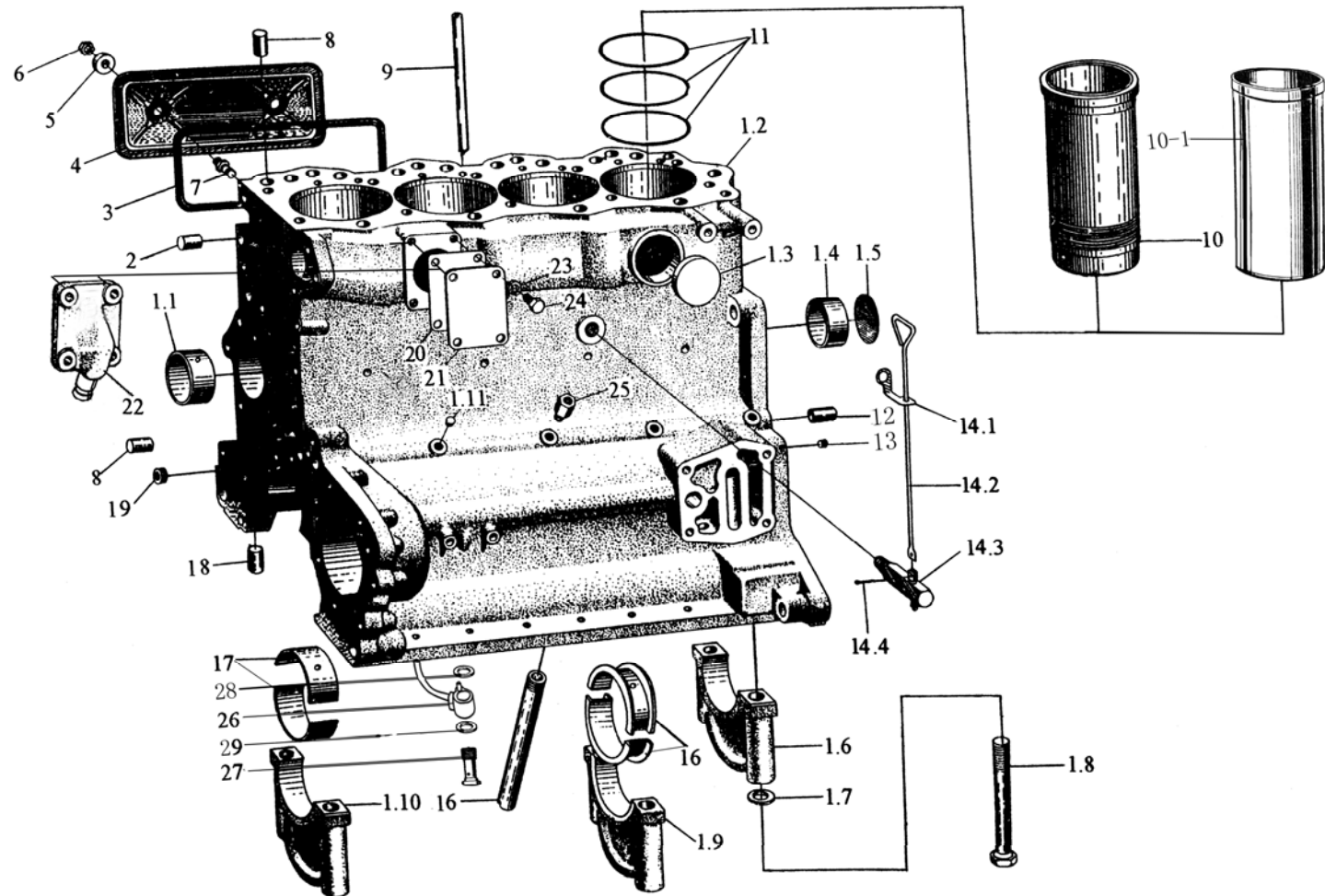
01 Cylinder Head Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
27	R010001Y	Inlet valve	4	
28	RW41100100.11	Gasket,Cylinder head	1	
29	R010209	Screw plug NPT3/8	2	
30	GB894.1-1986	Retaining ring 25	2	
31	R010203	Spring,rocker shaft	2	
32	R010204	end	2	
33	R010201	Washer,rocker shaft	1	
34	R010250	Rocker shaft	8	
34.1	R010252A	Rocker shaft assembly	8	
34.2	R010251	Bush,rocker arm	8	
35	R010206	Rocker arm	3	
36	R010016	Seat,rocker shaft	4	
37	GB/T6175-2000	Stud,rocker shaft seat	4	
38	R010017	Nut M10	4	
39	GB/T923-1988	Rubber sealing ring	4	
40	R010205	Acorn nut M10	1	
41	GB/T6175-2000	Seat,rocker	4	
42	GB/T75-1985	shaft(feeding oil)	4	
43	R010202	Nut M6	3	
44	GB/T6176-2000	Nut M6×16	8	
45	R010208	Spring,rocker shaft	8	
46	GB/T848-1987	Nut M10×1	4	
47	GB/T5782-2000	Adjusting screw	4	

01 Cylinder Head Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
18	Retaining ring 25	GB 894-76	2	
19	Bush,rocker arm	R010252A	8	
20	Valve cap	R010006	8	
21	Valve collet	R010005	16	
22	Retainer, valve spring	R010004Y	8	
23	Oil hood, valve	R010019Y	4	
24	Upper seat, valve rotocap	R010301Y	4	
25	Thrust washer, valve rotocap	R010302	4	
26	spring	R010304	4	
27	Spring, valve rotocap	R010303	4	
28	Lower seat, valve rotocap	R010015Y	4	
29	Spacer, inlet valve spring	R010251	8	
30	Rocker arm	R010003Y	8	
31	Valve spring	R010007A-1	18	
32	Bolt, cylinder head	R010012	18	
33	Washer, cylinder head bolt	GB 52-76-Zn • D	4	
34	Nut M8	GB 849-76-Zn • D	4	
35	Spherical washer 8	R010018	4	
36	Stud, clamp plate	R010008	4	
37	Clamp plate, injector	RT010021	1	
38	Cover, cap, side water outlet	6RTIII530004	1	
39	Gasket, thermostat	YTQ 021.1-87	1	
	Screw plug 1/2"			

02 Cylinder Block Assembly



02 Cylinder Block Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Cylinder block assembly	4RAT • 020000	1	
1	Cylinder block mechanical assembly	4RAT020100	1	
	Cylinder block mechanical assembly	4RAT3 • 020100	1	
1.1	Camshaft front bearing	R020106	1	
1.2-1	Cylinder block	4RBAQ 020100-1FE	1	
1.2-2	Cylinder block	4RBAT.020100-1FEZ	1	
1.2-3	Cylinder block	RW4110Q.020101	1	
1.2-4	Cylinder block	4RAT.020100	1	
1.2-5	Cylinder block	4RAQ.020100	1	
1.3	Bowl plug ϕ 50	R020108	1	
1.4	Camshaft bearing	R020107	4	
1.5	Plug 60	Q/SB144-64	1	
1.6	Cap, rear main bearing	LR020111	1	
1.7	Washer, main bearing bolt	R020105	10	
1.8	Bolt, main bearing	R020104	10	
1.9	Cap, locating main bearing	LR020103	1	
1.10	Main bearing cap	LR020102	3	
1.11	Screw plug Z 1/8"	YTQ 021.1-87	4	
2	Dowel, cylinder block upper front face	R020023	1	
3	Gasket, push rod chamber cover	4R020009	1	
4	Cover, front push rod chamber	4R020008A	1	
5	Sealing washer	R010017	4	
6	Acorn Nut M10	GB/T 923-2000	4	

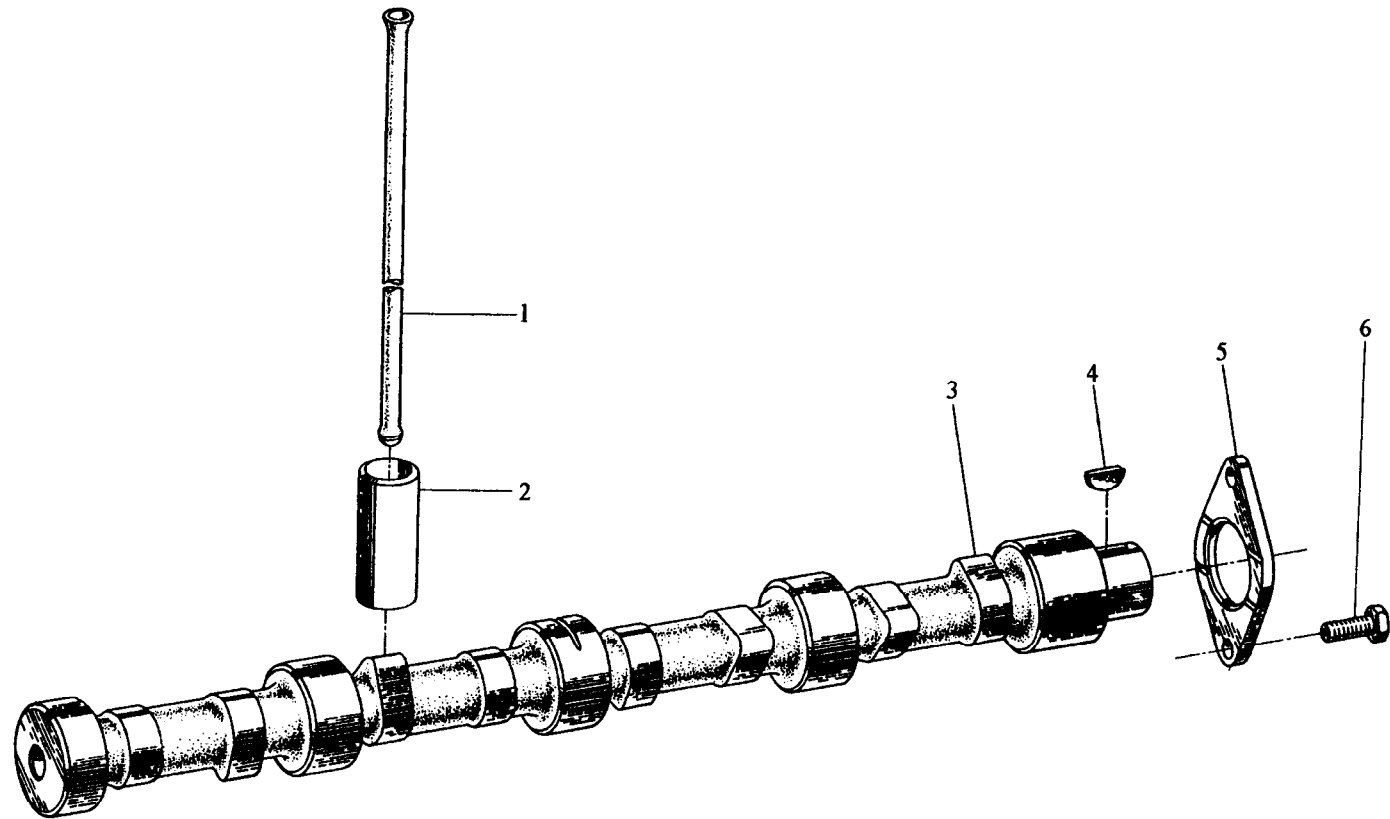
02 Cylinder Block Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
7	Stud,push rod chamber cover	R020011	4	
8	Dowel,cylinder block top face	R020021	3	
9	Drain pipe assembly,crankcase ventilation	LR020300	1	
10-1	Cylinder liner	RAZ1.020001	4	
10-2	Cylinder liner	RBA.020001	4	
10-3	Cylinder liner	RW110.020001	4	
10-4	Cylinder liner	RA.020001-1S	4	
11	Sealing ring,cylinder liner	RA020002/3	12	
12	Hollow dowel,cylinder block rear face	R020015	2	
13	Nozzle,rear oil sealing	R020004	1	
14	Drain cock assy,radiator	LR020400	1	
14.1	Clamp	6RQ2.020034-1	1	
14.2	Handle	13C-05031	1	
14.3	Water Valve	1305C-010	1	
14.4	Cotter pin 2×20	GB 91-76	1	
15	Thrust shell(top/bottom),main bearing	LR020043/44	1set	
17	Bottom shell,main bearing	R020041/42	4sets	
18	Dowel,cylinder block bottom face	R020027	2	
19	Screw plug Z 3/8 "	LR010209	2	
20	Casket,feeding water adaptor	R020017	1	
21	Cover plate	6RTIII020028	1	
22	Feeding water adaptor,oil cooler	4RT12.020200FE-1	1	

02 Cylinder Block Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
23	Spring washer 10	GB 93-76	4	
24	Bolt M10×25	GB 21-76-Zn • D	4	
25	Connector,oil pressure sensor	6RQ2020031	1	
26	Piston Cooling Nozzle	RW020200	4	
27	Nozzle bolt	RW020003	4	
28	Gasket	6RAZL.020006	4	
29	Spring washer	B II -049	4	

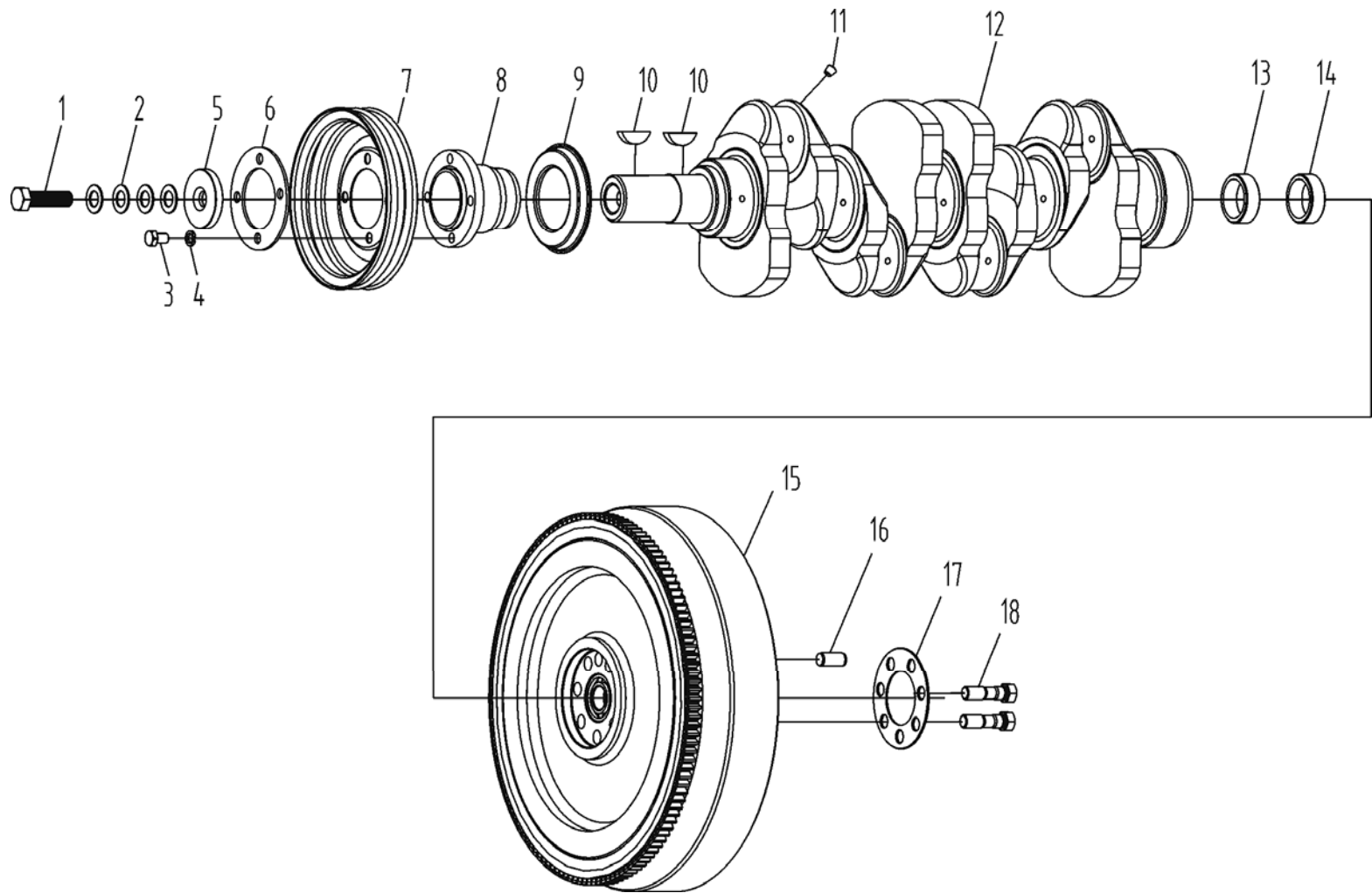
03 Camshaft Assembly



03 Camshaft Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Camshaft assy	4R030000Y	1	
1	Push rod	R030003	8	
2	Tappet	R030002	8	
3	Camshaft	4R030001YA	1	
		LR4EGR3.030001	1	
4	Semi-circular key 6×22	GB 1099-79	1	
5	Thrust,camshaft	R030004	1	
6	Bolt M8×20-ZnD	GB /T5783-2000	2	

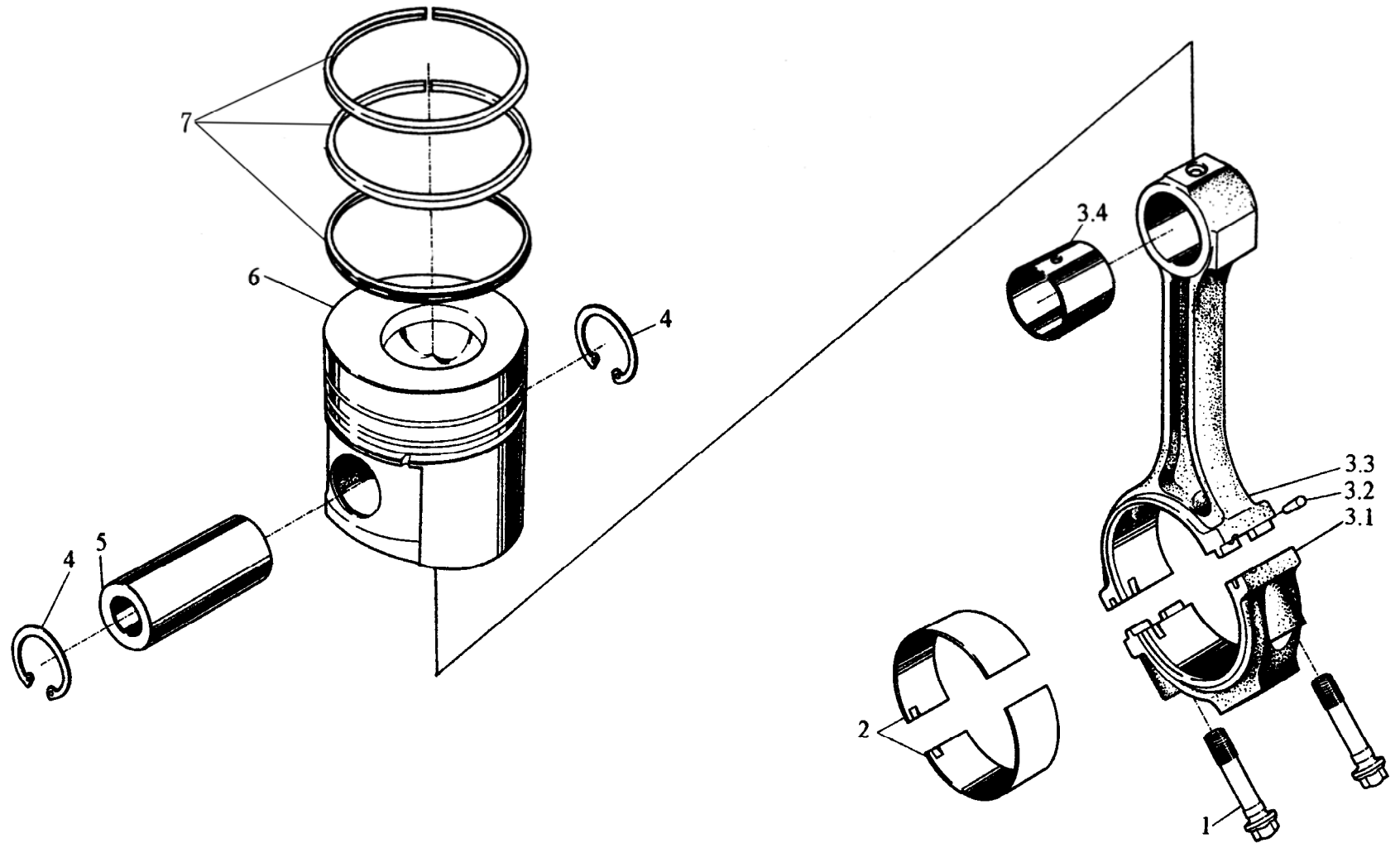
04 Crankshaft and Flywheel Assembly



04 Crankshaft and Flywheel Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Crankshaft and flywheel assembly	4RTF.040000	1	
1	Bolt M16×55×1.5	GB21-76-ZnD	1	
2	Waved spring washer 16	GB/T955-87	4	
3	Bolt M10×18	GB/T5783-2000-10.9	4	
4	Spring washer 10	GB/T93-1987	4	
5	Plate, Crankshaft jaw	L040007	1	
6	Plate,crankshaft pulley	R040006	1	
7	Crankshaft pulley	4RG1.040003-1	1	
8	Hub ,crankshaft pulley	R040004(I)	1	
9	Dust hood,pulley	R040012	1	
10	Semi-circular10×38	GB1099-72	2	
11-2	Screw plug NPT1×8	LR020109	4	
11-1	Crankshaft	L4R040301A	1	
12	Crankshaft	4RC.040001	1	
13	Retaining ring	4RTF.040010	1	
14	Bearing	GB/T276-1994	1	
15	Flywheel assy	4RTF.040100-1	1	
16	Pin 14ga×30	GB/T119-76	1	
17	Washer,flywheel	R040005	1	
18	Flywheel bolt	LR040021	7	

