



Engine Parts Manual

Kubota® Diesel Engine

V2403-M-DI-E3B

Jacobsen AR522™



WARNING

Warning: If incorrectly used, this machine can cause severe injury. Those who use and maintain this machine should be trained in its proper use, warned of its dangers, and must read the entire manual before attempting to set up, operate, adjust, or service the machine.

FOREWORD

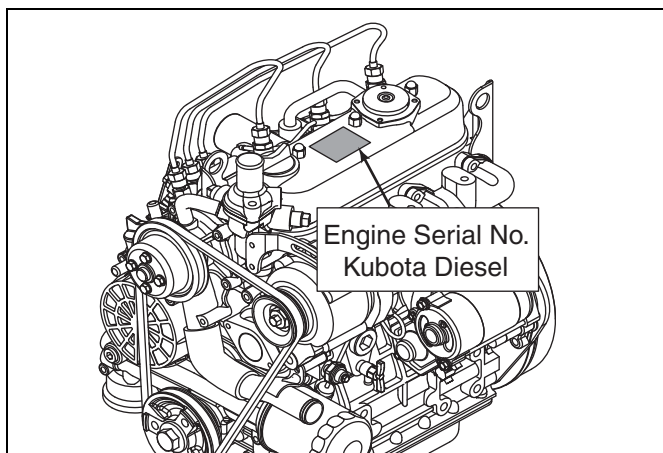
This manual contains a parts list for your Kubota Engine.

The Engine Serial Number for the Kubota engine is on a plate located on the valve cover.

Record the Engine Serial Number below for easy reference.

Engine Serial Number: _____

If additional information is needed, contact your Jacobsen Dealer.



Suggested Stocking Guide

To Keep your Equipment fully operational and productive, Jacobsen suggests you maintain a stock of the more commonly used maintenance items. We have included part numbers for additional support materials and training aids.

To order any of the following material:

1. Write your full name and complete address on your order form.

2. Explain where and how to make shipment:

☐ UPS

☐ Regular Mail

☐ Overnight

☐ 2nd Day

3. Order by the quantity desired, the part number, and the description of the part.

4. Send or bring the order to your authorized Jacobsen Dealer.

Service Parts

Qty.	Part No.	Description	Qty.	Part No.	Description
	4113986	Cartridge, Oil Filter		4289810	Lower Gasket Kit
	557619	Element, Fuel Filter		4289811	Upper Gasket Kit
	4289829	V-Belt, 39 In.			

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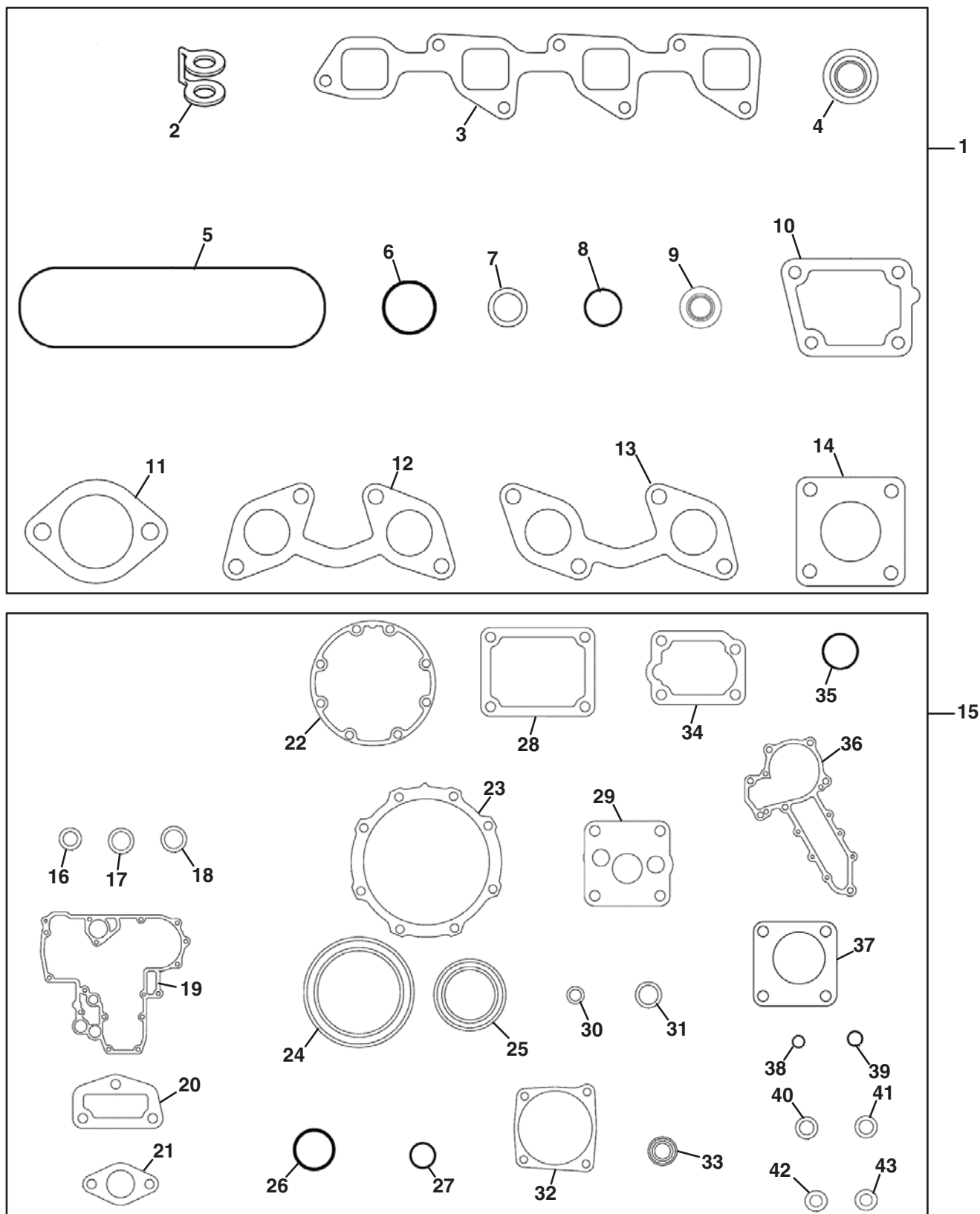
Proposition 65 Warning

This product contains or emits chemicals known to State of California to cause cancer and birth defects or other reproductive harm.

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1.1 Gasket Kit

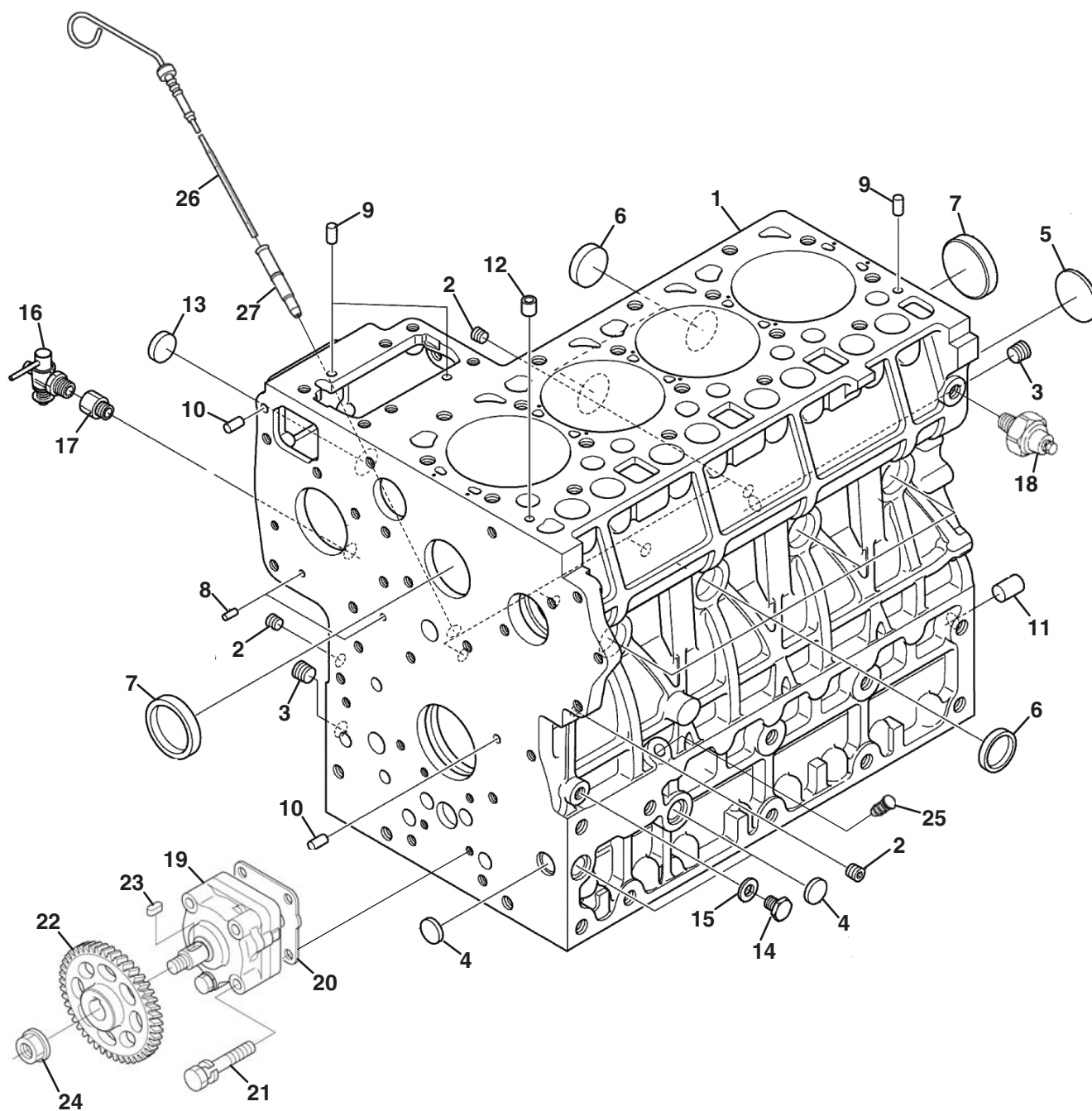
Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4289811	1	Kit Gasket, Upper	
2	4138037	4	• Gasket, Overflow Pipe	See 16.1
3	4134390	1	• Gasket, In-manifold	See 21.1
4	553030	8	• Seal, (Valve Stem)	See 5.1
5	4134208	1	• Gasket, Head Cover	See 6.1
6	4134211	1	• O-ring, Oil Filler Plug	See 6.1
7	4251732	4	• Gasket, Nozzle Holder	See 16.1
8	2809954	4	• O-ring, Nozzle Holder	See 16.1
9	N/S	1	• Washer, Seal	Not used on this engine
10	4134364	1	• Gasket, Water Flange	See 19.1
11	4134370	1	• Gasket, Thermostat	See 19.1
12	4134393	1	• Gasket, Ex-manifold	See 21.1
13	4134392	1	• Gasket, Ex-manifold	See 21.1
14	4134436	1	• Gasket, Muffler	See 22.1
15	4289810	1	Kit Gasket, Lower	
16	N/S	1	• Gasket	Not used on this engine
17	N/S	1	• Packing	Not used on this engine
18	2500811	2	• Gasket, Oil Drain Plug	See 3.1
19	4289818	1	• Gasket, Gear Case	See 7.1
20	4134624	1	• Gasket, Return Flange	See 7.1
21	N/S	1	• Gasket, Fuel Pump	Not used on this engine
22	4134224	1	• Gasket, Bearing Case	See 8.1
23	4134226	1	• Gasket, Case Cover	See 8.1
24	4289805	1	• Seal, Rear Crankshaft Oil	See 8.1
25	556976	1	• Seal, Front Crankshaft Oil	See 10.1
26	594367	1	• O Ring, Crankshaft	See 10.1
27	4134178	1	• O Ring, Oil Pickup Filter	See 3.1
28	553163	1	• Gasket, Pump Cover	See 12.1
29	4134218	1	• Gasket, Oil Pump	See 2.1
30	553143	2	• Gasket, Adjustment Bolt	See 15.1
31	N/S	2	• Gasket	Not used on this engine
32	4198321	1	• Gasket, Fuel Camshaft Cover	See 11.1
33	4198212	2	• Seal, Governor Lever Oil	See 15.1
34	4134267	2	• Gasket, Plate	See 12.1 and See 15.1
35	4134271	1	• O-ring, Stop Solenoid	See 12.1
36	4134378	1	• Gasket, Water Pump	See 20.1
37	4134625	1	• Gasket, Hour Meter	See 7.1
38	N/S	1	• O Ring	Not used on this engine
39	4134260	1	• Ring, Adjustment Bolt	See 12.1
40	4134261	1	• Gasket, Idling Apparatus	See 12.1
41	552958	1	• Gasket, Plug	See 2.1
42	4289858	2	• Gasket, Eye Joint	See 13.1
43	4289802	2	• Gasket, Bleeder Screw	See 13.1

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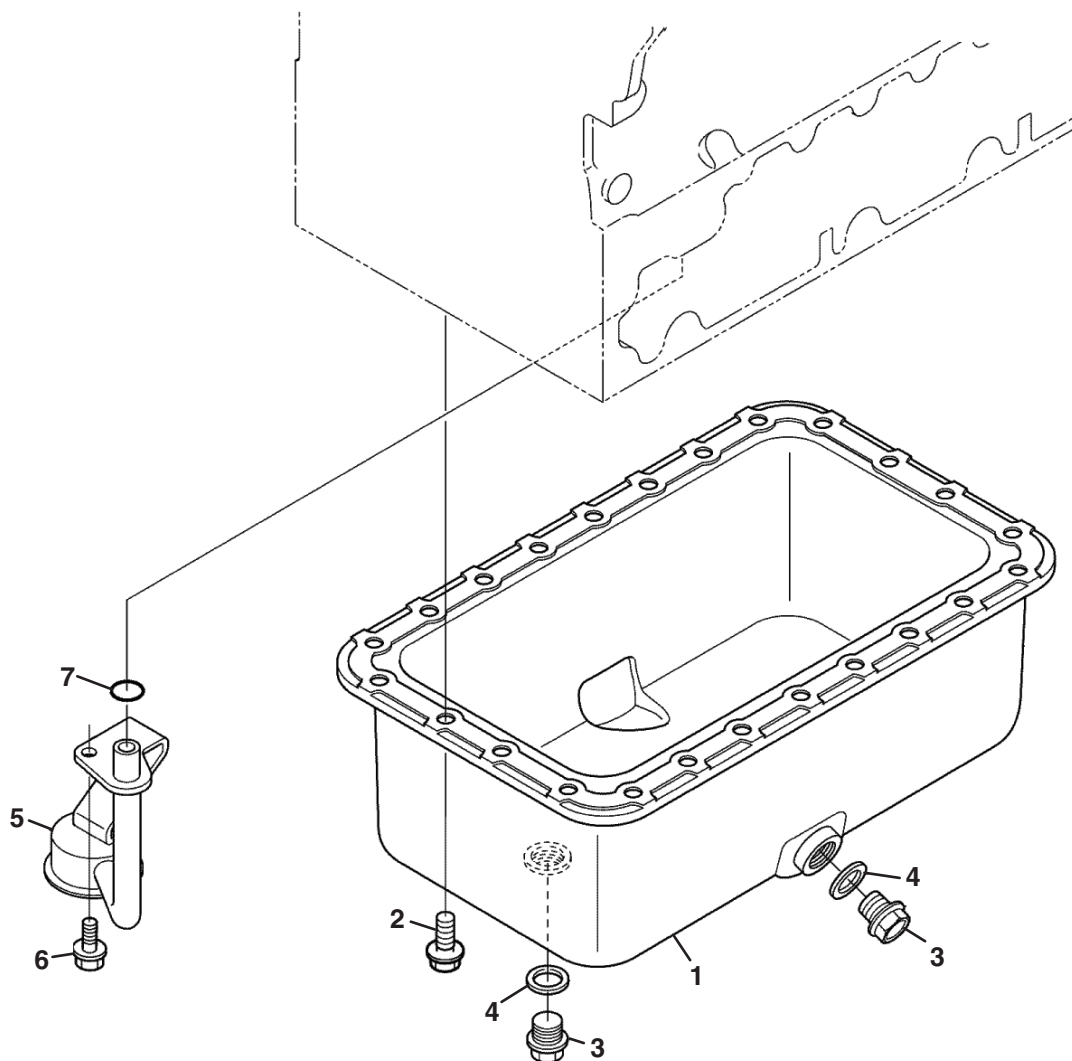
2.1 Crankcase