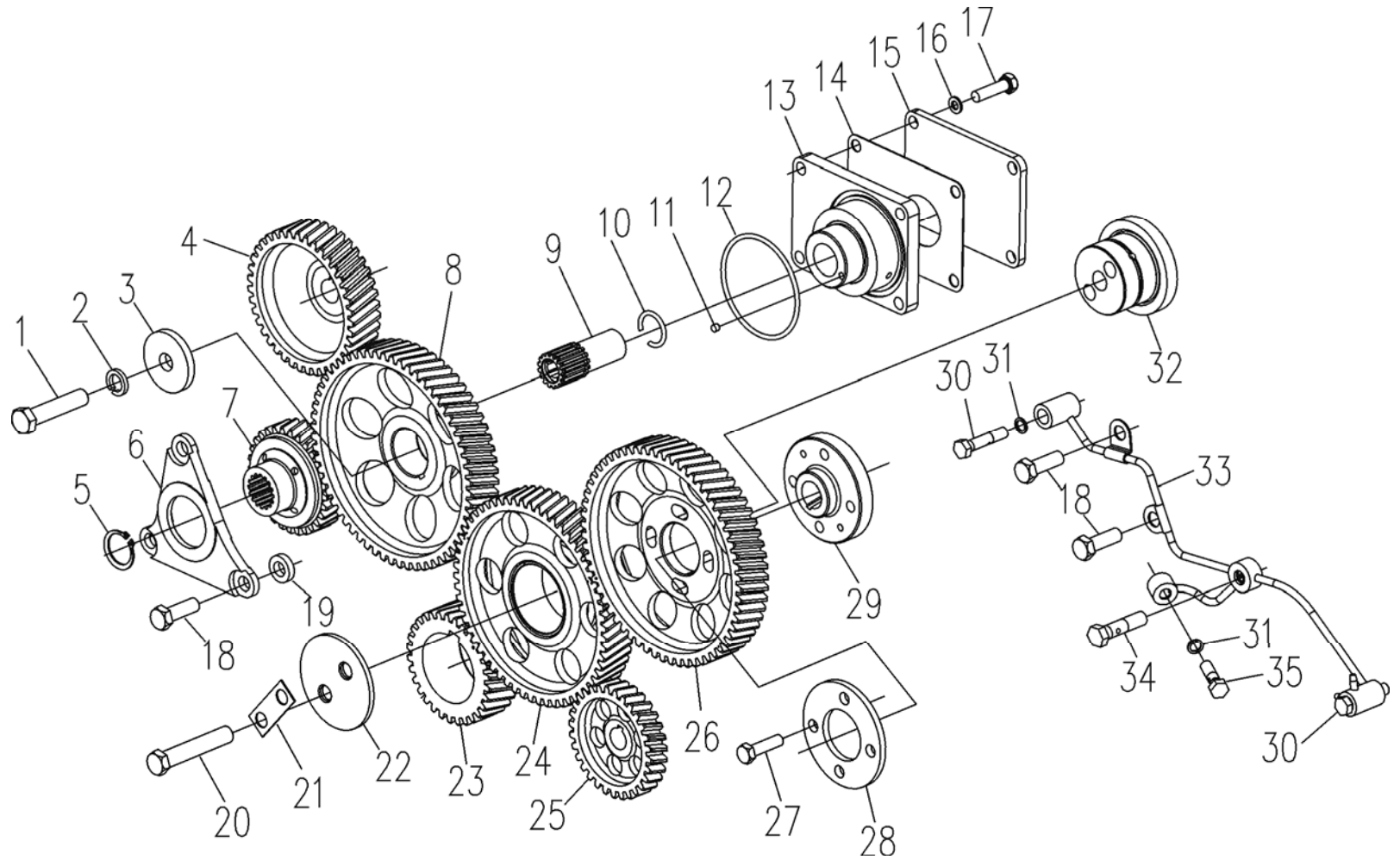
05 Piston and Conne Assembly



05 Piston and Conne Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Piston and connecting rod assembly	RA050000	1	
1	Bolt,connecting rod	RA050104	8	
2	Shell,connecting rod	RZ050005	8	
3	Connecting rod mechanical	RA050100	4	
3.1	assembly	RA050102	4	
3.2	Cap,connecting rod	LR050105	4	
3.3	Dowel	RA050101	4	
3.4	Body,connecting rod	R050103A	4	
4	Bush,connecting rod	GB 893-76	8	
5	Retaining ring 36	RA050004	4	
6-1	Piston pin	RA050001F	4	
6-2	Piston	A5.050001	4	
6-3	Piston	B3.050001	4	
6-4	Piston	B5.050001	4	
6-5	Piston	LR110.050001A	4	
7-1	Piston	RA 050002/3/0200	4	
7-2	Piston Wreath	RAZL 050002/3/0200	4	
7-3	Piston Wreath	RB 050002-1/3-1/0200-1	4	
7-4	Piston Wreath	LR110 050002/3/0200	4	
7-5	Piston Wreath	4B3L 050002/3/0200	4	
	Piston Wreath			

06 Gear Train Assembly



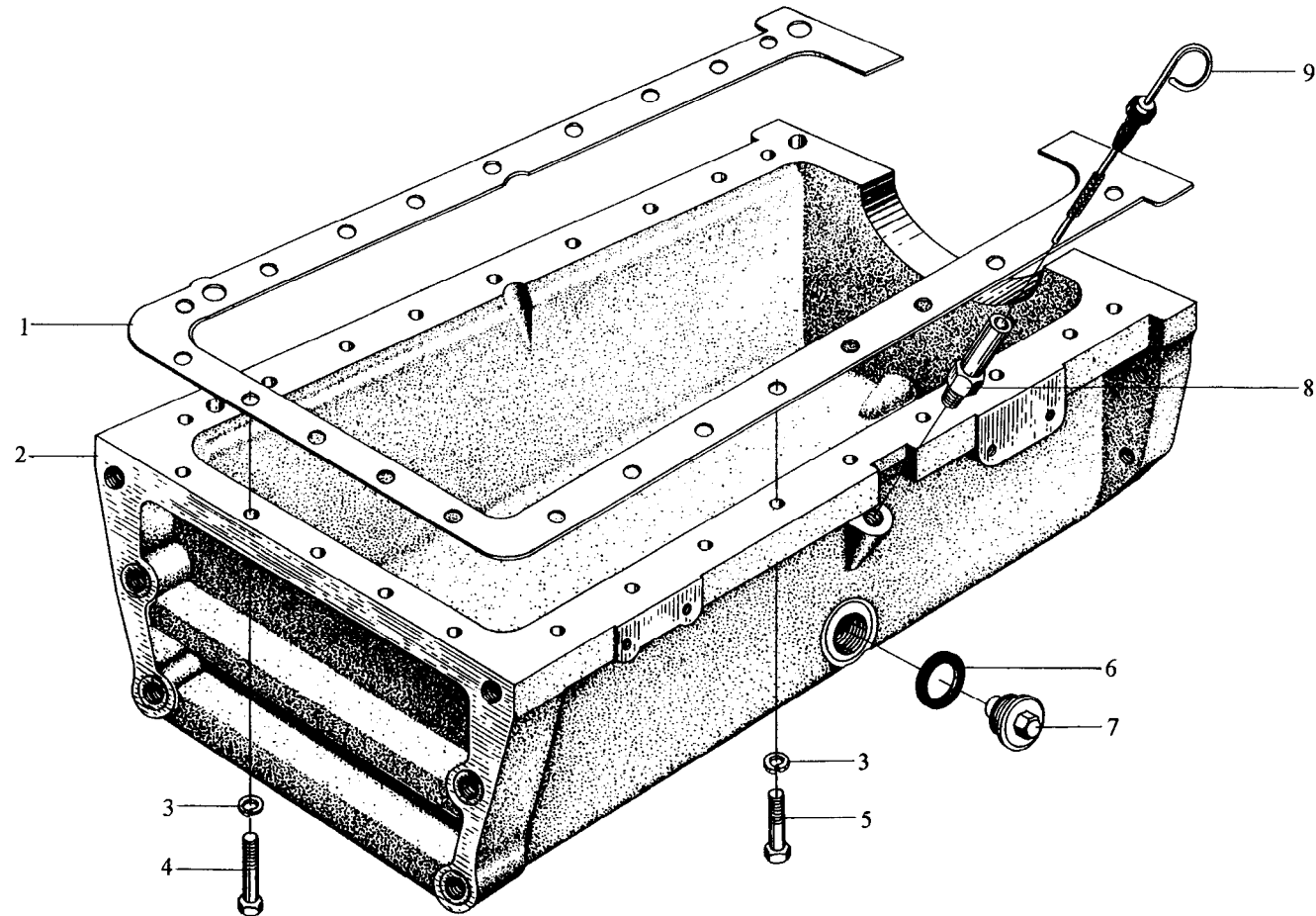
06 Gear Train Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Gear train assembly	RT060000-1	1	
1	Bolt M12×55-Zn.D	GB22-76-8.8	1	
2	Washer 12	GB93-76	1	
3	Retaining ring, camshaft gear	R060004	1	
4	Air compressor gear	R060021A	1	
5	Retaining ring 25	GB/T894-1976	1	
6	Thrust plate,hydraulic pump gear	RT060026-1	1	
7	Hydraulic pump gear assy	RT061100	1	
8	Camshaft gear	R060003A	1	
9	Driving splined sleeve,hydraulic pump	RT060025A	1	
10	Retaining ring 25	GB/T895-1976	1	
11	Plug	RT060027	1	
12	Sealing ring	RT060019-1	1	
13	Driving gear shaft,hydraulic pump	LRT060024-2A	1	
14	Gasket,hydraulic pump	RT060029	1	
15	Cover plate	RT060028	1	
16	Washer 8	GB/T97-1976	4	
17	Bolt M8×30-Zn.D	GB22-76-ZnD	4	
18	Bolt M10×30-Zn.D	GB21-76	5	
19	Thrust plate washer,hydraulic pump gear	RT060032	3	
20	Bolt M10×65-Zn.D	GB22-76-88	2	
21	Locking washer	R060031-1	1	

06 Gear Train Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
22	Thrust plate,idle gear	R060011	1	
23	Crankshaft gear	LR060001	1	
24	Idle gear assembly	R060100	1	
25	Driving gear,oil pump	R060002A-3	1	
26	Injection pump gear	LR060005	1	
27	Bolt M8×30-Zn.D	GB22-76.8.8	4	
28	Retaining plate,injection pump gear	LR060007	1	
29	Hub,injection pump gear	LR060006	1	
30	Screw,lubrication oil passage	R060023-1	2	
31	Washer 8	GB97-76	3	
32	Shaft,idle gear	R060009	1	
33	Oil pipe assy,timing gear	RT060200	1	
34	Screw,lubrication oil passage	R060012	1	
35	Screw,lubrication oil passage	RT060022	1	

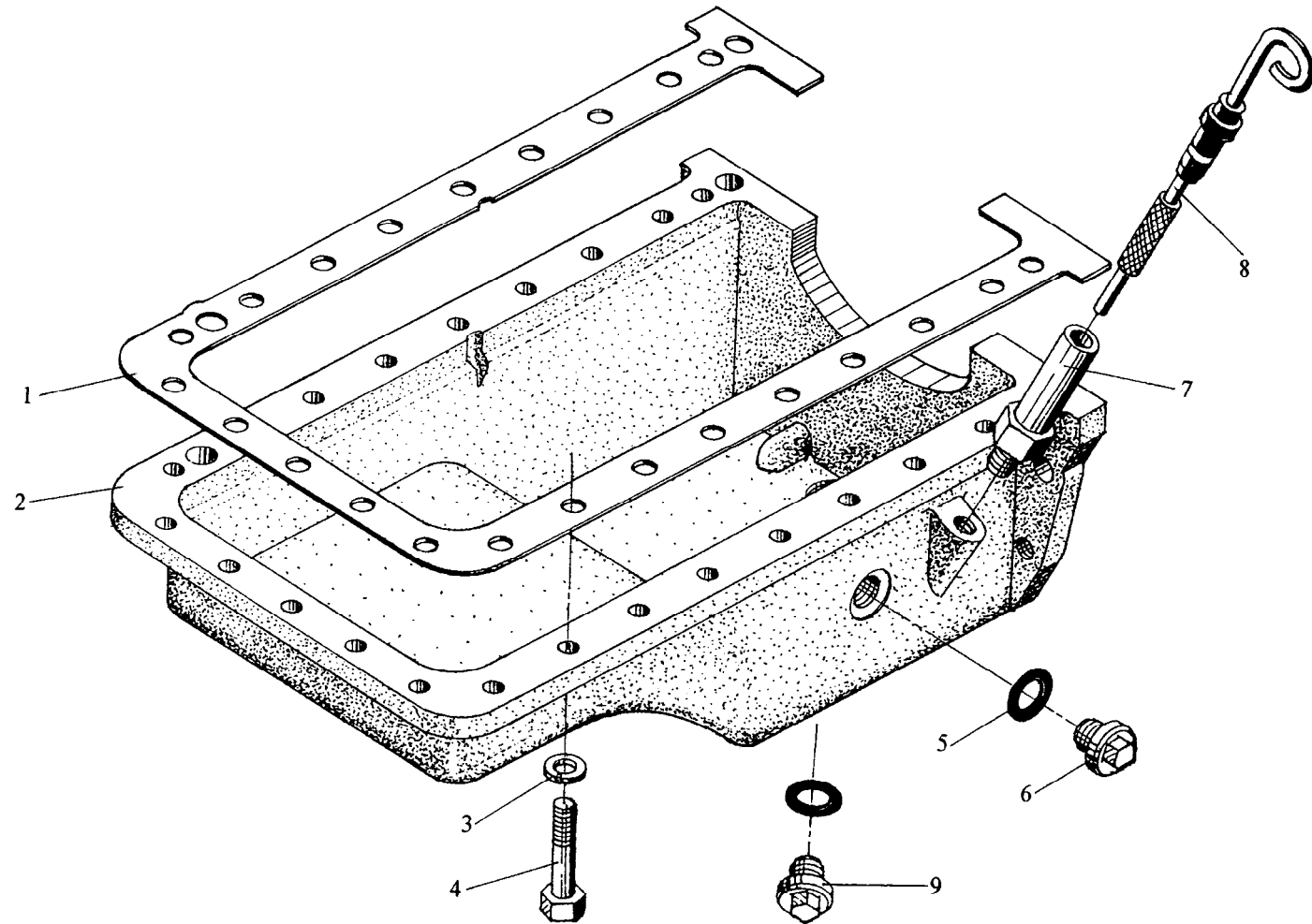
07 Sump Assembly (I)



07 Sump Assembly (I)

No.	Part Name	Drawing No.	QTY.	Remarks
	Sump assembly	4RTF070000-3	1	
	Sump assembly	4RT7-070000	1	
1	Gasket,sump	4RG1-070004	1	
2	Sump	4RTF-070001-3FE	1	
	Sump	4RT7-070001-1A	1	
3	Spring washer 10	GB 93-76	23	
4	Bolt M10×45	GB 22-76-8-8-Zn-D	5	
5	Bolt M10×40	GB 22-76-8-8-Zn-D	18	
6	O-seal ring 35×3.1	YTQ 020.2-86	1	
7	Oil drain plug assy	6RQJ-070100	1	
8	Sleeve,dipstick	6RQ-070024	1	
9	Dipstick assembly	4RTF-070200-1	1	

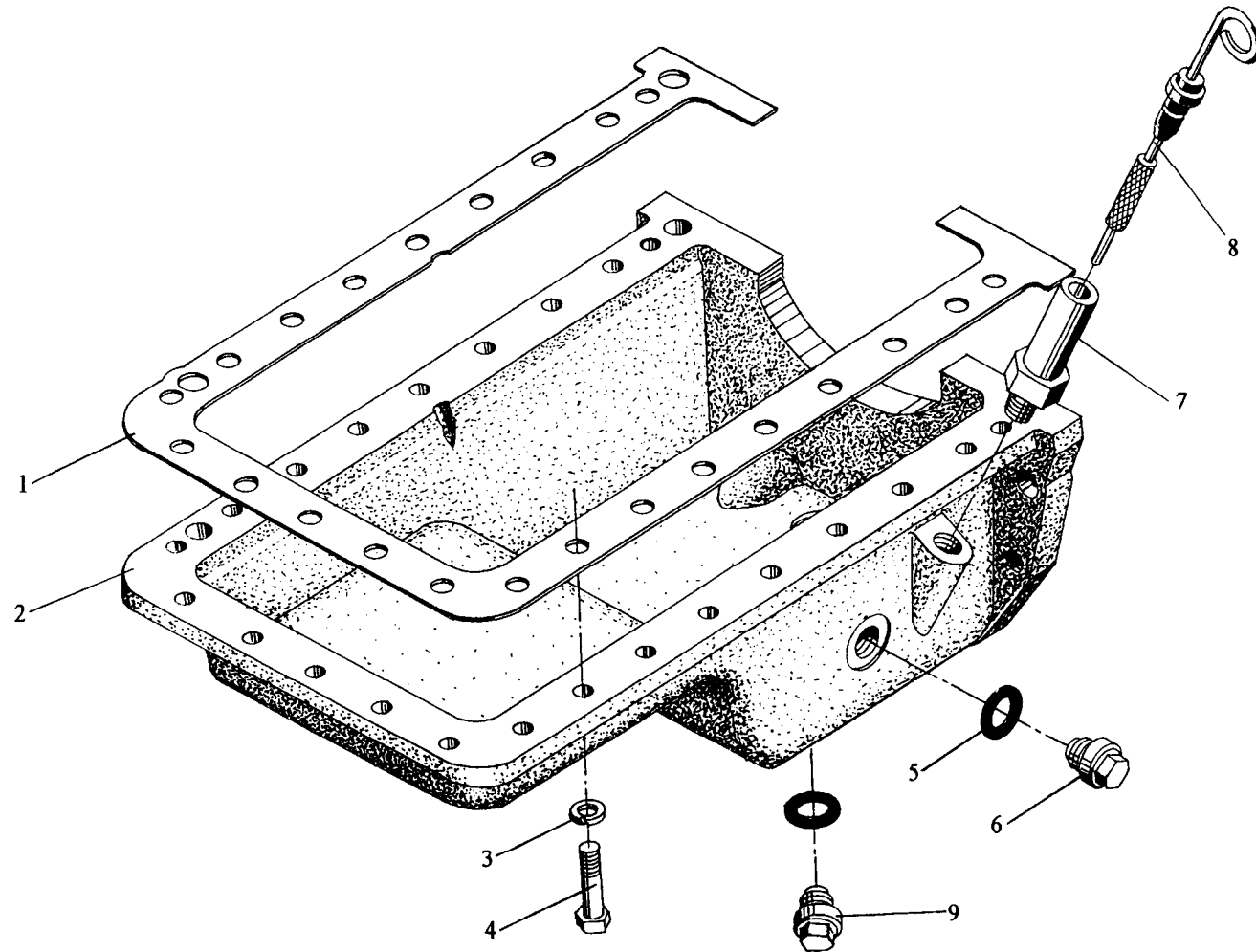
07 Sump Assembly (II)