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4289817	1	Comp. Crankcase	
2	552950	6	• Plug	
3	552951	2	• Plug	
4	5001308	3	• Plug, Expansion	
5	2500877	1	• Plug, Expansion	
6	552952	6	• Cap, Sealing	
7	552953	2	• Cap, Sealing	
8	594368	2	• Pin, Straight	
9	550423	3	• Pin, Straight	
10	594369	2	• Pin, Straight	
11	594370	1	• Pin, Straight	
12	552954	1	• Pin, Pipe	
13	5001861	1	• Cap, Sealing	
14	4289854	1	Plug	
❑ 15	552958	1	Gasket	
16	594622	1	Cock, Drain	
17	552955	1	Joint, Drain Cock	
18	554018	1	Switch, Oil	
19	4198174	1	Assembly Pump, Oil	
❑ 20	4134218	1	Gasket, Oil Pump	
21	5001875	4	Bolt, Sems	
22	4289855	1	Gear, Oil Pump Drive	
23	550427	1	Key, Feather	
24	556915	1	Nut	
25	2812013	1	Plug, Oil Gauge	
26	4289870	1	Gauge, Eng. Oil	
27	4111662	1	Guide, Oil Gauge	
❑	Included in Lower Gasket Kit 4289810 See 1.1			

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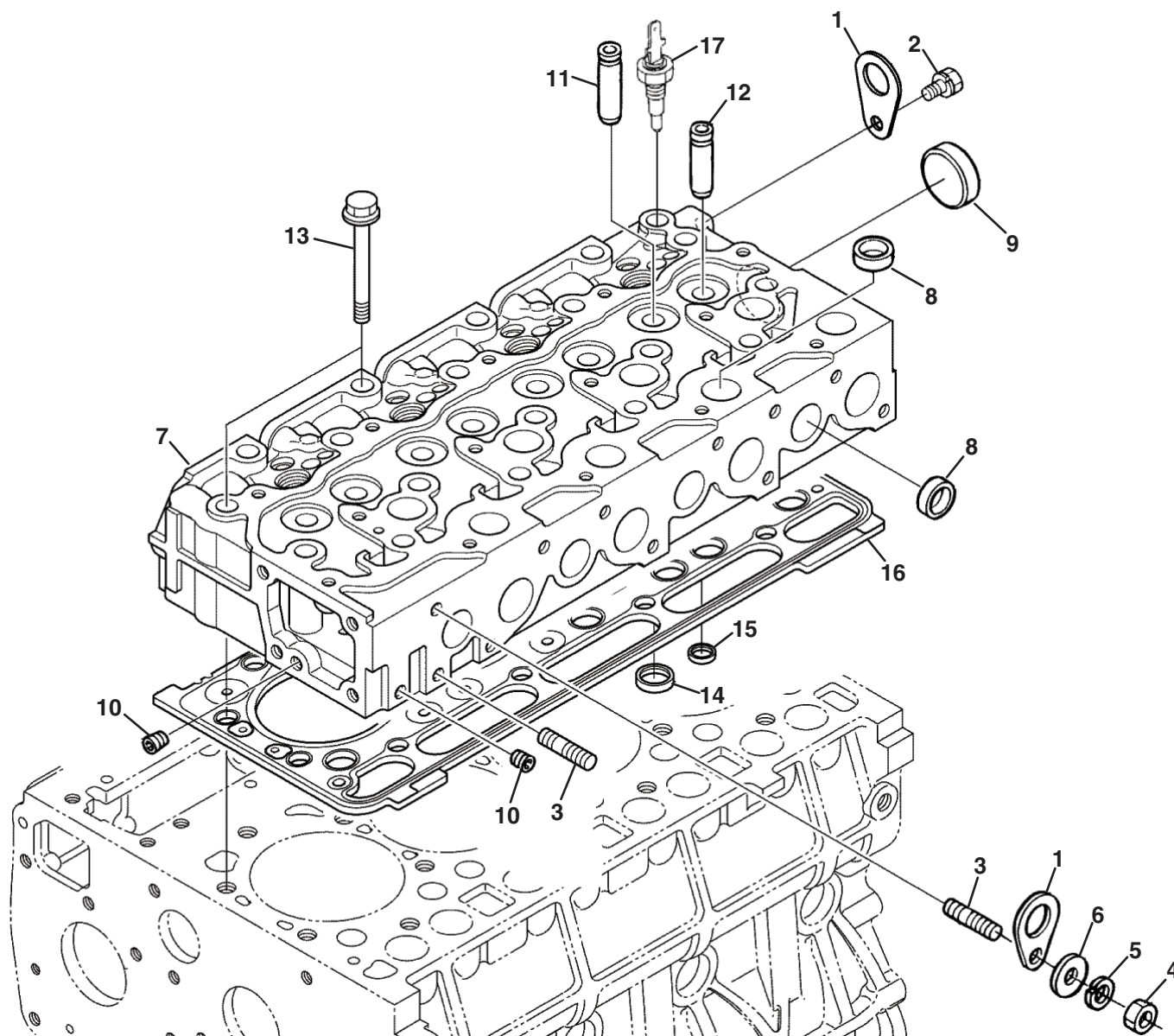
3.1 Oil Pan



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4.1 Cylinder Head

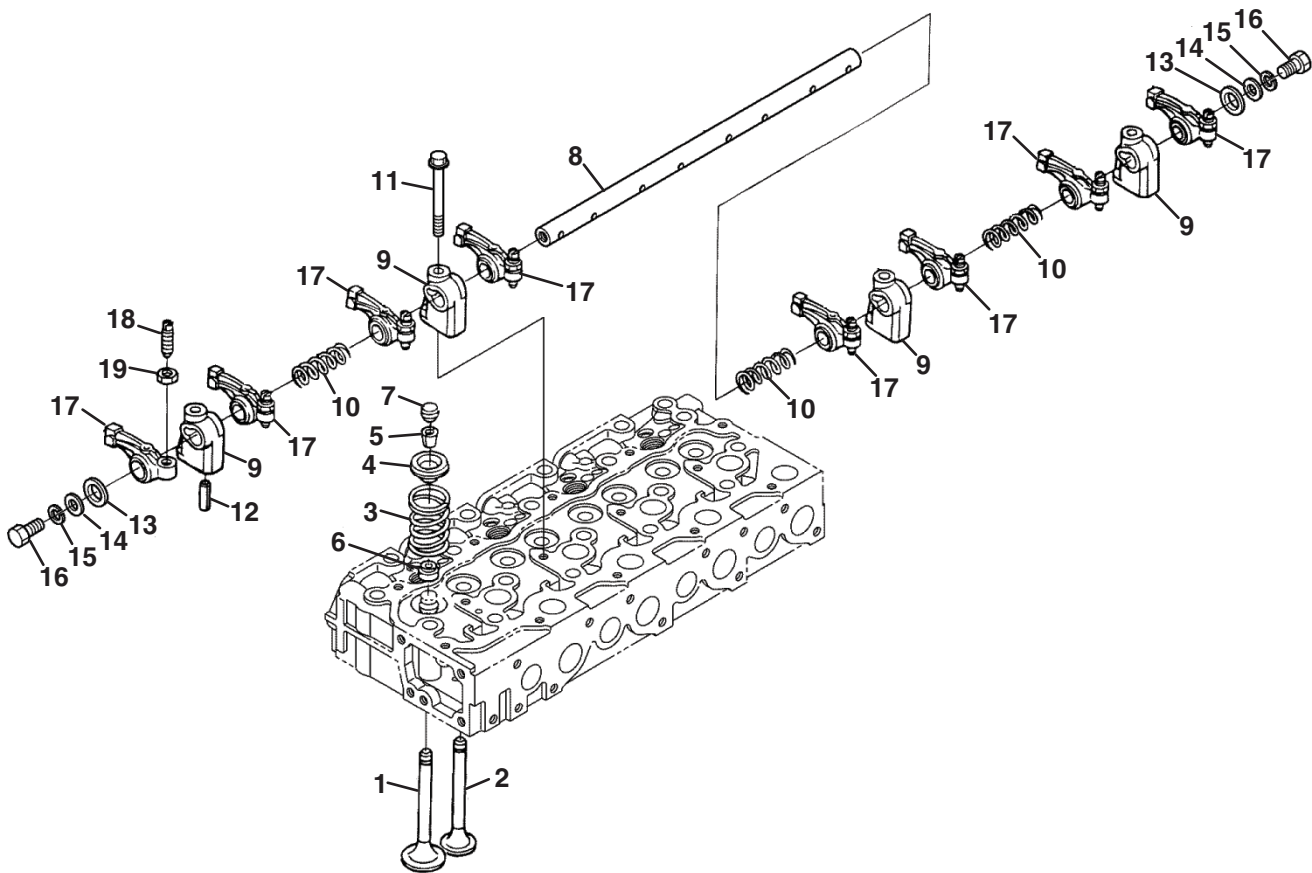
Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	553934	2	Hook, Engine	
2	4289891	1	Bolt, Sems	
3	4198438	2	Stud	
4	550398	1	Hex Nut	
5	550409	1	Washer, Spring Lock	
6	550380	1	Washer, Plain	
7	4289836	1	Cylinder Head	
8	552976	12	• Cap, Sealing	
9	552977	1	• Cap, Sealing	
10	552978	2	• Plug	
11	4289852	4	• Guide, Inlet Valve	
12	556927	4	• Guide, Exhaust Valve	
13	556928	18	• Bolt, Cylinder Head	
14	4289807	4	• Seat, Inlet Valve	
15	4289806	4	• Seat, Exhaust Valve	
16	4198328	1	Gasket, Cylinder Head	1.15mm
16	4198329	1	Gasket, Cylinder Head	1.20mm
16	4198330	1	Gasket, Cylinder Head	1.25mm
16	4198331	1	Gasket, Cylinder Head	1.30mm
16	4198332	1	Gasket, Cylinder Head	1.35mm
17	2810959	1	Switch, Thermo	

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5.1 Valve and Rocker Arm

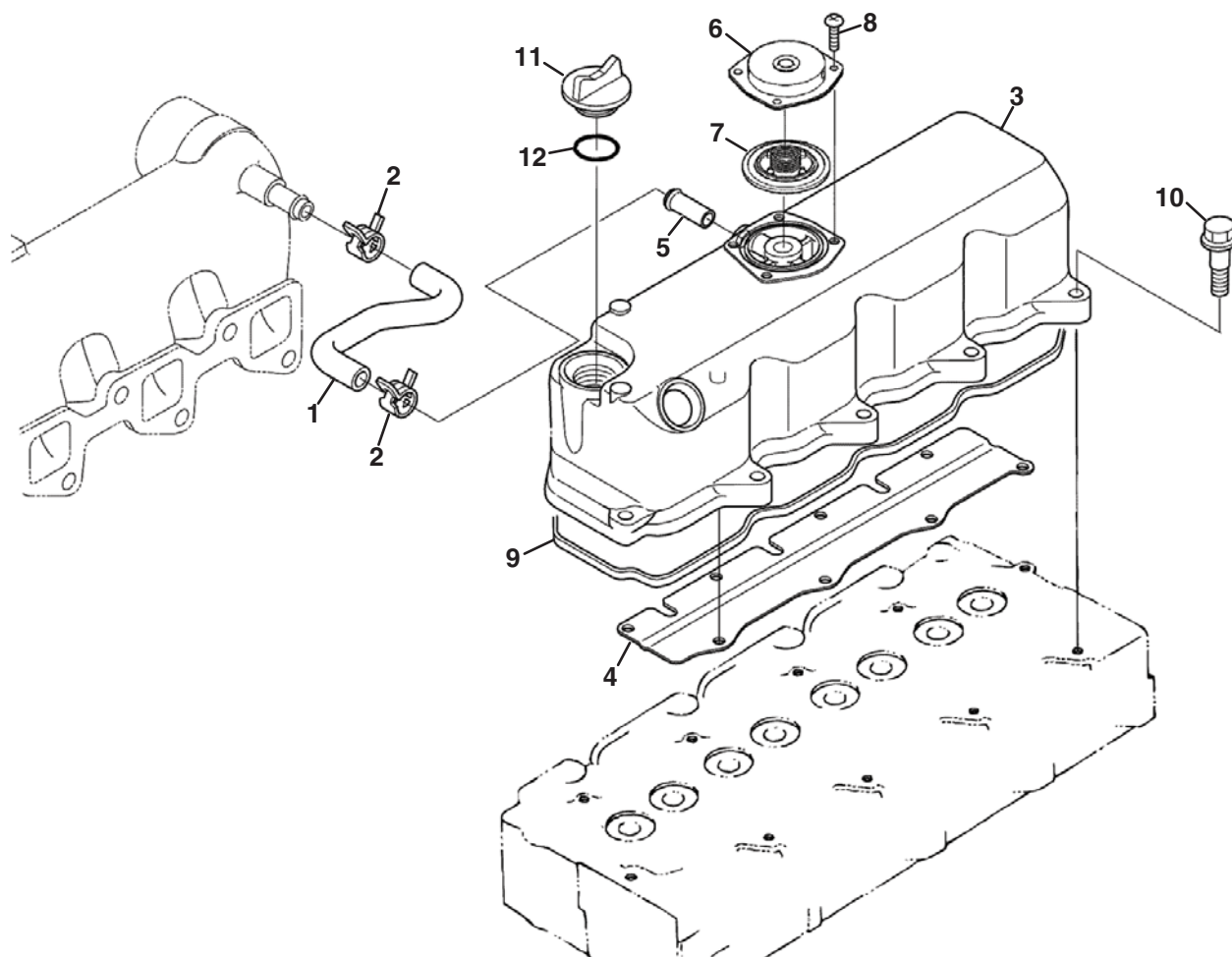


Item	Part No.	Qty.	Description	Serial Numbers/Notes
○	1	4	Valve, Inlet	Set
	2	4	Valve, Exhaust	
	3	8	Spring, Valve	
	4	8	Retainer, Valve Sp.	
	5	8	Collet, Valve Spring	
	6	8	Seal (Valve Stem)	
	7	8	Cap, Valve	
	8	1	Shaft, Rocker Arm	
	9	4	Bracket, Rocker Arm	
	10	3	Spring, Rocker Arm	
	11	4	Bolt, Flange	
	12	1	Spring Pin	
	13	2	Washer, R-arm.shaft	
	14	2	Washer, Plain	
	15	2	Washer, Spring Lock	
	16	2	Hex Bolt	
	17	8	Arm, Rocker, Assembly	
	18	8	• Screw, Adjusting	
	19	8	• Nut	
○	Included in Upper Gasket Kit 4289811 See 1.1			