07 Sump Assembly (II)

No.	Part Name	Drawing No.	QTY.	Remarks
	Sump assembly	4RT16-070000	1	
1	Gasket,sump	4RG1-070004	1	
2	Sump	4RT16-070001	1	
3	Spring washer 10	GB 93-76·Zn·D	23	
4	Bolt M10×35	GB 21-76·8·8·Zn·D	23	
5	O-seal ring 35×3.5	YTQ 020.2-86	1	
6	Oil drain plug assy	6RQJ-070100	1	
7	Sleeve,dipstick	RTJ 070002	1	
8	Dipstick assembly	6RG5 070200	1	
9	Screw plug NPT 1/2"	Q/SB 143-64	1	

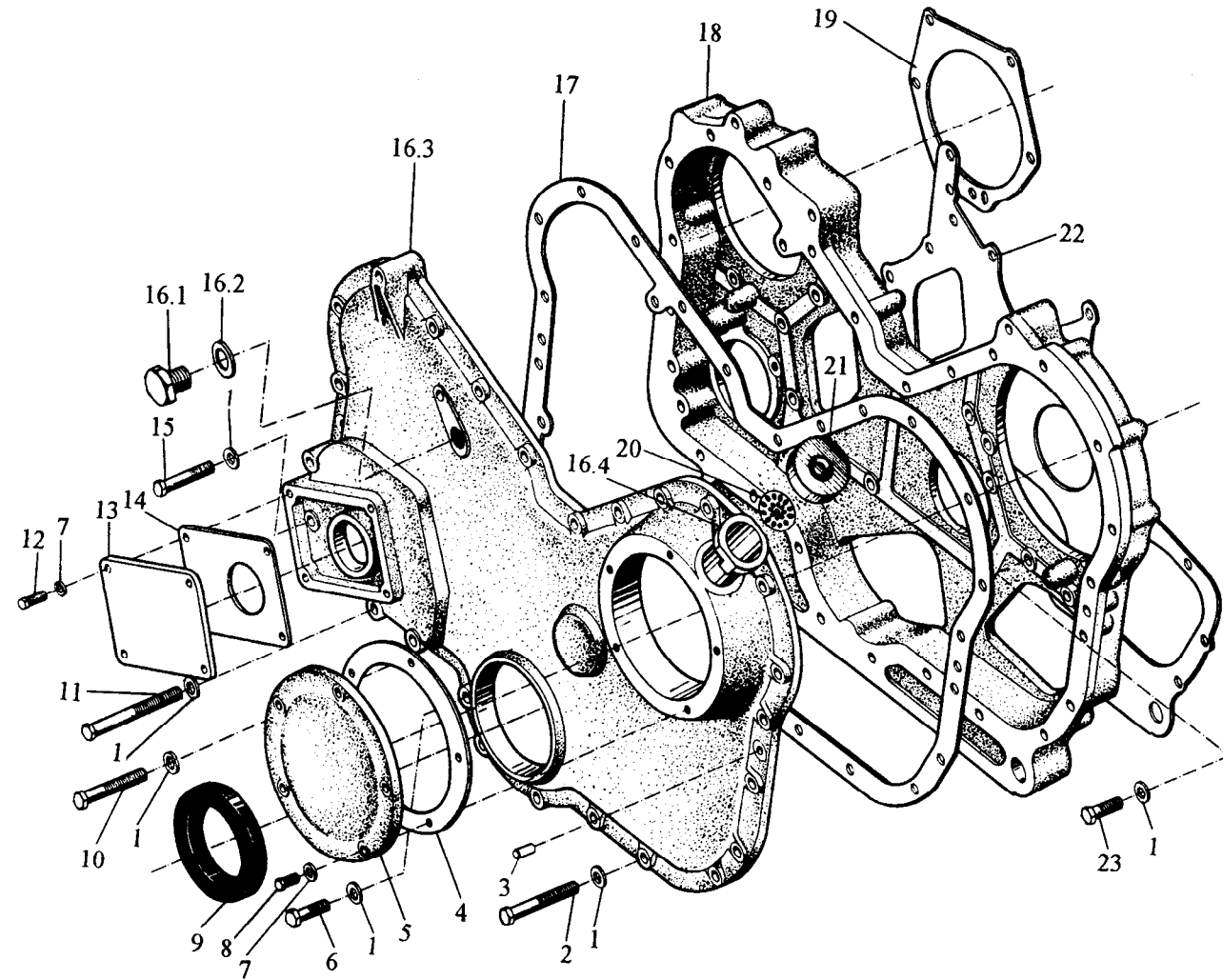
07 Sump Assembly (III)



07 Sump Assembly (III)

No.	Part Name	Drawing No.	QTY.	Remarks
	Sump assembly	4RG12-070000	1	
1	Gasket,sump	4RG1-070004	1	
2	Sump	4RG12-070001	1	
3	Spring washer 10	GB 93-76	23	
4	Bolt M10×35	GB 21-76-8-8-Zn-D	23	
5	O-seal ring 35×3.1	YTQ 020.2-86	1	
6	Oil drain plug assy	6RQJ-070100	1	
7	Sleeve,dipstick	4RG3-070300	1	
8	Dipstick assembly	4RG3-070400	1	
9	Screw plug NPT 1/2"	YTQ 021.1-86	1	

08 Timing Gear Chamber Assembly



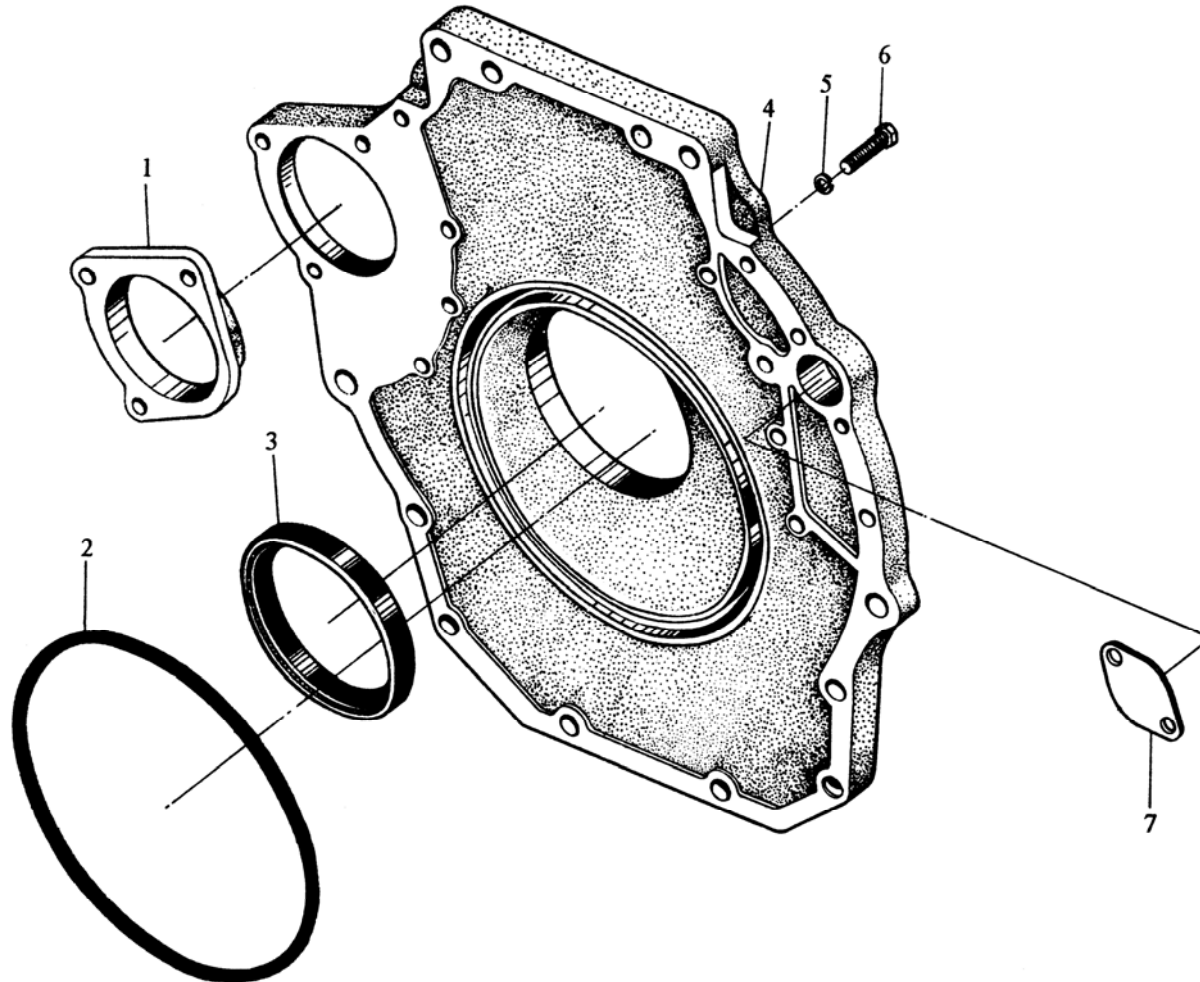
08 Timing Gear Chamber Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Timing gear chamber assembly	4RTF-080000	1	
1	Washer 10	GB 848-76·Zn·D	33	
2	Bolt M10×70	GB 22-76·Zn·D	7	
3	Pin 8ga×16	GB 119-76	2	
4	Gasket,inspection hole cover	R080005	1	
5	Inspection hole cover	R080004	1	
6	Bolt M10×35	GB 21-76·Zn·D	2	
7	Washer 8	GB 848-76·Zn·D	9	
8	Bolt M8×22	GB 21-76·Zn·D	5	
9	Oil sealing 65×90×12	LR080150	1	
10	Bolt M10×60	GB 22-76·Zn·D	2	
11	Bolt M10×90	GB 22-76·Zn·D	2	
12	Bolt M8×18	GB 21-76·Zn·D	4	
13	Cover plate	RT060028	1	
14	Gasket,hydraulic pump	LRT060029	1	
15	Bolt M10×50	GB 22-76·Zn·D	2	
16	Cover assembly,timing gear chamber	3RTF-080100A	1	
16.1	Screw plug	3RTF-080105	1	
16.2	Washer 18	GB 95-76	1	
16.3-1	Cover assembly,timing gear chamber	3RTF-080101	1	
16.3-2	Cover assembly,timing gear chamber	4RG3.080101-2	1	
16.4	Oil filler	R080102-1	1	
17	Gasket,timing gear chamber cover	RT080003	1	

08 Timing Gear Chamber Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
18	Timing gear chamber	RT080001-2	1	
19	Sealing plate,air compressor	R080011	1	
20	Screen	R080008	1	
21	Cover,oil filler	R080015	1	
22	Gasket,timing gear chamber	RT080002	1	
23	Bolt M10×30	GB 21-76-Zn·D	18	

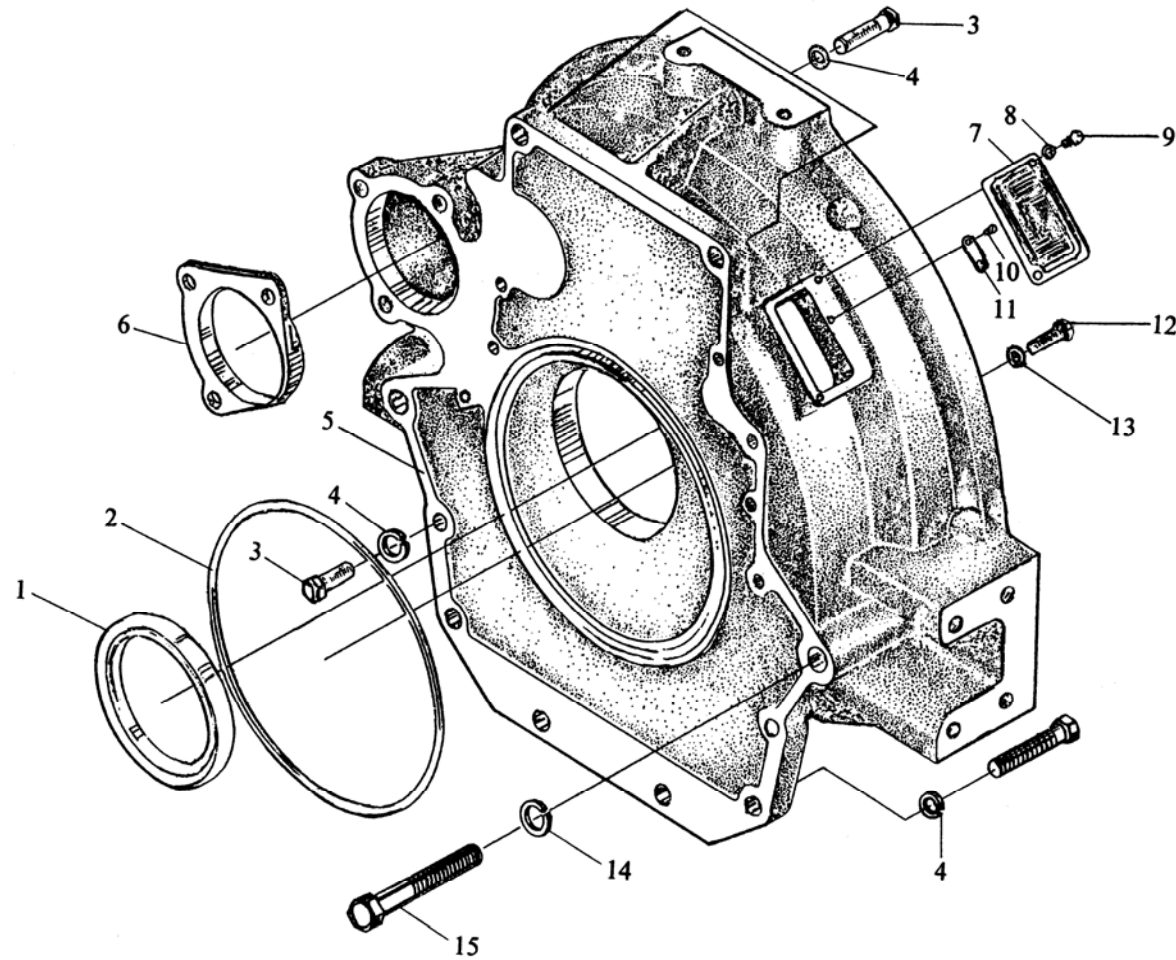
09 Flywheel Housing Assembly (I)



09 Flywheel Housing Assembly (I)

No.	Part Name	Drawing No.	QTY.	Remarks
	Flywheel housing assy	4RTF·090000-1	1	
	Flywheel housing assy	4RG14·090000	1	
1	Intermediate plate	4RTF·090009-1	1	
2	O-seal ring	LR090008	1	
3	Oil seal 105×130×12	LR090100	1	
4	Flywheel housing	4RTF·090001-2	1	
	Flywheel housing	4RG14·090001	1	
5	Washer 10	GB 93-76	7	
6	Bolt M10×30	GB 21-76	7	
7	Cover plate,gear shaft hole	4RTF·090004	1	

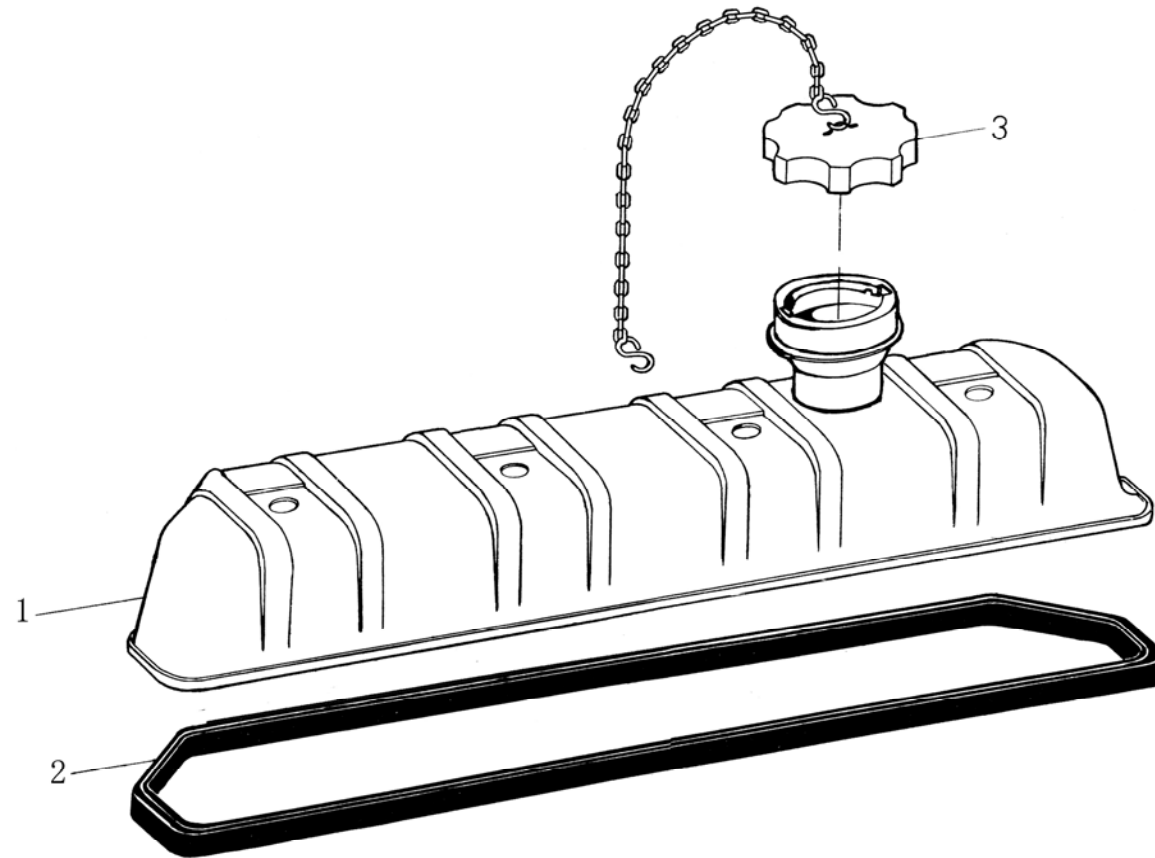
09 Flywheel Housing Assembly (II)



09 Flywheel Housing Assembly (II)

No.	Part Name	Drawing No.	QTY.	Remarks
	Flywheel housing assembly	4RT3 • 090000-2	1	
1	Oil seal 105×130×12	LR090100	1	
2	O-ring	LR090008	1	
3	Bolt M14×50	GB 5782-86	8	
4	Washer 14	GB 93-87	8	
5	Flywheel housing	4RT3 • 090001-2A	1	
6	Intermediate plate	4RTF • 090009-1	1	
7	Observation port cover	4RG1-090003	1	
8	Washer 6	GB 93-87	2	
9	Bolt M6×12	GB 5781-86	2	
10	Screw M4×10	GB 67-85	2	
11	Pointer	4RG1 • 090004	1	
12	Bolt M10×30	GB 5783-86	7	
13	Washer 10	GB 93-87	7	
14	Washer 16	GB 93-87	2	
15	Bolt M16×90	GB 5782-86	2	

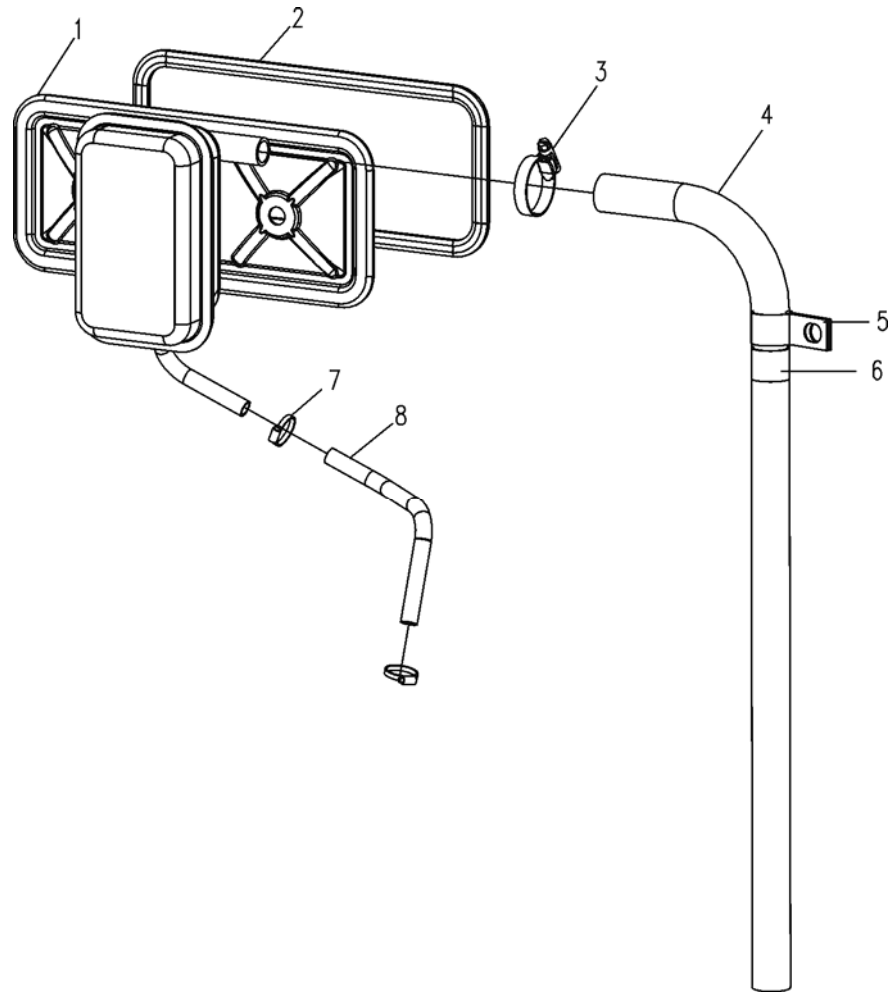
11 Cylinder Head Hood Assembly



11 Cylinder Head Hood Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Cylinder head hood assembly	L4R110000	1	
1	Hood,cylinder head	4RT62.110100A-1	1	
2	Sealing gasket,cylinder head hood	L4R110001	1	
3	Cover,oil filler	4RG1.110300	1	

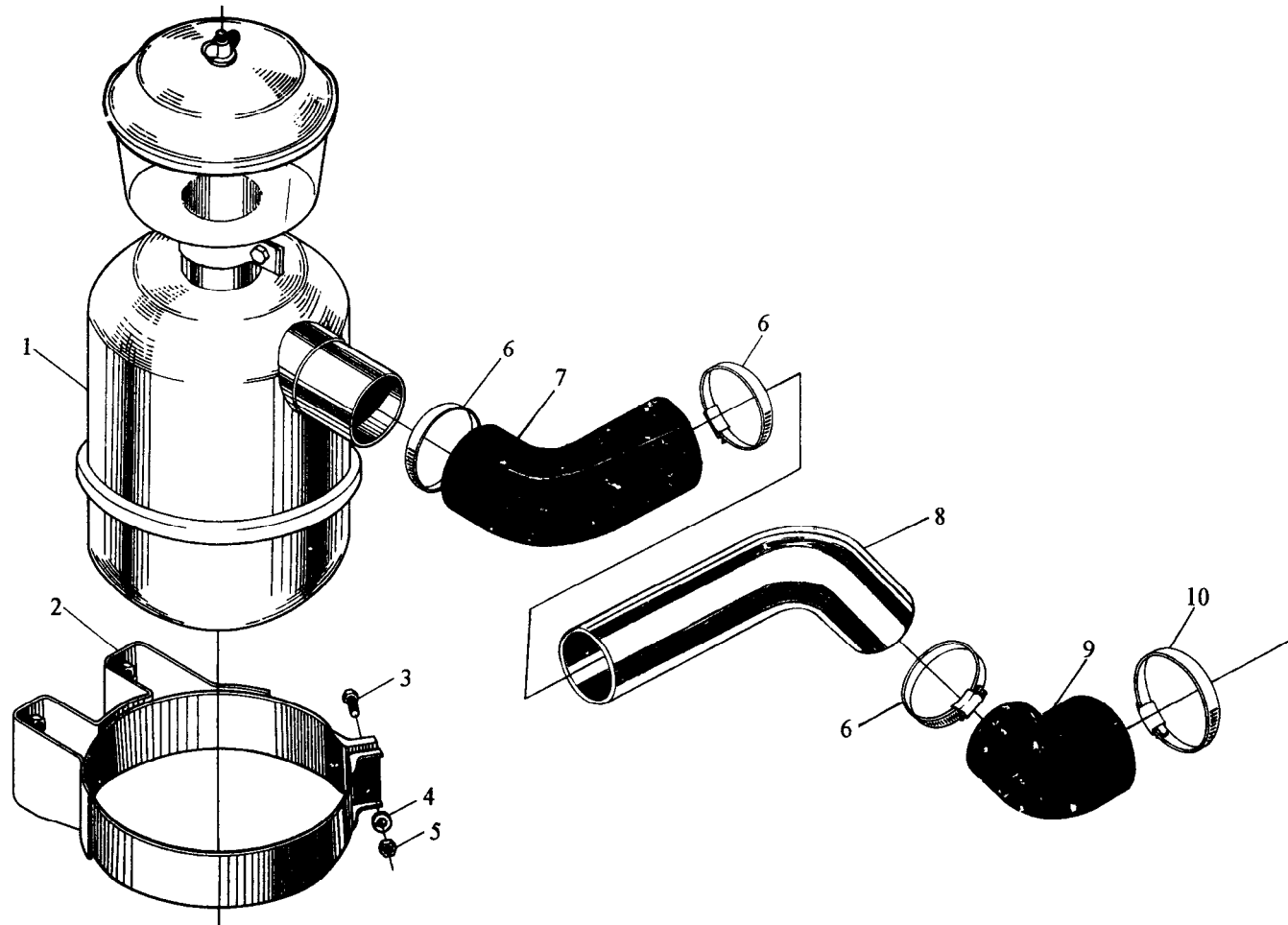
12 Crankcase Ventilation Assembly



12 Crankcase Ventilation Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
1	Crankcase ventilation assembly	4RG1.120000-2	1	
1	Oil-air separator and rear push rod chamber cover assembly	4RG1-120100FE	1	
2	Gasket,push rod chamber cover	4R020009	1	
3	Hoop	JK-1A	1	
4	Exhaust pipe,ventilation	6RG63.120301-1	1	
5	Clamp	6RQ.120023-1	1	
6	Clamp bush	R120007	1	
7	Hoop	JK-0	2	
8	Upper oil return pipe,crankcase	R120001-2	1	

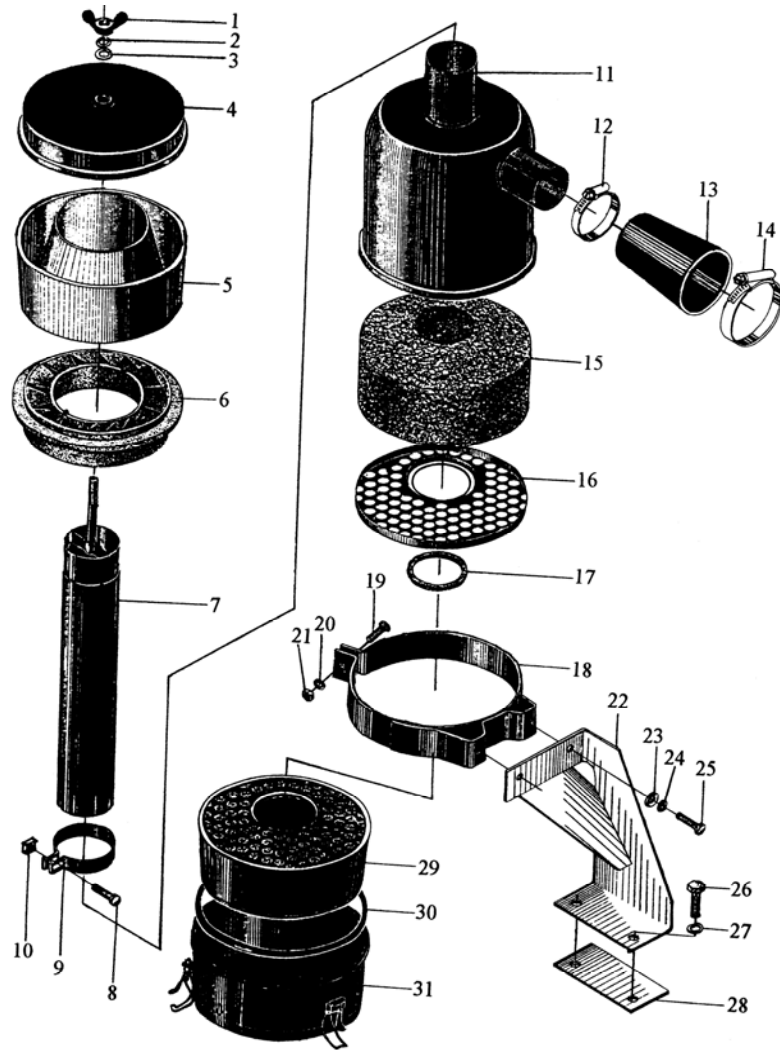
21 Air Cleaner Installation Assembly (I)



21 Air Cleaner Installation Assembly (I)

No.	Part Name	Drawing No.	QTY.	Remarks
	Air cleaner installation assembly	4RTF210000	1	
1	Air cleaner assembly	KY 250A-0000	1	
2	Bracket assembly,air cleaner	4RTF • 210350	1	
3	Bolt M8×25	GB 21-76-Zn • D	2	
4	Washer 8	GB 93-76	2	
5	Nut M8	GB 51-76-Zn • D	2	
6	Hoop,rubber hose	JK-3X	3	φ 64~76
7	Outlet hose,air cleaner	4RTF • 210001	1	
8	Connecting hose	4RTF • 210002	1	
9	Connecting rubber hose,intake	4RTF • 210003	1	
10	Hoop,tubber hose	JK-4X	1	φ 70~89

21 Oil Bath Air Cleaner Installation Assembly (II)



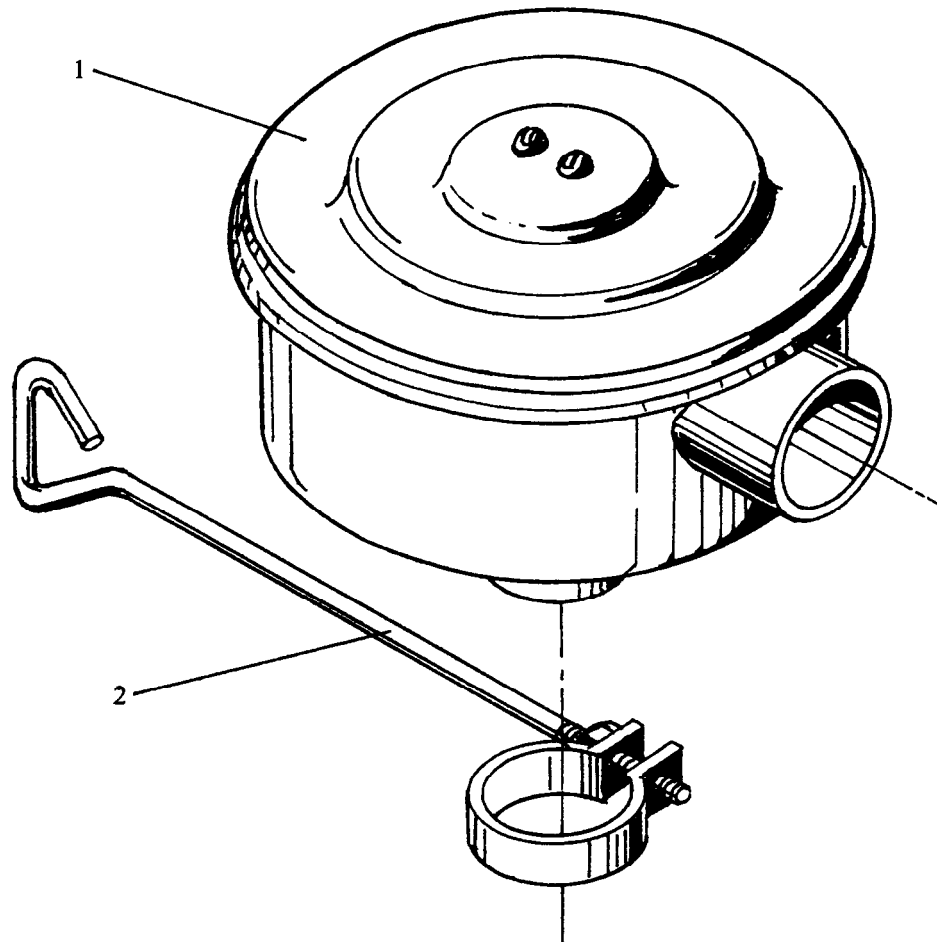
21 Oil Bath Air Cleaner Installation Assembly (II)

No.	Part Name	Drawing No.	QTY.	Remarks
1	Nut M8	GB 62-76	1	
2	Washer 8	GB 97-76	1	
3	Paper gasker	空 2410-0033	1	
4	Cover,preliminary filter	空 4115-0101	1	
5	Dust collector	空 4115-0102	1	
6	Fan	空 4115-0103	1	
7	Air inlet pipe assembly	空 4115-0200	1	
8	Bolt M8×30	GB 30-76	1	
9	Clamp	空 4115-0001	1	
10	Nut M8	GB 39-76	1	
11	Body assembly	F3/4L912A-0200	1	
12	Clamp 64~76	JK-3X	1	
13	Connecting hose	220006	1	
14	Clamp 80~92	JK-4X	1	
15	Fine filter	F3/4L912-0101	1	
16	Lower strainer,fine filter	F3/4L912-0102	1	
17	Seal ring	F3/4L912-0002	1	
18	Mounting bracket assembly	F3/4L912A-0900	1	
19	Bolt M6×30	GB 30-76	1	
20	Spring washer 6	GB 93-76	1	
21	Nut M6	GB 39-76	1	
22	Bracket assembly,air cleaner	65L-1109030	1	

21 Oil Bath Air Cleaner Installation Assembly (II)

No.	Part Name	Drawing No.	QTY.	Remarks
23	Washer 8	GB 97-76	2	
24	Spring washer 8	GB 93-76	2	
25	Bolt M8×25	GB 21-76	2	
26	Bolt M12×30	GB 21-76	2	
27	Spring washer 12	GB 93-76	2	
28	Gasket	65L-1109033	1	
29	Prefilter assembly	F3/4L912-0400	1	
30	Sealing ring	F3/4L912-0001	1	
31	Oil pan assembly	F3/4L912-0600	1	

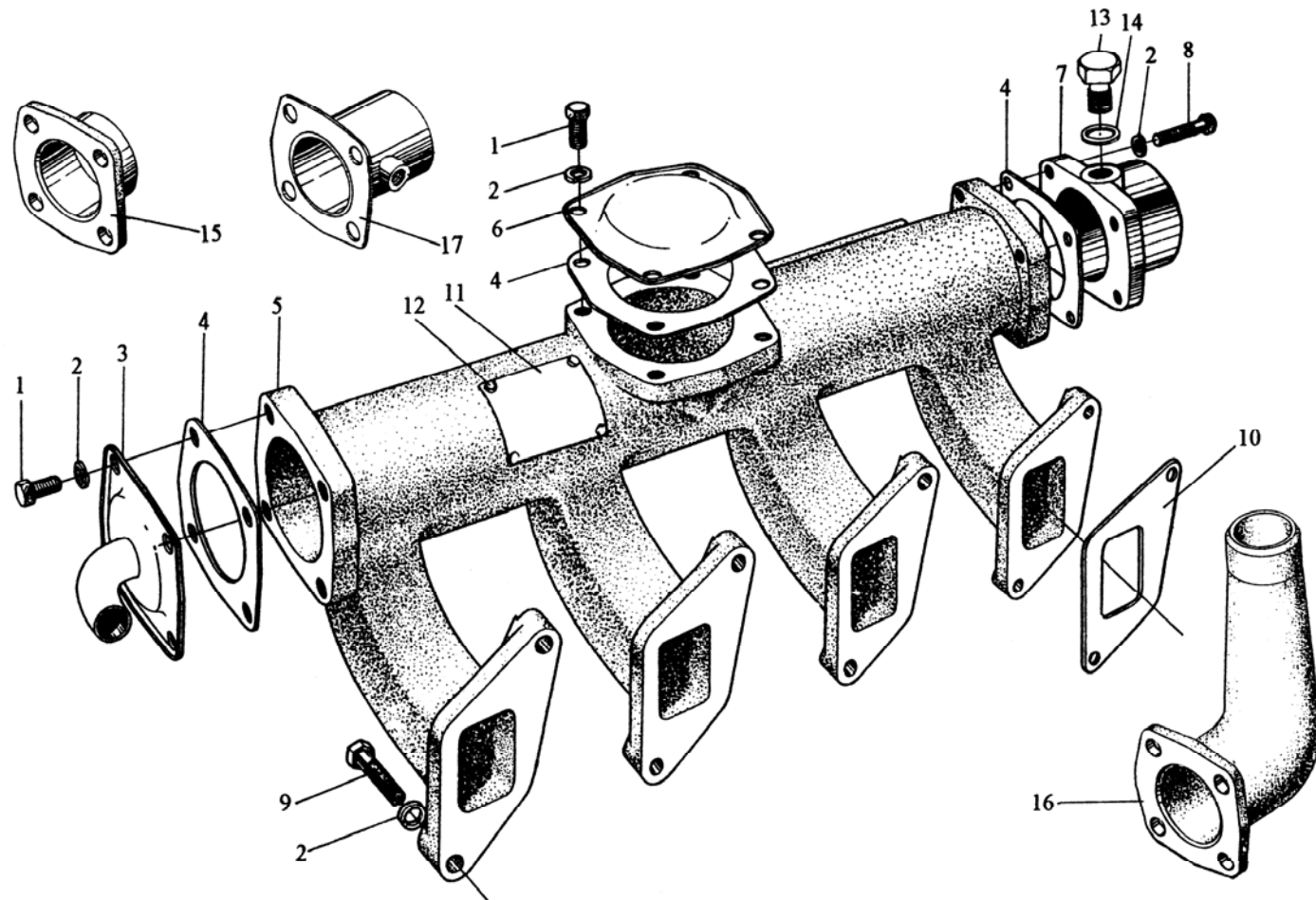
22 Air Cleaner Installation Assembly (III)



21 Air Cleaner Installation Assembly (III)

No.	Part Name	Drawing No.	QTY.	Remarks
	Air cleaner installation assembly	4RG12 • 210000	1	4RG12 • 0001
1	Air cleaner assembly	K2410A-0000	1	4RG12 • 0000
2	Hoop			K2410A-0000