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6.1 Head Cover

Serial No. All

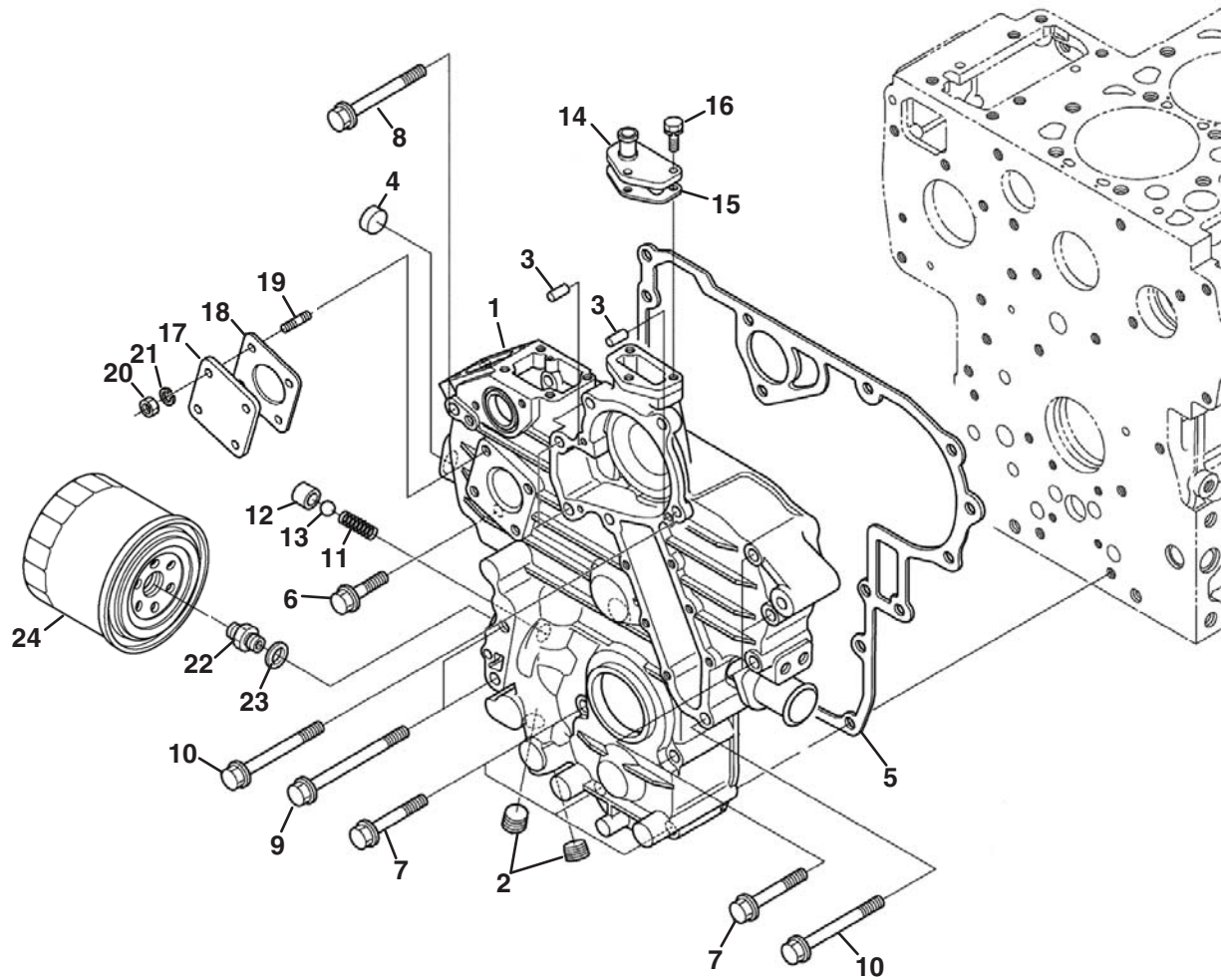


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4289845	1	Tube, Breather	
2	4134368	2	Clamp, Hose	
3	4198340	1	Assembly Cover, Cyl. Head	
4	N/S	1	• Baffle	
5	4134204	1	• Pipe, Water Return	
6	4145911	1	• Cover, Breather	
7	4145912	1	• Comp Valve, Breather	
8	4165421	4	• Screw, Pan Head	
○ 9	4134208	1	Gasket, Head Cover	
10	4134209	10	Bolt	
11	4134210	1	Plug, Oil Filler	
○ 12	4134211	1	O Ring	
○	Included in Upper Gasket Kit 4289811 See 1.1			

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7.1 Gear Case

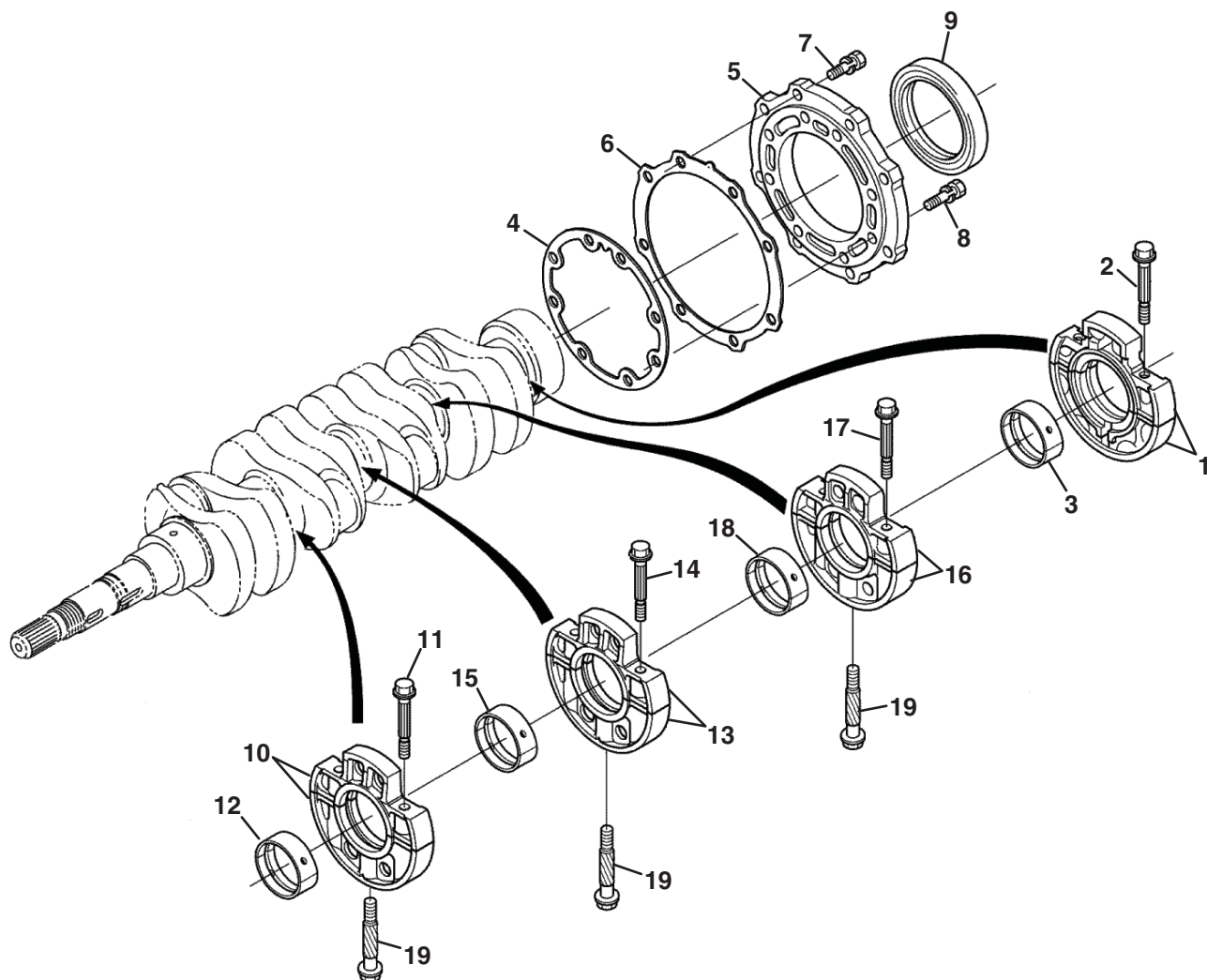
Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4198388	1	Comp. Case Gear	
2	5001255	2	Plug	
3	594369	2	Pin, Straight	
4	4137886	1	Cap, Sealing	
❑ 5	4289818	1	Gasket, Gear Case	
6	4137901	1	Bolt, Flange	
7	4198240	7	Bolt, Flange	
8	4137829	1	Bolt, Flange	
9	4198361	2	Bolt, Flange	
10	4198161	4	Bolt, Flange	
11	552997	1	Spring	
12	552998	1	Seat, Valve	
13	594378	1	Ball	
14	552999	1	Flange, Water Return	
❑ 15	4134624	1	Gasket, Return Flange	
16	550364	3	Bolt, Sems	
17	553004	1	Cover	
❑ 18	4134625	1	Gasket, Hour Meter	
19	553003	4	Stud	
20	550395	4	Hex Nut	
21	550408	4	Washer, Spring Lock	
22	4198237	1	Joint, Pipe	
23	4198341	1	Collar, Valve Seat	
24	4113986	1	Cartridge, Oil Filter	
❑	Included in Lower Gasket Kit 4289810 See 1.1			