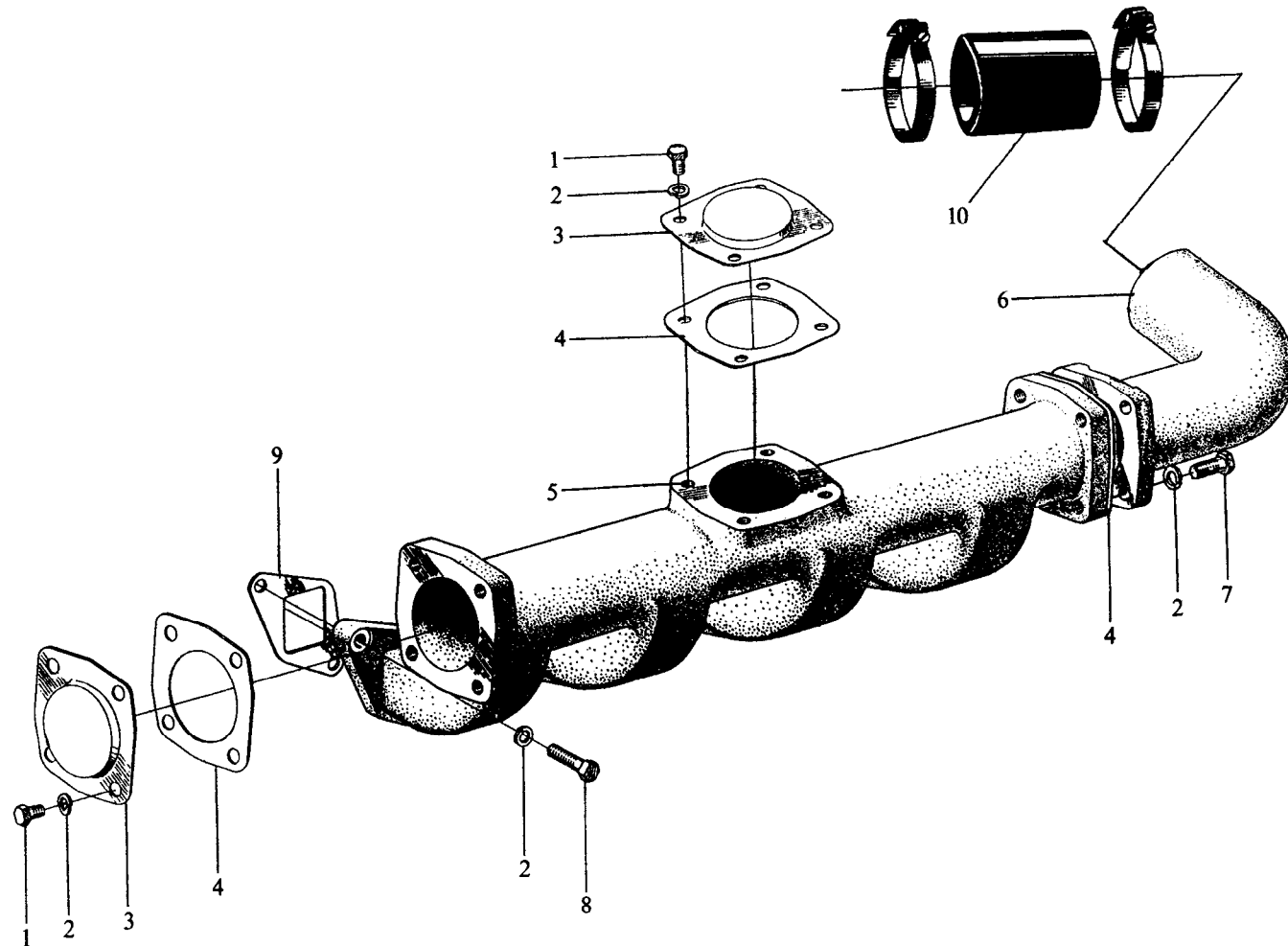
22 Intake Tube Assembly (I)



22 Intake Tube Assembly (I)

No.	Part Name	Drawing No.	QTY.	Remarks
	Intake manifold assembly	4RTF220000-1	1	
	Intake manifold assembly	4RT7 • 220000	1	
1	Bolt M10×25	GB5783-2000-ZnD	8	
2	Spring washer 10	GB 93-76	20	
3	Rear cover,intake manifold	4RTF • 220100	1	
	Rear cover,intake manifold	4RT3.710510	1	
4	Gasket,intake manifold	4RG1 • 220002	3	
5	Intake manifold	4RG1 • 220001	1	
6	End cover,intake manifold	4RT12 • 220004N	1	
7	Connecting tube,intake manifold	4RTF • 220005	1	
8	Bolt M10×25	GB 21-76-Zn • D	4	
9	Bolt M10×35	GB 21-76-Zn • D	8	
10	Gasket,intake manifold	R220003	4	
11	Name plate	LR070009A	1	
12	Rivet 4×6	GB 827-76	4	
13	Screw plug,air intake	4RG1-220005	1	
14	Washer	16-062	1	
15	Connecting tube,air intake	4RG12 • 220102	1	
16	Connecting tube,air intake	4RG8 • 220007	1	
17	Connecting tube,air intake	4RG1 • 2201000	1	

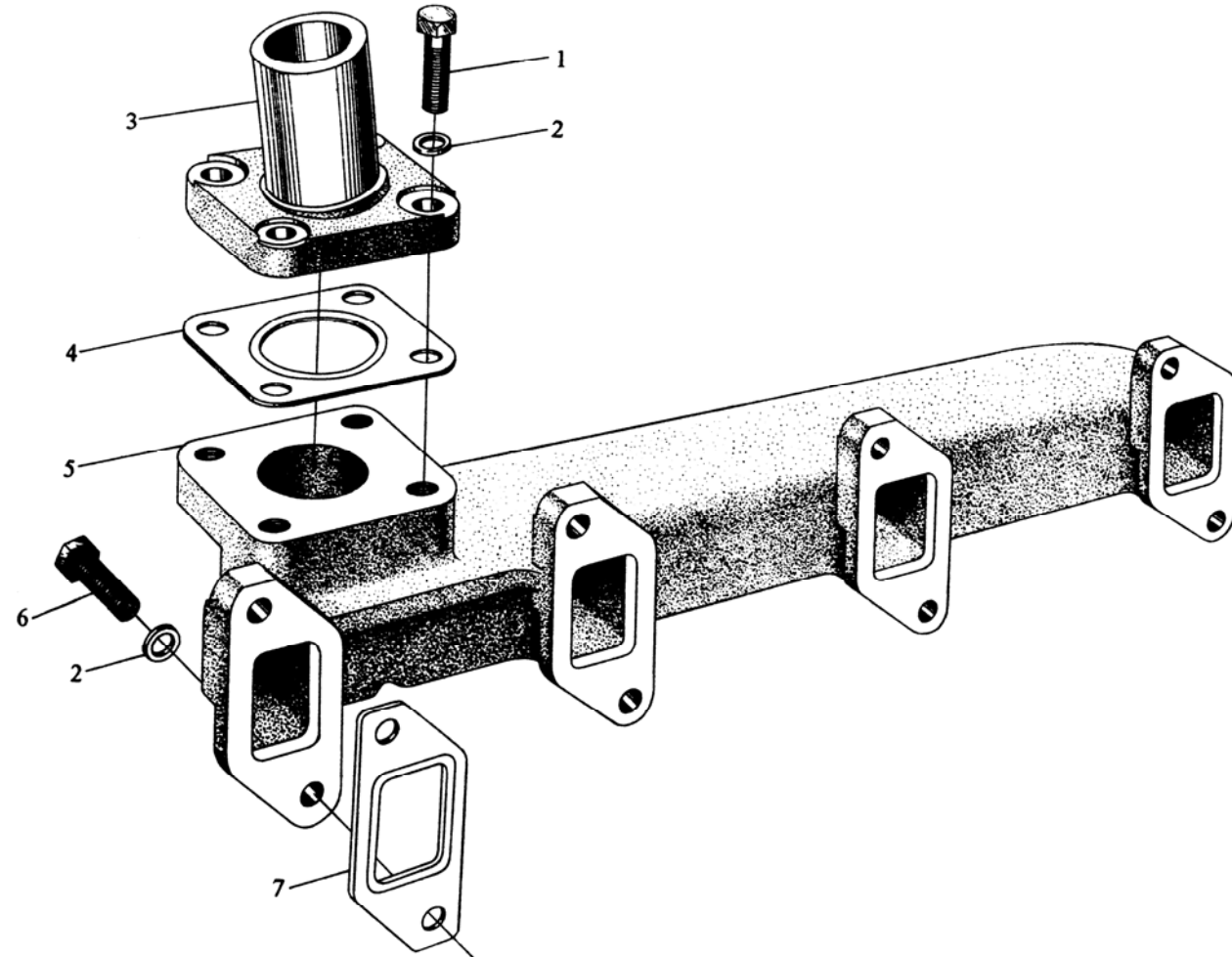
22 Intake Tube Assembly (II)



22 Intake Tube Assembly (II)

No.	Part Name	Drawing No.	QTY.	Remarks
1	Bolt M10×25	GB 21-76	8	
2	Washer 10	GB 93-76	20	
3	Cover ,air intake manifold	4RT12 • 220004N	2	
4	Gasket	4RG1 • 220002	3	
5	Air intake manifold	4RG1 • 220001	1	
	Air intake manifold	4RG1 • 220011	1	
6	Connecting tube,air intake	4RT3 • 220005-1	1	
7	Bolt M10×25	GB 5781-86	4	
8	Bolt M10×35	GB 5781-86	8	
9	Air intake manifold gasket	R220003	4	

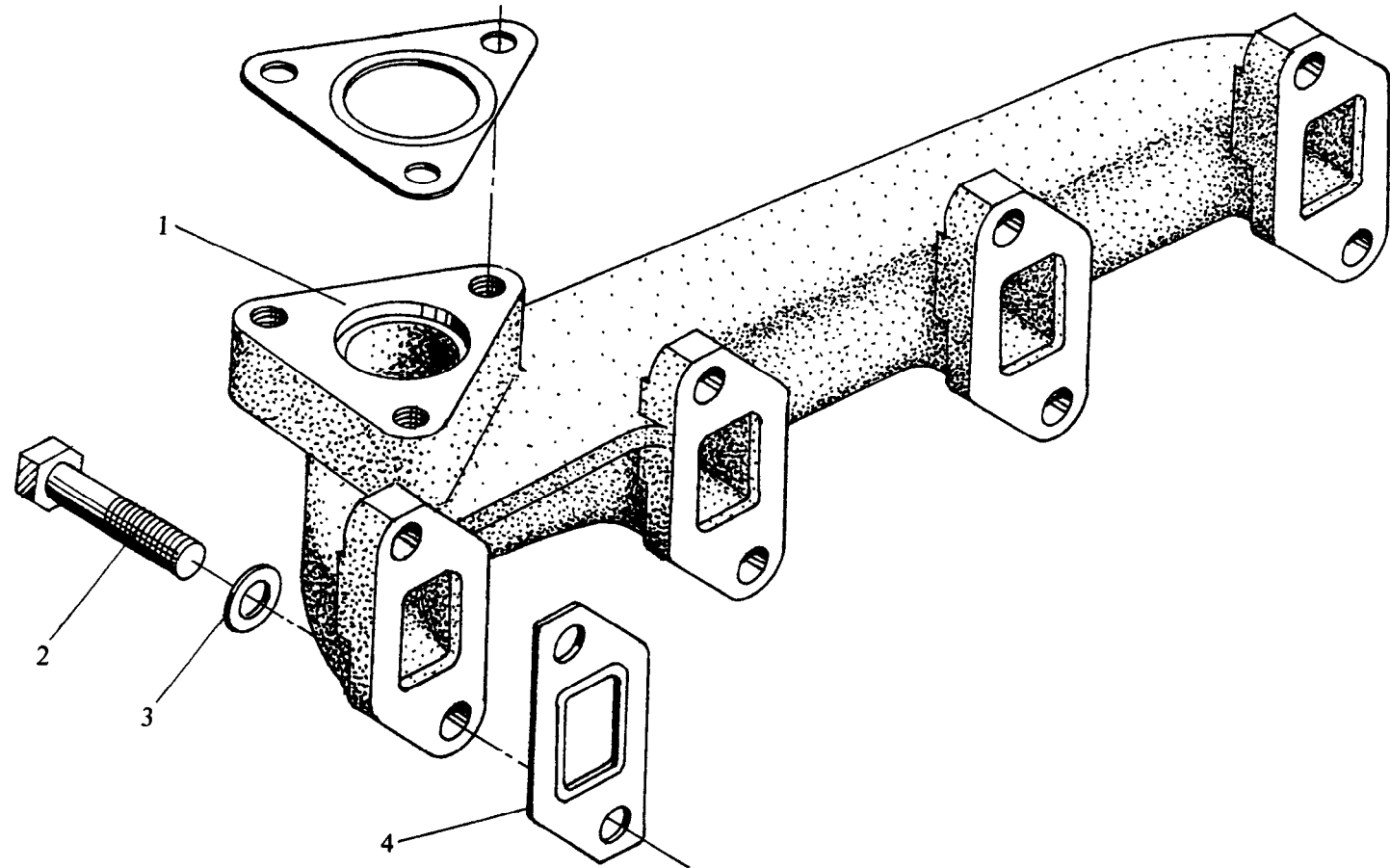
23 Exhaust Tube Assembly (I)



23 Exhaust Tube Assembly (I)

No.	Part Name	Drawing No.	QTY.	Remarks
	Exhaust tube assembly	4RTF • 230000-1	1	
1	Bolt M10×30	GB/T5783-2000GB	4	
2	Washer 10	GB/T848-1985	4	
3	Connecting tube,exhaust tube	4RTF • 230003	1	
4	Washer,connecting tube,exhaust tube	4RTF • 230002	1	
5	Exhaust tube	4RTF • 230001-1	1	
6	Bolt M10×35	GB5787-86	8	
7	Gasket exhaust manifold	LR230002A	4	

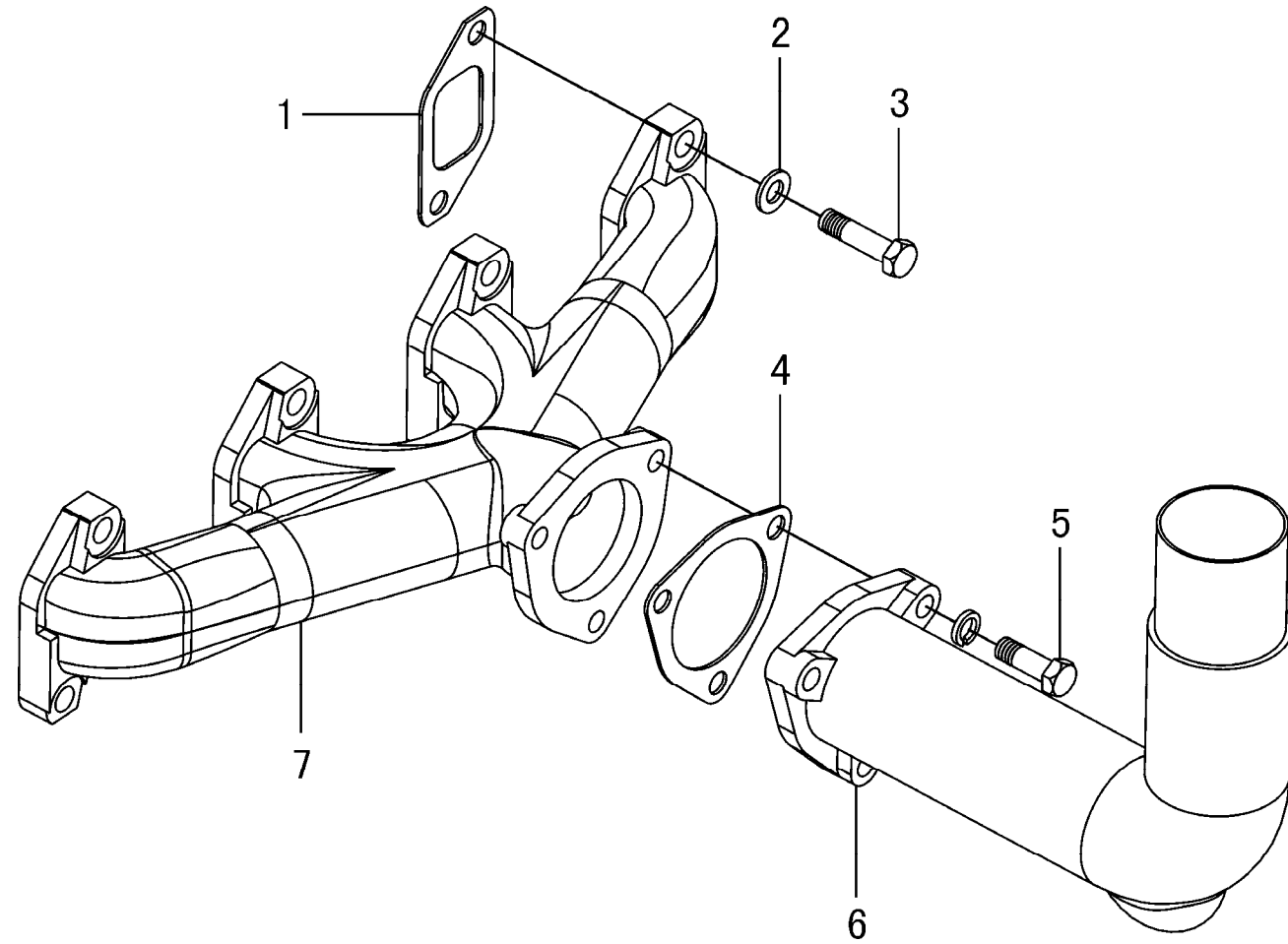
23 Exhaust Tube Assembly (II)



23 Exhaust Tube Assembly (II)

No.	Part Name	Drawing No.	QTY.	Remarks
	Exhaust tube assembly			
1	Exhaust tube	4RG14 • 230001	1	
2	Bolt M10×35	GB/T5787-2000	8	
3	Washer 10	GB 93-76	8	
4	Gasket, exhaust manifold	R230002A	4	

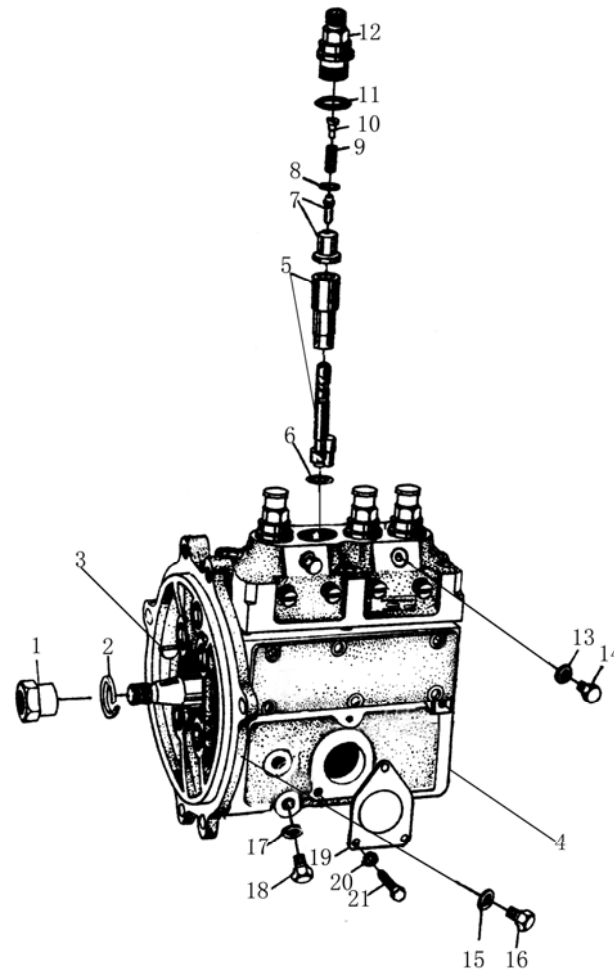
23 Exhaust Tube Assembly (III)



23 Exhaust Tube Assembly (III)

No.	Part Name	Drawing No.	QTY.	Remarks
	Exhaust tube assembly	4RT60.230000	1	
1	Gasket,exhaust manifold	R230002A	4	
2	Spring washer 10	GB/T848-1985	3	
3	Bolt M10×35-Zn.D	GB/T5787-2000	8	
4	Gasket, muffler elbow	R230003A	1	
5	Bolt M10×30-Zn.D	GB/T5783-2000	3	
6	Exhaust elbow	4RT3.230004	1	
7	Exhaust tube	4R230001	1	