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8.1 Main Bearing Case

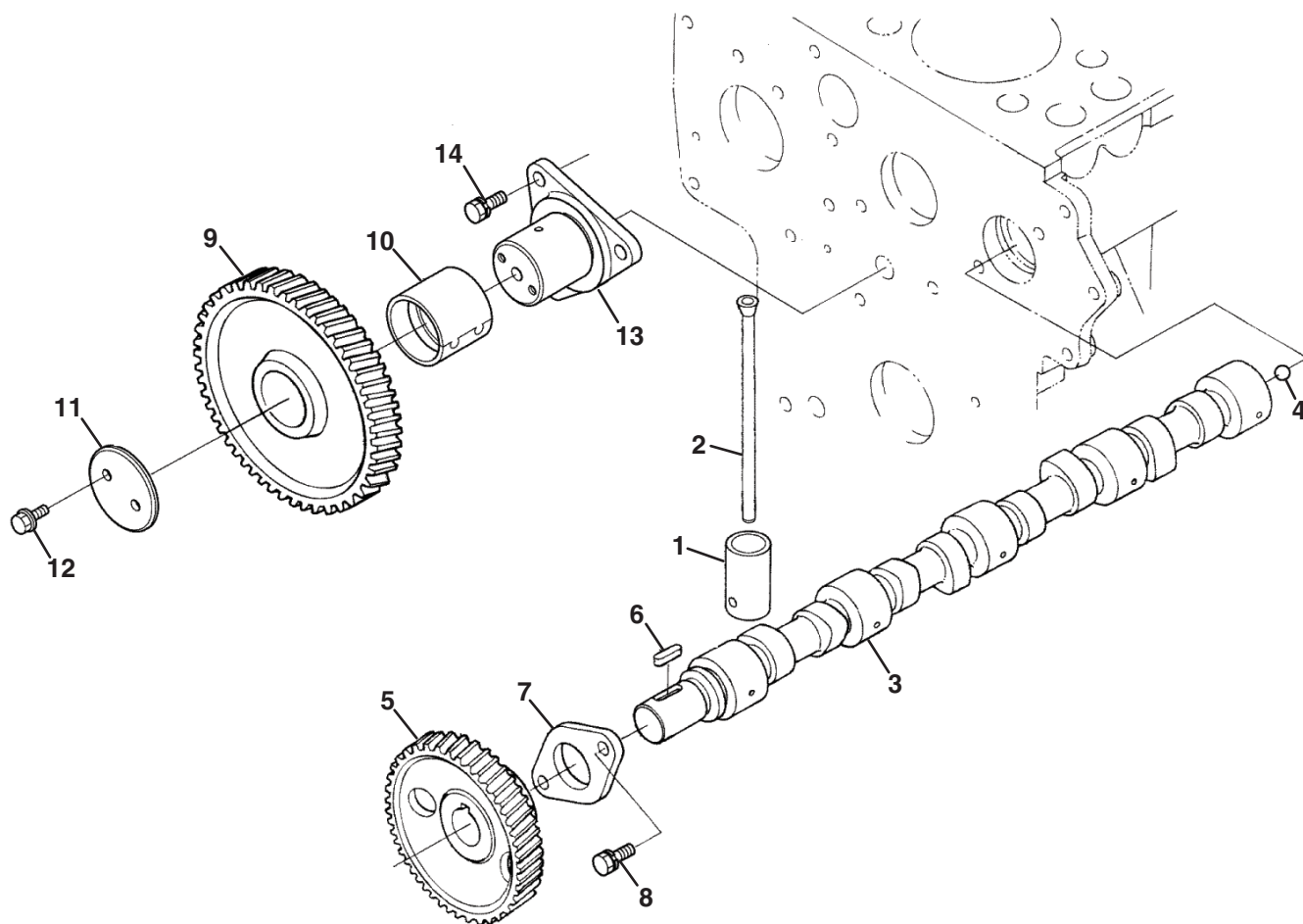


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4198242	1	Assembly Brg. Case, Wheel	
2	4134220		• Bolt, Bearing Case 2	
● 3	4134221	1	• Metal, Crankshaft	STD Set
◆ 3	4134222	1	Metal, Crankshaft	-0.20mm Set
▲ 3	4134223	1	Metal, Crankshaft	-0.40mm Set
□ 4	4134224	1	Gasket, Bearing Case	
5	4134225	1	Cover, Bearing Case	
□ 6	4134226	1	Gasket, Case Cover	
7	594331	8	Bolt, Sems	
8	594332	8	Bolt, Sems	
□ 9	4289805	1	Seal, Oil	
10	4198301	1	Assembly Brg. Case, Main	
11	4134220	2	• Bolt, Bearing Case	
● 12	4134221	1	• Metal, Crankshaft	STD Set
◆ 12	4134222	1	Metal, Crankshaft	-0.20mm Set
▲ 12	4134223	1	Metal, Crankshaft	-0.40mm Set
13	4198302	1	Assembly Brg. Case, Main	
14	4134220	2	• Bolt, Bearing Case	
● 15	4134221	1	• Metal, Crankshaft	STD Set
◆ 15	4134222	1	Metal, Crankshaft	-0.20mm Set
▲ 15	4134223	1	Metal, Crankshaft	-0.40mm Set
16	4198303	1	Assembly Brg. Case, Main	
17	4134220	2	• Bolt, Bearing Case	
● 18	4134221	1	• Metal, Crankshaft	STD Set
◆ 18	4134222	1	Metal, Crankshaft	-0.20mm Set
▲ 18	4134223	1	Metal, Crankshaft	-0.40mm Set
19	556944	3	Bolt, Bearing Case	
●	4198367	1	Kit Metal, STD Engine	Includes Items marked ●
◆	4198368	1	Kit Metal, -0.20mm/+0.20mm Engine	Includes Items marked ◆
■	4198369	1	Kit Metal, -0.40mm/+0.40mm Engine	Includes Items marked ■
□	Included in Lower Gasket Kit 4289810 See 1.1			

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9.1 Camshaft and Idle Gear Shaft

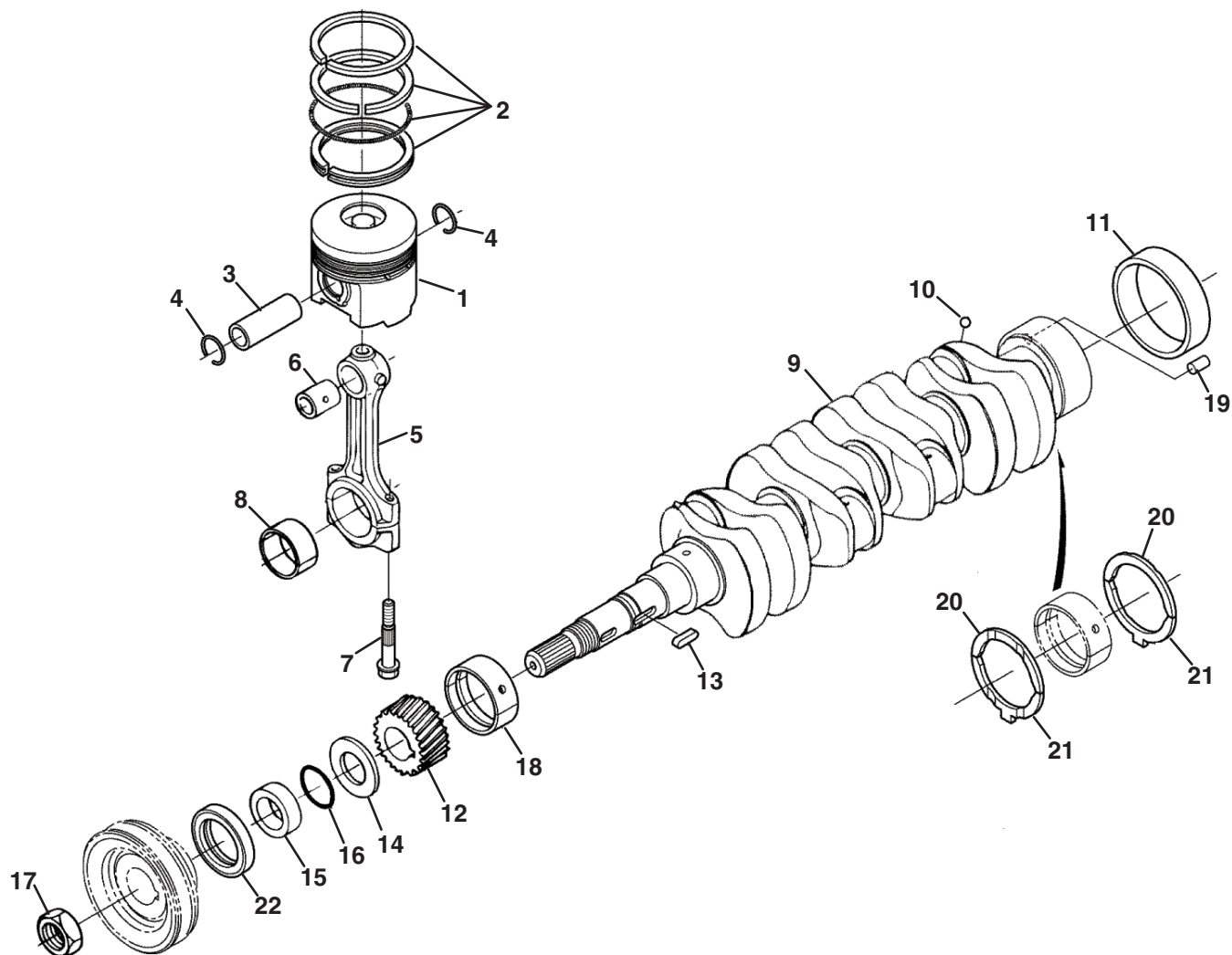
Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	557322	8	Tappet	
2	4198304	8	Push Rod	
3	4289839	1	Assembly Camshaft	
4	2500953	1	• Ball 1/4	
5	4134233	1	• Gear, Camshaft	
6	594374	1	• Key, Feather	
7	553068	1	• Stopper, Camshaft	
8	550377	2	Bolt, Sems	
9	4159665	1	Comp. Gear, Idle	
10	4134234	1	• Bush, Idle Gear	
11	4289868	1	Collar, Idle Gear	
12	5003269	2	Bolt, Flange	
13	4134440	1	Shaft, Idle Gear	
14	550377	3	Bolt, Sems	