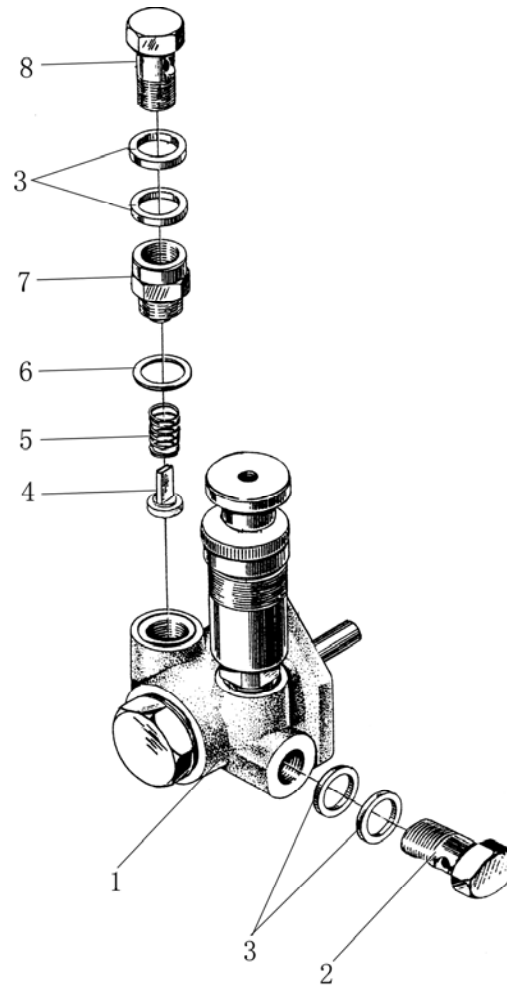
31 Fuel Injection Pump with Governor Installation Assembly (1) ZHB Injection Pump Assembly



31 (1) ZHB Injection Pump Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
1	Nut	ZHBF6-10-016	1	
2	Spring washer 14	GB93-87	1	
3	Woodruff key	ZHB-039	1	
4	Body,fuel injection pump	ZHBF4-000	1	
5	Plunger pair	ZHE9540Z-00-1	4	
6	Washer	ZHB-025	4	
7	Delivery valve pair	ZHF6-00	4	
8	Washer,fuel outlet valve seat	ZHB-024	4	
9	Spring,fuel outlet valve	B II -207A	4	
10	Volume reducer	B II -208	4	
11	Sealing ring	ZHB-017	4	
12	Delivery valve holder	ZHBF6-10-029	4	
13	Washer	B II -044	4	
14	Air-vent screw	B II -053-2	2	
15	Washer	8120F • 01 • 042	1	
16	Screw plug	ZHBF6-10-015	1	
17	Washer	B II -044	2	
18	Screw plug	ZHB-038	2	
19	Gasket,feed pump	B II -019A	1	
20	Spring washer 6	GB93-87	3	
21	Bolt M6×16	GB5783-86	3	

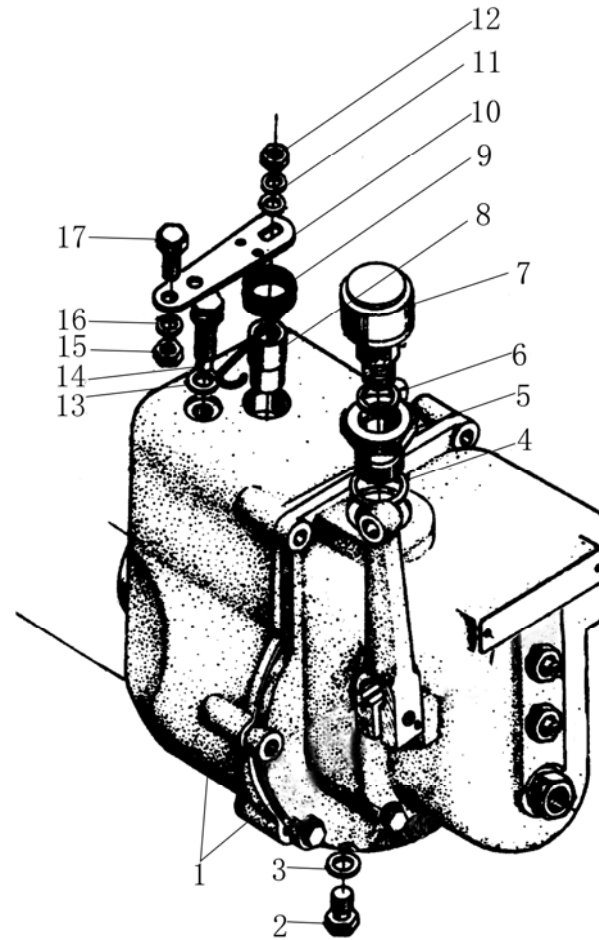
31 (2) Feed pump Assembly



31 (2) Feed pump Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
1	Feed pump assembly	B II -060-3A	1	
2	Pipe joint bolt	16-110B	1	
3	Washer	16-006	4	
4	Feed pump valve	16-123D	2	
5	Spring feed pump valve	B II -069	2	
6	Washer	16-062	2	
7	Outlet pipe joint seat	B II -065	1	
8	Pipe joint bolt	16-110B	1	

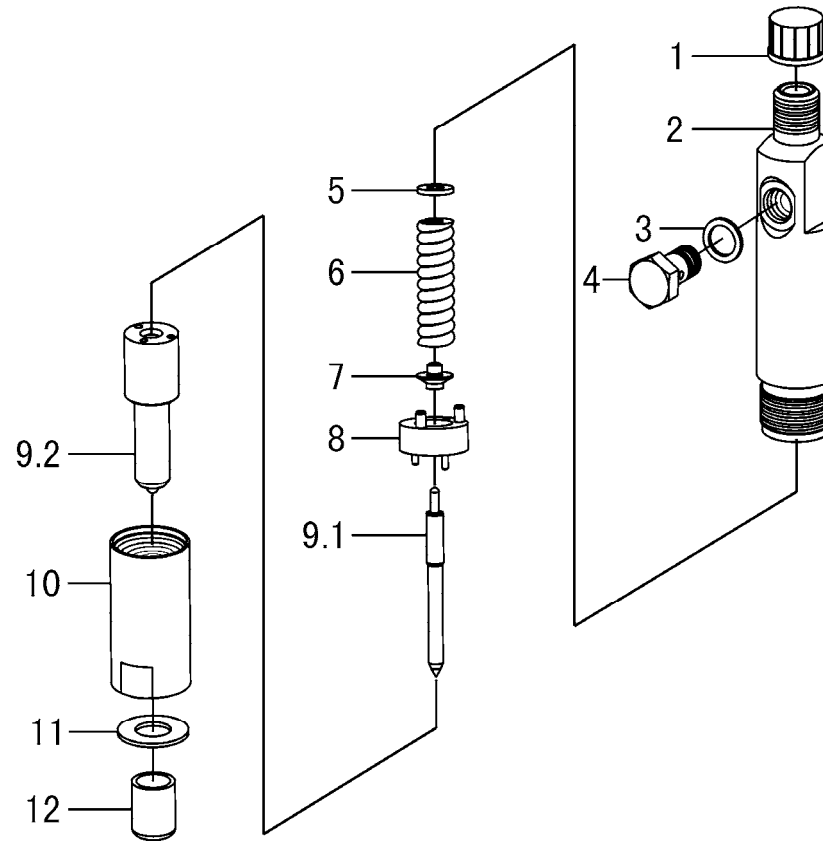
31 (3) TA Governor Assembly



31 (3) TA Governor Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
1	Governor assembly	TA-13-000	1	
2	Screw plug	ZHB-038	1	
3	Washer	B II -044	1	
4	Washer	16-159	1	
5	Breather seat	TA-00-019	1	
6	Washer	42.19.155	1	
7	Breather assembly	TA-00-060	1	
8	Bush,stop shaft	TA-00-002	1	
9	Torsion spring	TA-00-005	1	
10	Stop handle	TA-00-004	1	
11	Washer 6	GB93-87	2	
12	Nut M6	GB6170-86	1	
13	Washer	B II -044	1	
14	Stop screw,control rod	TA00-008A	1	
15	Nut M6	GB6170-86	1	
16	Washer 6	GB93-87	1	
17	Screw	T II -075	1	

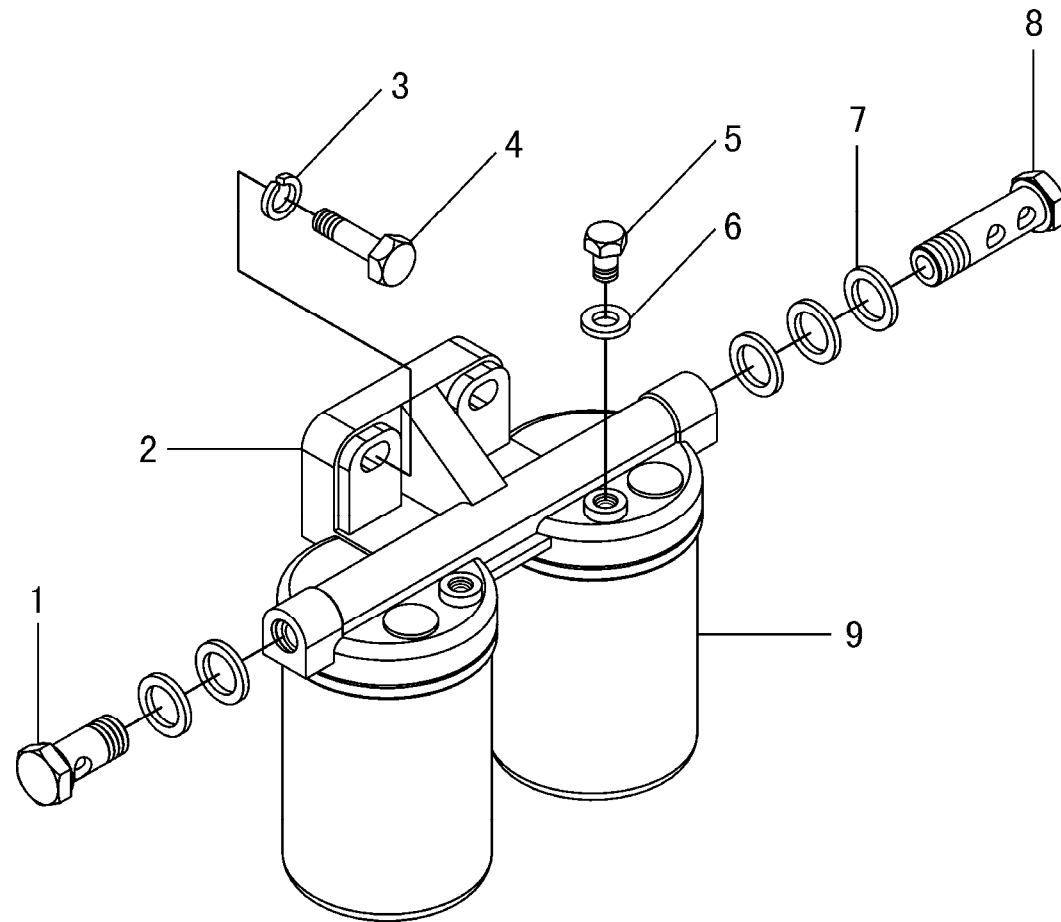
32 Fuel Injector Assembly (PB84P30)



32 Fuel Injector Assembly (PB84P30)

No.	Part Name	Drawing No.	QTY.	Remarks
	Fuel injector	PB84P30	4	
1	Inlet protection cap	PB86J-00-008A	4	
2	Nozzle holder body	BK.PB84P-30-001	4	
3	Shims	PB84P-00-012	8	
4	Leak-off bleed screw joint	PB84P-00-011	4	
5	Pressure-adjusting shim	PB86J-00-029	As require	
6	Spring	PB85PL-00-002A	4	
7	Spring seat	PB85PL-00-006	4	
8	Adaptor plate	PB85PL-00-010	4	
9	Nozzle	BK.DSLA150P920-30	4	
9.1	Nozzle needle	DSL A135P005-00-01	4	
9.2	Nozzle body	BK.DSLA150P920-30-02	4	
10	Nozzle cap nut	BK.PB84P-00A-004	4	
11	Shims	PS01-003A	4	
12	Nozzle body protection cap	PB85PL-00-009	4	

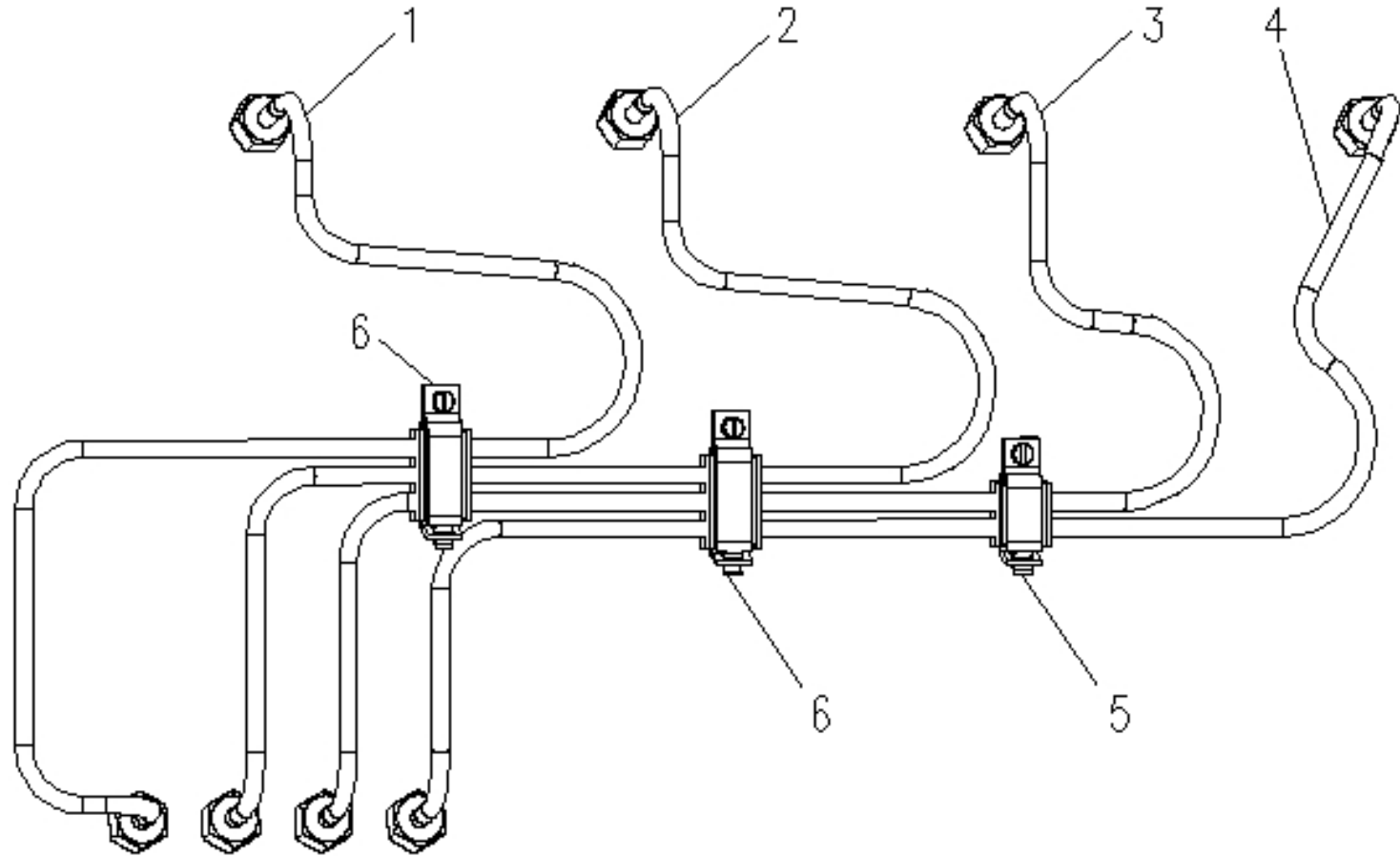
33 Fuel Filter Installation Assembly



33 Fuel Filter Installation Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Fuel filter installation assembly	4R330000	1	
	Fuel filter assembly	CX0708S-0000	1	
1	Bolt,fuel pipe	C0810A-0011	1	
2	Filter seat	CX0708S-0003	1	
3	Spring washer 10	GB/T93-1987	2	
4	Bolt M10×30	GB/T5783-2000	2	
5	Air bleed screw plug	C0708S-0005	2	
6	Washer	C0506B-0017	2	
7	Washer	C0810A-0009	7	
8	Locking bolt,filter fuel inlet hole	54.18.427	1	
9	Fuel filter	CX0708S	2	

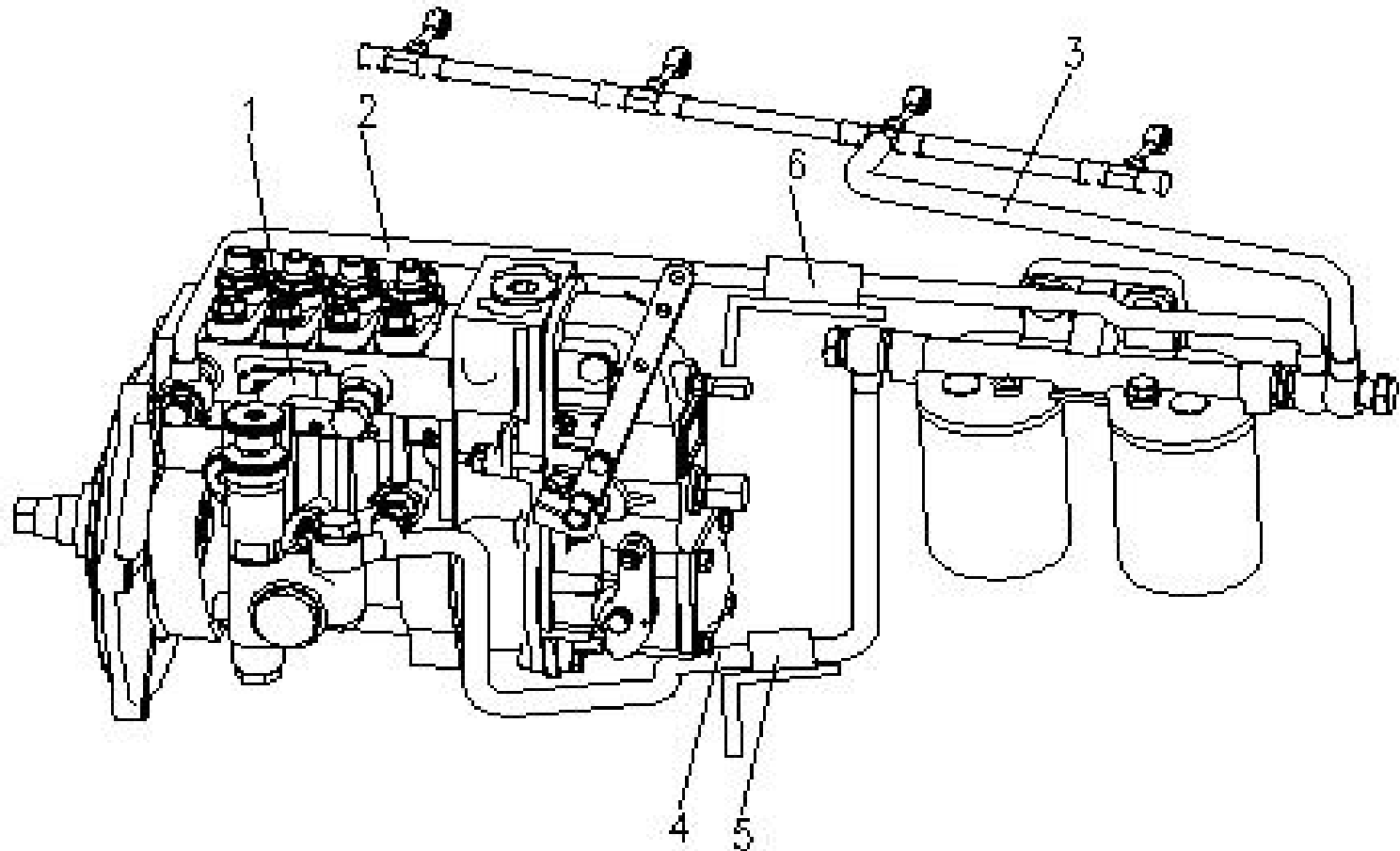
34 Fuel Injection Pipes Assembly



34 Fuel Injection Pipes Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Fuel injection pipes assembly	L4R340000BFE	1	
1	Fuel injection pipe assy,cylinder No.1	L4R340000BFE-1	1	
2	Fuel injection pipe assy,cylinder No.2	L4R340000BFE-2	1	
3	Fuel injection pipe assy,cylinder No.3	L4R340000BFE-3	1	
4	Fuel injection pipe assy,cylinder No.4	L4R340000BFE-4	1	
5	Clamp assy for 2 injection pipes	R340700	1	
6	Clamp assy for 3 injection pipes	R340600	2	

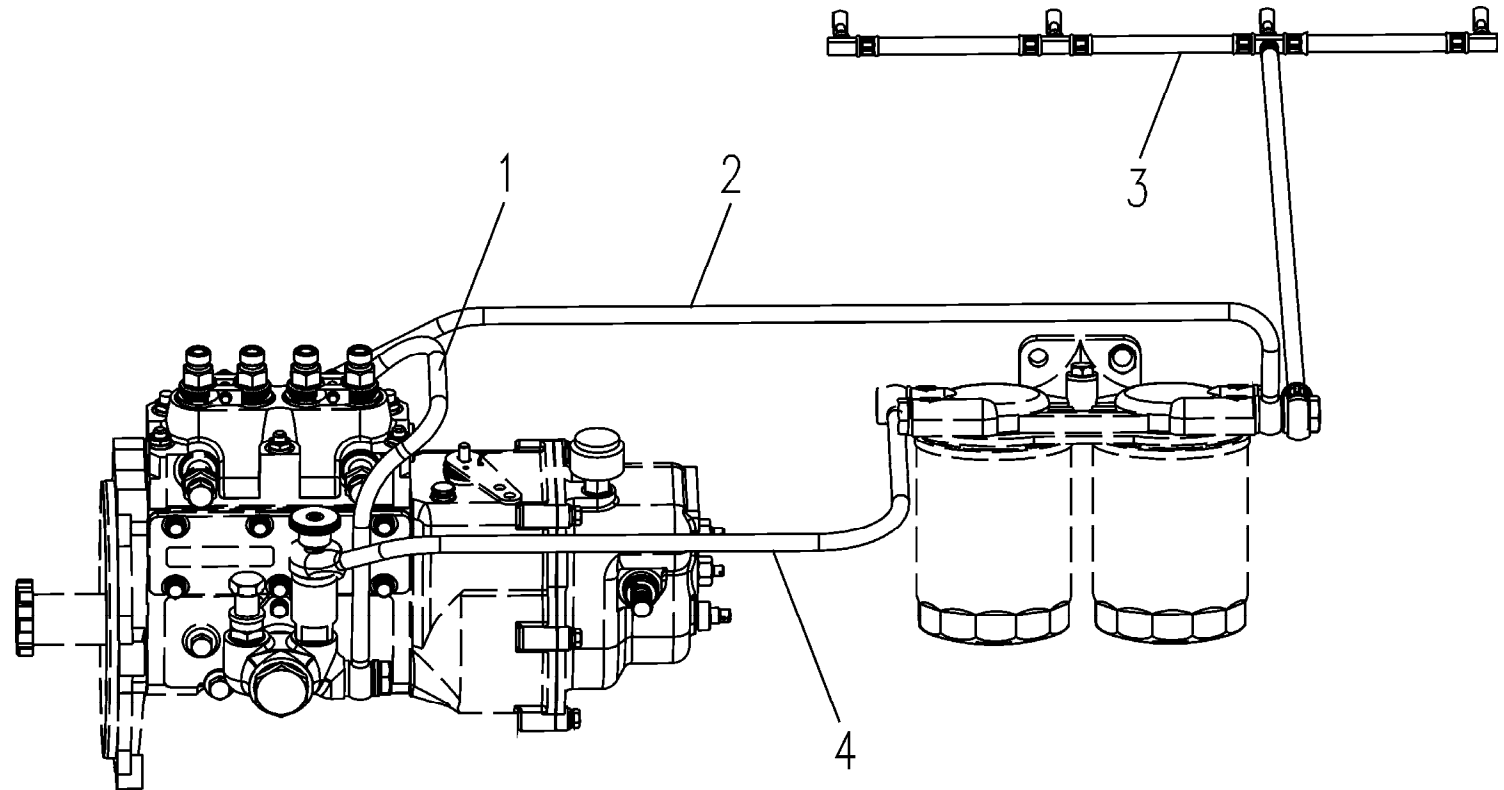
35 Fuel Low Pressure Pipes Installation Assembly (I)



35 Fuel Low Pressure Pipes Installation Assembly (I)

No.	Part Name	Drawing No.	QTY.	Remarks
1	Fuel return pipe assy,Injection PM pump	4PY.350500FE	1	
2	Fuel feed pipe assembly,from filter to injection pump	4PY.350200FE	1	
3	Fuel return pipe assy,injection pump	4RG12.350600BFE	1	
4	Fuel feed pipe assembly,from feed pump to filter	4PY.350100FE	1	
5	Clamp plate	4PY.350013FE	1	
6	Clamp plate	4PY.350011FE	1	

35 Fuel Low Pressure Pipes Installation Assembly (II)

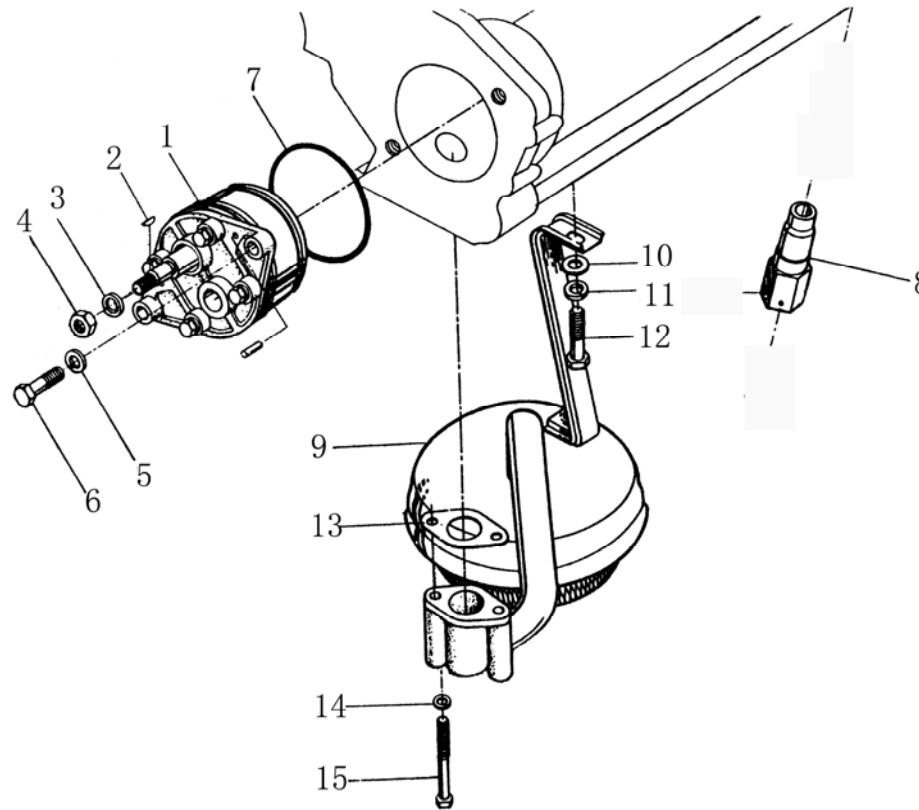


35 Fuel Low Pressure Pipes Installation Assembly (II)

No.	Part Name	Drawing No.	QTY.	Remarks
	Fuel low pressure pipes assembly	4RT3.350000	1	
1	Fuel return pipe assy,injection pump	RT350500A	1	
2	Fuel feed pipe assembly,from filter to injection pump	4RT73..350200FE	1	
3	Fuel return pipe assy,injection pump	4RG12.350600B	1	
4	Fuel feed pipe assembly,from feed pump to filter	4RT73.350100FE	1	

41 Oil Pump Installation Assembly

42 Oil Suction Strainer Assembly

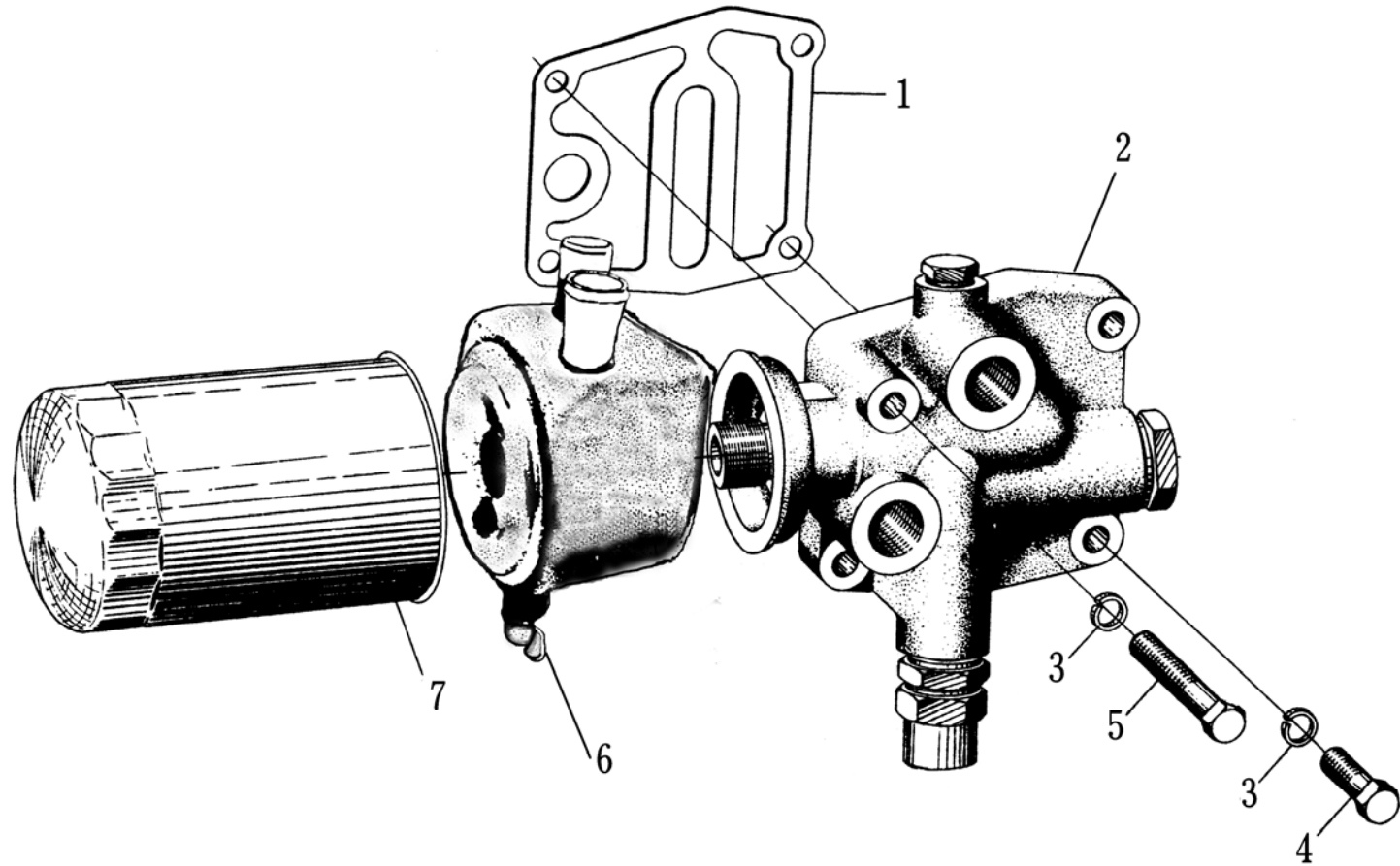


41 Oil Pump Installation Assembly

42 Oil Suction Strainer Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
1	Oil pump assembly	4RHZQ.410000	1	
2	Flat key C5×12	GB1096-79	1	
3	Spring washer 12	GB93-76	1	
4	Nut M12	GB52-76	1	
5	Spring washer 10	GB93-76	2	
6	Bolt M10×30	GB21-76	2	
7	O-rubber sealing ring	R410001	2	
8	Pressare relies valve	LR412100-2	1	
9	Oil saction strainer	4RG14.420100	1	
	Oil saction strainer	4RG1.420100FE	1	
	Oil saction strainer	L4R420100FE	1	
10	Spring washer 10	GB848-76	1	
11	Spring washer 10	GB93-76	1	
12	Bolt M10×20	GB21-76	1	
13	Gasket oil suction pipe flange	R420001	1	
14	Spring washer 8	GB93-76	2	
15	Bolt M8×25	GB21-76	2	

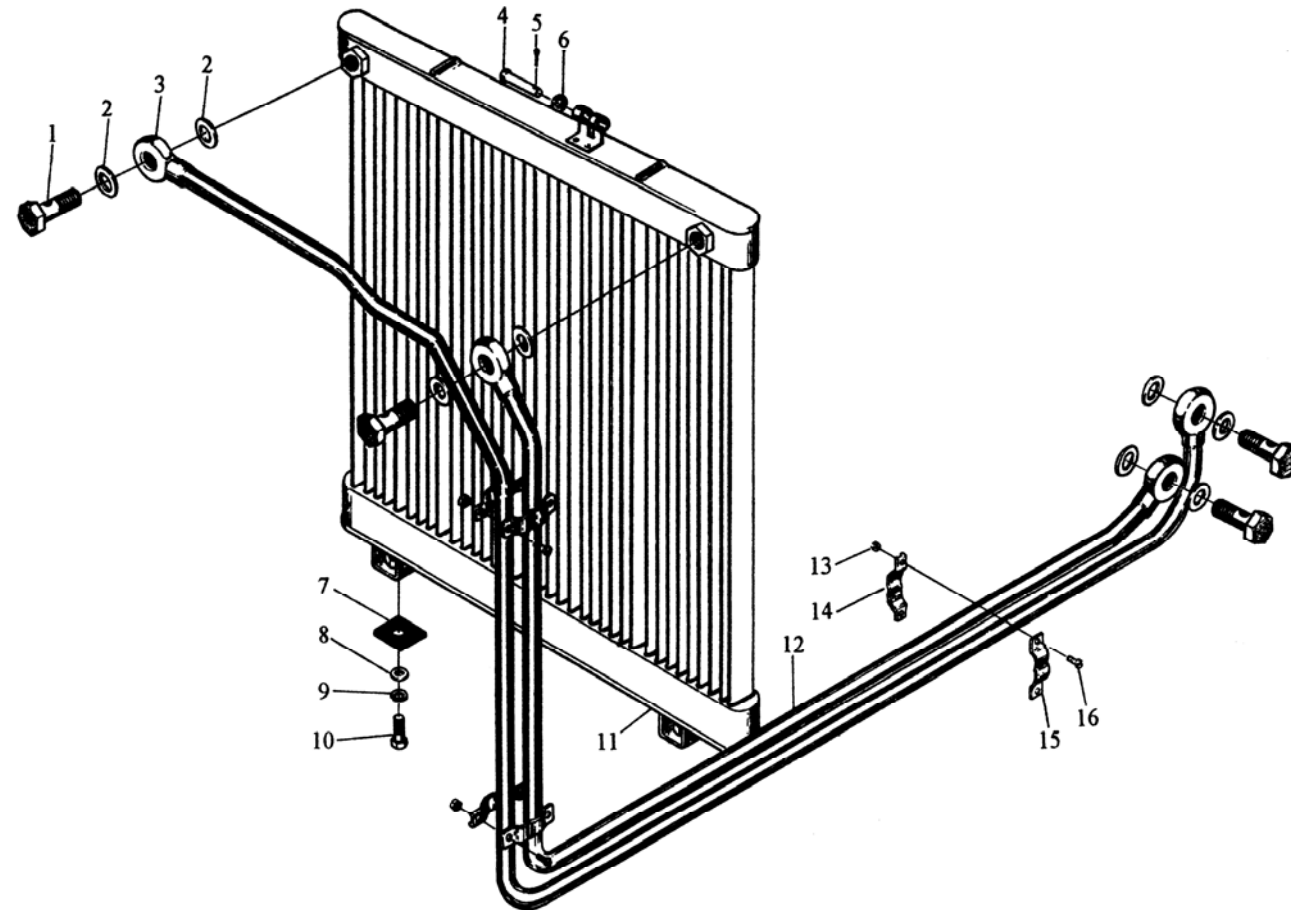
43 Oil Filter Assembly



43 Oil Filter Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Oil filter installation assembly	4RTF.4300AZ	1	
		3RTF.4300AZ	1	
1	Bottom gasket	R430001	1	
2	Oil filter bottom	4RTF430100-1	1	
		3RTF.430100	1	
3	Spring washer 10	GB93-76	4	
4	Bolt M10×40	GB22-76	3	
5	Bolt M10×80	GB22-76	1	
4 . 5	Bolt M10×30	GB22-76	4	
6	Oil cooler assembly	4RG22.450100-11	1	
7	Oil filter	JX1008L	1	

46 Oil Radiator Installation and Oil Line Assembly



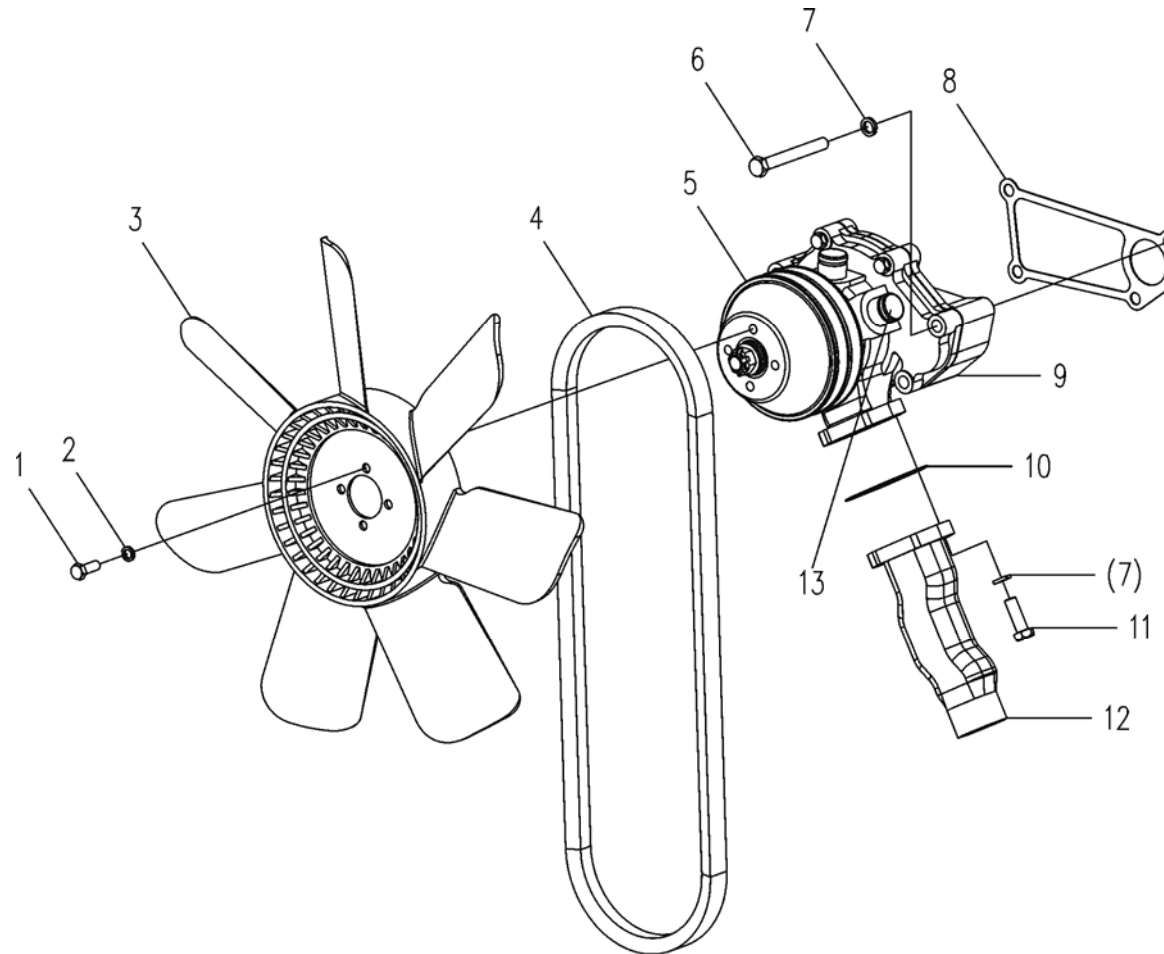
46 Oil Radiator Installation and Oil Line Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Oil radiator installation and oil line assembly	4RTF.460000	1	
1	Locking bolt	54 • 08 • 406	4	
2	Sealing ring	54 • 08 • 407	8	
3	Inlet pipe,oil radiator	4RTF460300	1	
4	Pin shaft 8×35	GB 882-76	1	
5	Pin 3×16	GB 91-76	1	
6	Spring washer 8	GB 95-76	1	
7	Rubber gasket	6RTF460001	2	
8	Washer 10	GB 95-76	2	
9	Spring washer 10	GB 93-76	2	
10	Bolt M10×25	GB 21-76	2	
11	Oil radiator assembly	6RTF460100	1	
12	Outlet pipe assembly,oil radiator	4RTF460200	1	
13	Nut M5	GB 39-76	6	
14	Upper clamp	4RTF460401	3	
15	Bottom clamp	4RTF460402	3	
16	Screw M5×14	GB 65-76	6	

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51 Water Pump Installation Assembly

52 Fan and Pulley Assembly

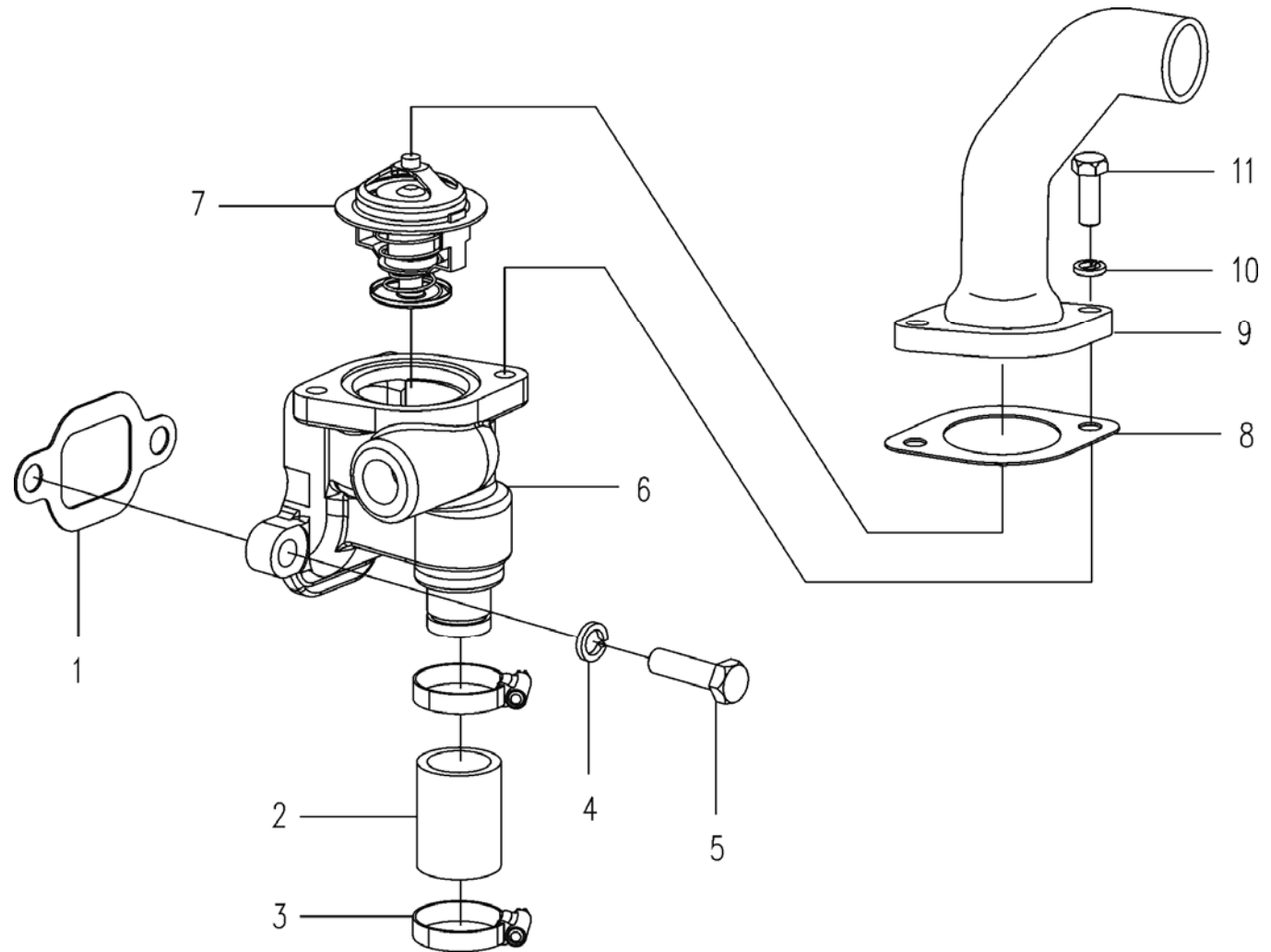


51 Water Pump Installation Assembly

52 Fan and Pulley Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Water pump installation assembly	6RTF.510000AZ	1	
	Fan and pulley assembly	4RT3.520000	1	
1	Bolt M8×20	GB/T5783-2000	4	
2	Spring washer 8	GB/T93-1987	4	
3	Fan assy	Z-450-64-42-7	1	
		F-450-28-52-7	1	
4	Belt AV13×1340	A1340	2	
5	Belt pulley,water pump	4R.520002	1	
		4RG1.520003	1	
6	Bolt M10×85	GB/T5782-2000	4	
7	Spring washer 10	GB/T93-1987	6	
8	Gasket water pump read cover	3R510007	1	
9	Water pump assembly	4RTF.510200	1	
		4RT60.510000	1	
		L4R510000	1	
10	Gasket water inlet pipe flange	6RTF.510002AZ	1	
11	Bolt M10×30	GB/T5783-2000	2	
12	Water inlet pipe	4RG1.510011	1	
13	Heating return water adaptor	5147324	1	

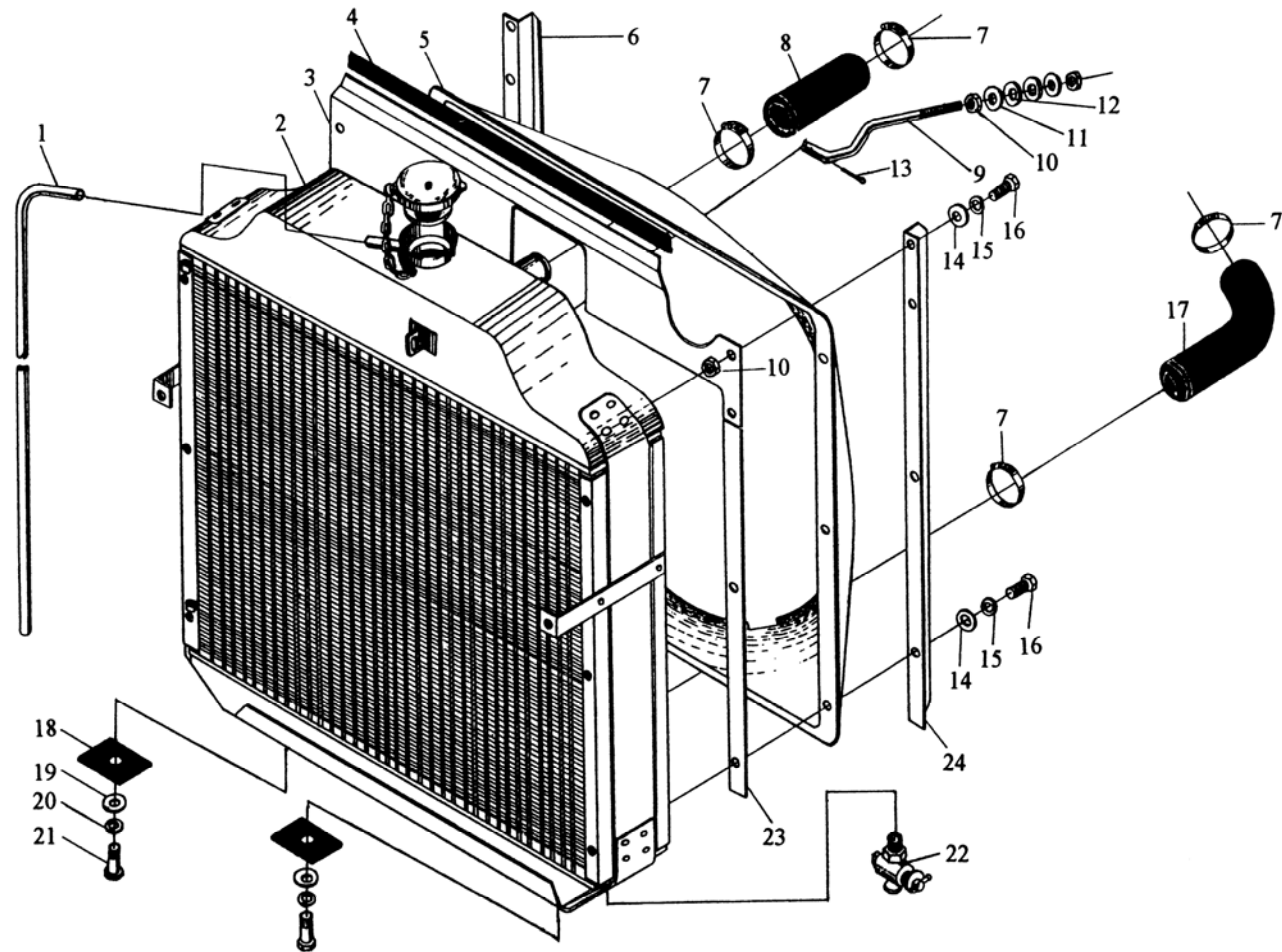
53 Thermostat Assembly



53 Thermostat Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Thermostat assembly	4RTF.530000	1	
1	Gasket, thermostat housing	4R.530004-1	1	
2	Rubber hose	4R530003	1	
3	Hoop	JK-1	2	
4	Spring washer 8	GB93-76	2	
5	Bolt M8×25	GB21-76-ZnD	2	
6-1	Housing assy, thermostat	4RTF.530101-1	1	
	Thermostat body	4RTF.530101	1	
	Bypass connector	R510102	1	
6-2	Housing assy, thermostat	4RT3.530101-1	1	
	Thermostat body	4RT3.530101	1	
	Bypass connector	R510102	1	
7	Thermostat	1039-76-X	1	
8	Gasket, thermostat cap	4R530002	1	
9	Cap, thermostat	4RTF.530001	1	
	Cap, thermostat	4RG12.530001	1	
	Cap, thermostat	4RG3.530001	1	
	Cap, thermostat	4RG8.530001	1	
10	Spring washer 10	GB93-76	2	
11	Bolt M10×35	GB21-76-ZnD	2	

54 Radiator Installation Assembly



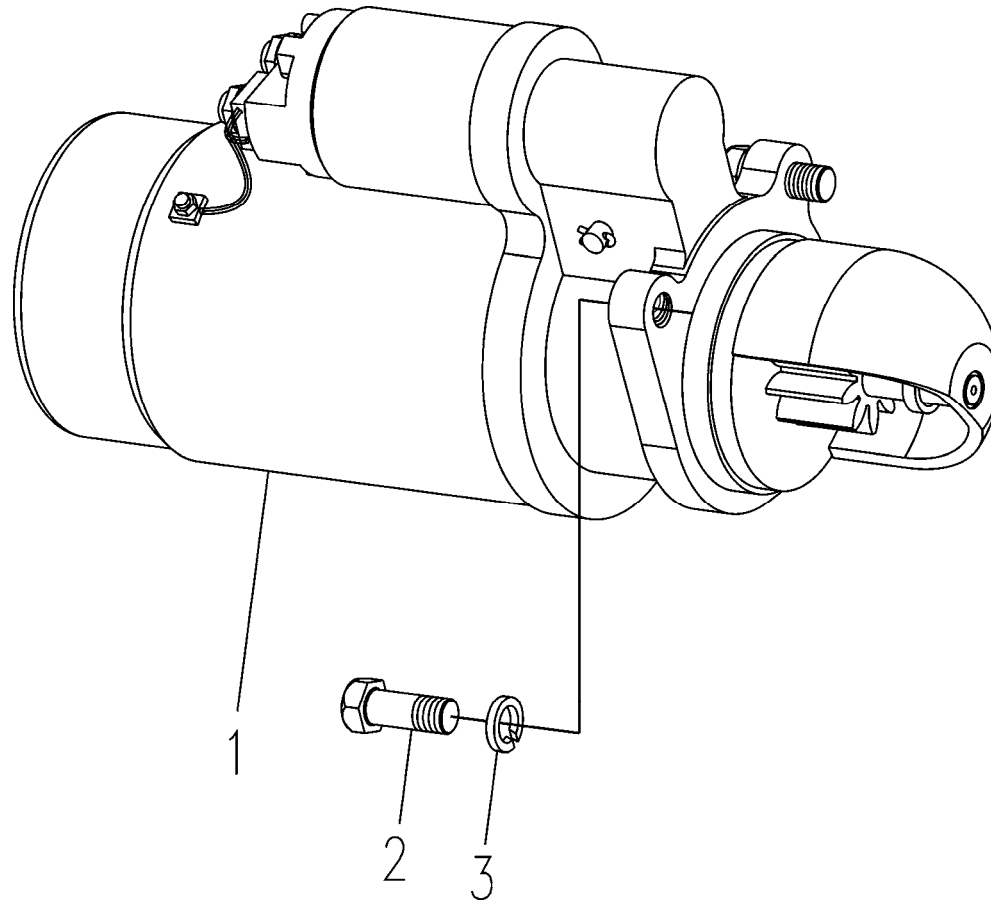
54 Radiator Installation Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Radiator installation assembly	4RTF·540000AZ	1	
1	Water drain hose	6RTF · 540001	1	
2	Radiator assembly	6RTF · 540000	1	
3	Wind protector	4RTF · 540004AZ	1	
4	Sealing strip	6RTF · 540005AZ	1	
5	Fan protect cage	4RTF · 540001AZ	1	
6	Right pressing plate	6RTF · 540007AZ	1	
7	Hoop,rubber hose	JK2X	4	
8	Water inlet rubber hose,radiator	4RTF · 540007AZ	1	
9	Pull rod,radiator	4RTF · 540009AZ	1	
10	Nut M8	GB 52-76	4	
11	Washer 8	GB 849-88	2	
12	Washer 8	GB 850-88	2	
13	Cotter pin3×16	GB 91-76	1	
14	Washer 8	GB 95-76-Zn · D	8	
15	Spring washer 8	GB 93-76	8	
16	Bolt M8×12	GB 21-76-Zn · D	8	
17	Water outlet pipe,radiator	4RTF · 540006AZ	1	
18	Rubber gasket	6RTF · 540008AZ	2	
19	Washer 10	GB 95-76-Zn · D	2	
20	Spring washer 10	GB 93-76	2	
21	Bolt M10×25	GB 21-76-Zn · D	2	

54 Radiator Installation Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
22	Drain cock assembly 3/8"	Q/SB152-64	1	
23	Pad	6RTF • 540002AZ	2	
24	Left pressing plate	6RTF • 540003AZ	1	

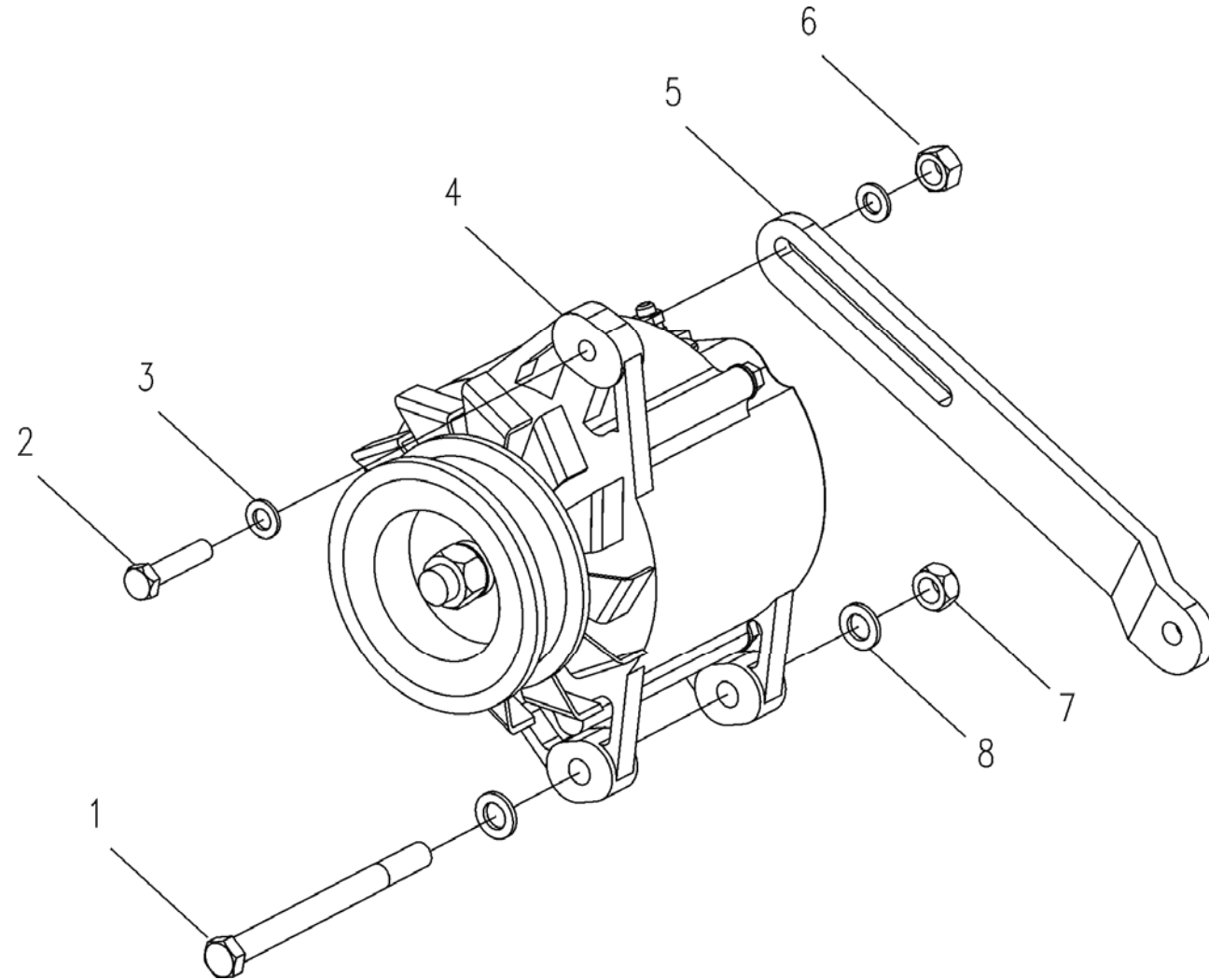
61 Starter Installation Assembly



61 Starter Installation Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Starter installation assembly	4RT3.610000	1	
1	Starter	QD141G-000WX	1	
2	Bolt M12×35	GB/T21-1987	3	
3	Spring washer 12	GB/T93-1987	3	

62 Alternator and Bracket Assembly



62 Alternator and Bracket Assembly

No.	Part Name	Drawing No.	QTY.	Remarks
	Alternator and bracket assembly	6RTF.620000	1	
1	Bolt M10×100	GB899-76-ZnD	1	
2	Bolt M8×25	GB21-76.8.8-ZnD	1	
3	Spring washer 8	GB/T848-1987	2	
4	Alternator	JFZ2722Y	1	
		JFZ1512Y	1	
5	Adjusting bracket,alternator	6RTF.620001B	1	
		4RT11.620001	1	
		4RG12.620001-1	1	
6	Nut M8	GB52-76-ZnD	1	
7	Nut M10	GB52-76-ZnD	1	
8	Spring washer 10	GB848-76ZnD	2	



EAST WIND™



Midway Sales Australia
252 Eastern Service Road
Burpengary Qld 4505
Australia

Email: midway@midwaysales.com.au

Website: www.midwaysales.com.au

phone: 1300 TRACTOR

Fax: (07)3888 3180