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10.1 Piston and Crankshaft

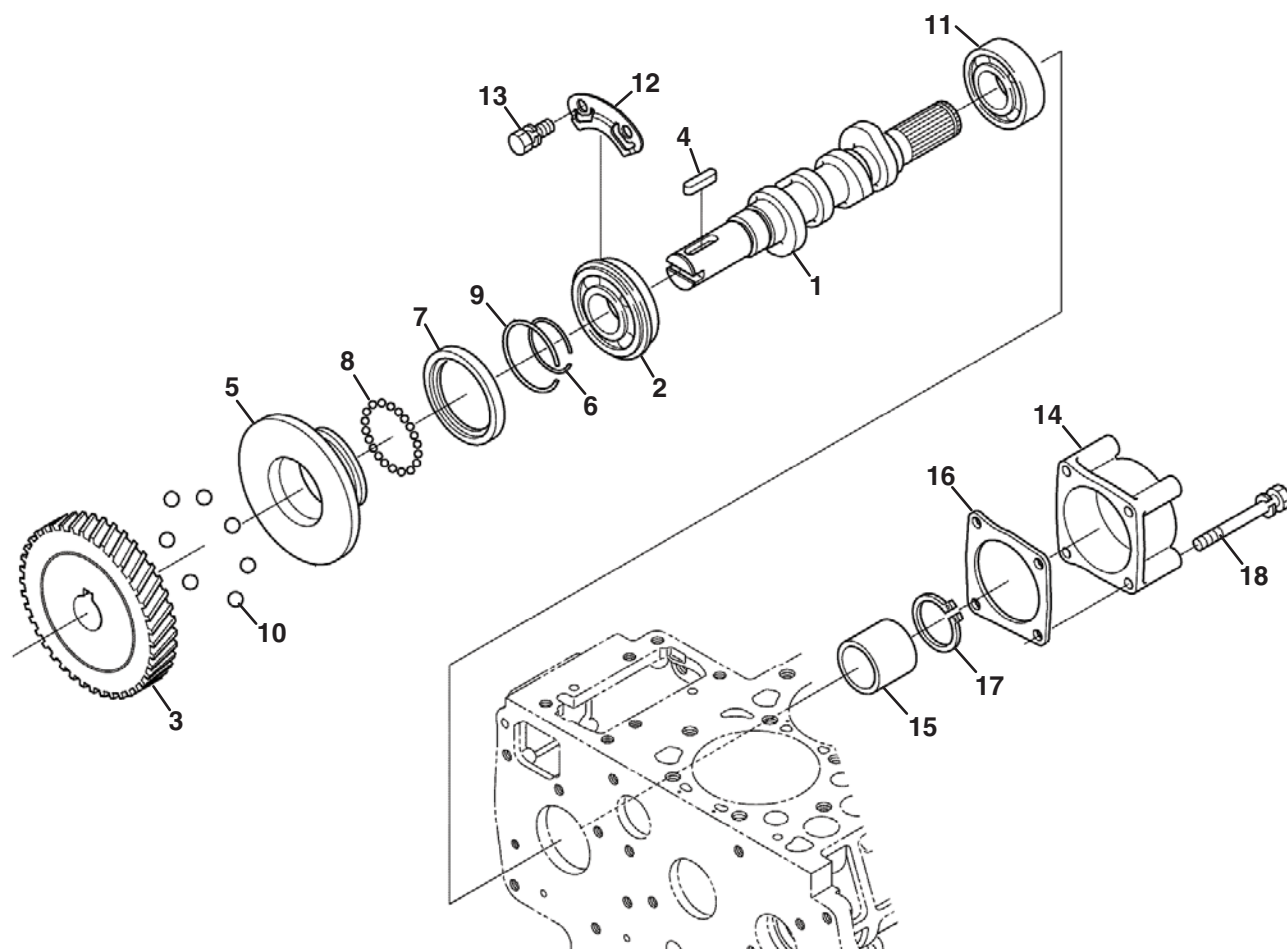


Item	Part No.	Qty.	Description	Serial Numbers/Notes
★ 1	4289846	4	Piston	STD
▲ 1	4289847	4	Piston	+0.25mm
★ 2	4289820	4	• Assembly Piston Ring	STD
▲ 2	4289821	4	• Assembly Piston Ring	+0.25mm
★▲ 3	556964	4	• Pin, Piston	
★▲ 4	4159662	8	• Cir Clip, Internal	
5	556966	4	Rod, Connecting, Assembly	
★▲ 6	556967	4	• Bush, Piston Pin	
7	557331	8	• Bolt, Connecting Rod	
● 8	556968	4	• Metal, Crankpin	STD SET
◆ 8	556969	4	Metal, Crankpin	-0.20mm SET
■ 8	556970	4	Metal, Crankpin	-0.40mm SET
9	4289835	1	Comp. Crankshaft	
10	2500953	4	• Ball 1/4	
11	553095	1	• Bush, Crankshaft	
12	4289808	1	Gear, Crankshaft	
13	4198165	1	Feather Key	
14	556975	1	Oil Slinger	
15	553088	1	Collar, Crankshaft	
□ 16	594367	1	O Ring	
17	553089	1	Nut, Crankshaft	
● 18	4134242	1	Metal, Crankshaft	STD
◆ 18	4134243	1	Metal, Crankshaft	-0.20mm
■ 18	4134244	1	Metal, Crankshaft	-0.40mm
19	4198236	1	Pin, Straight	
● 20	4134245	2	Metal, Side	STD
◆ 20	4134246	2	Metal, Side	+0.20mm
■ 20	4134247	2	Metal, Side	+0.40mm
● 21	4134248	2	Metal, Side	STD
◆ 21	4134249	2	Metal, Side	+0.20mm
■ 21	4134250	2	Metal, Side	+0.40mm
□ 22	556976	1	Seal, Oil	
●	4198367	1	Kit Metal, STD Engine	Includes Items marked ●
◆	4198368	1	Kit Metal, -0.20mm/+0.20mm Engine	Includes Items marked ◆
■	4198369	1	Kit Metal, -0.40mm/+0.40mm Engine	Includes Items marked ■
★	4289812	4	Kit, STD Piston	Includes Items marked ★
▲	4289814	4	Kit, +0.25mm Piston	Includes Items marked ▲
□	Included in Lower Gasket Kit 4289810 See 1.1			

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11.1 Fuel Camshaft and Governor Shaft

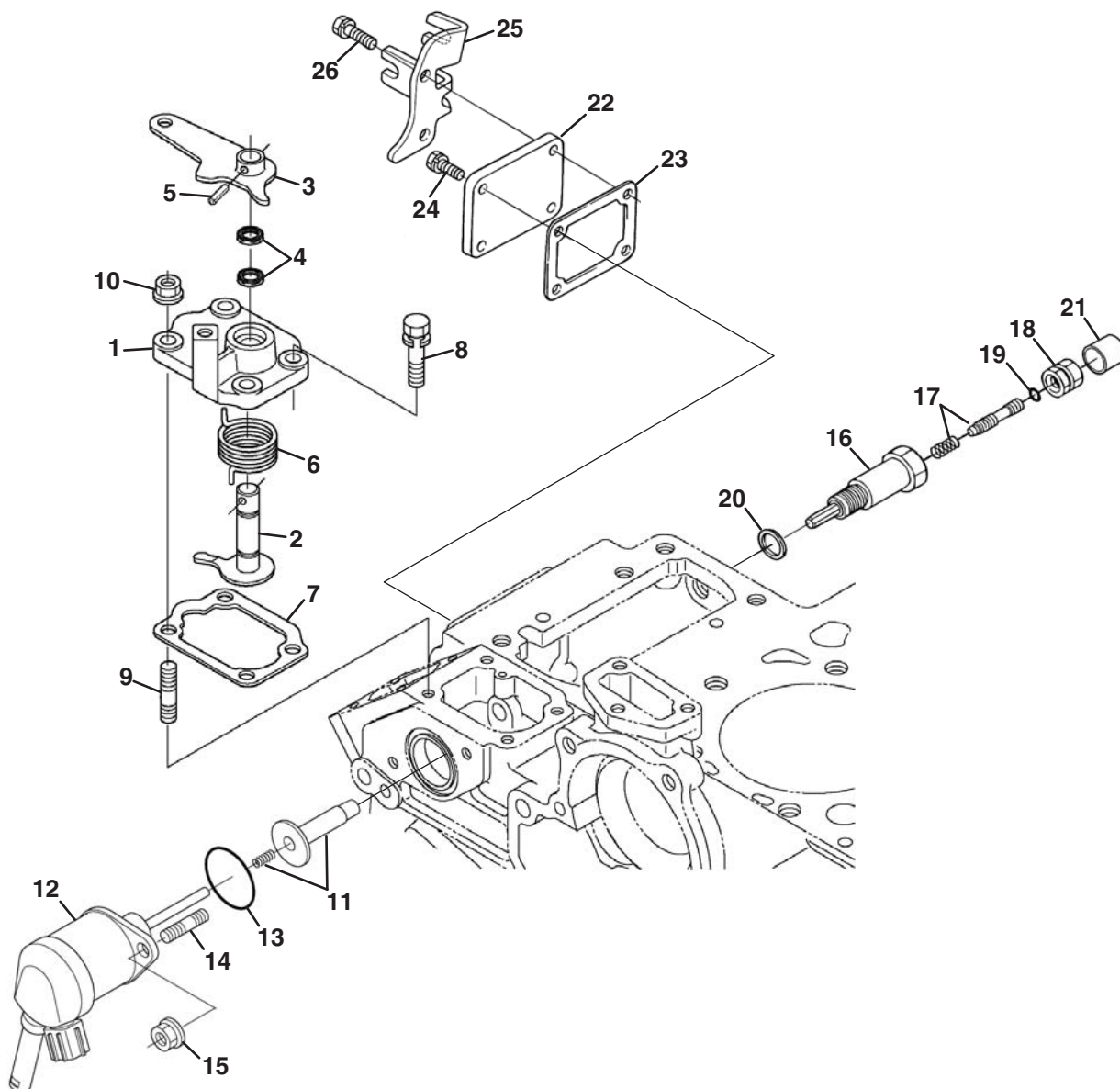
Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4289861	1	Assembly Camshaft, Fuel	
2	4289869	1	• Bearing, Ball	
3	557378	1	• Gear, Injection Pump	
4	594373	1	• Feather Key	
5	557379	1	• Sleeve, Governor	
6	553123	1	• Cir-clip, Gov. Sleeve	
7	4289848	1	• Case, Governor Ball	
8	550432	39	• Ball 5/32	
9	553125	1	• Cir-clip	
10	557336	7	• Ball	
11	4198372	1	Bearing, Ball	
12	4289862	1	Stopper, Fuel Camshaft	
13	4289798	2	Bolt, Sems	
14	4198169	1	Cover, Fuel Camshaft	
15	4198370	1	Collar	
❑ 16	4198321	1	Gasket	
17	594360	1	Cir-clip, External	
18	4134407	4	Bolt, Sems	
❑	Included in Lower Gasket Kit 4289810 See 1.1			

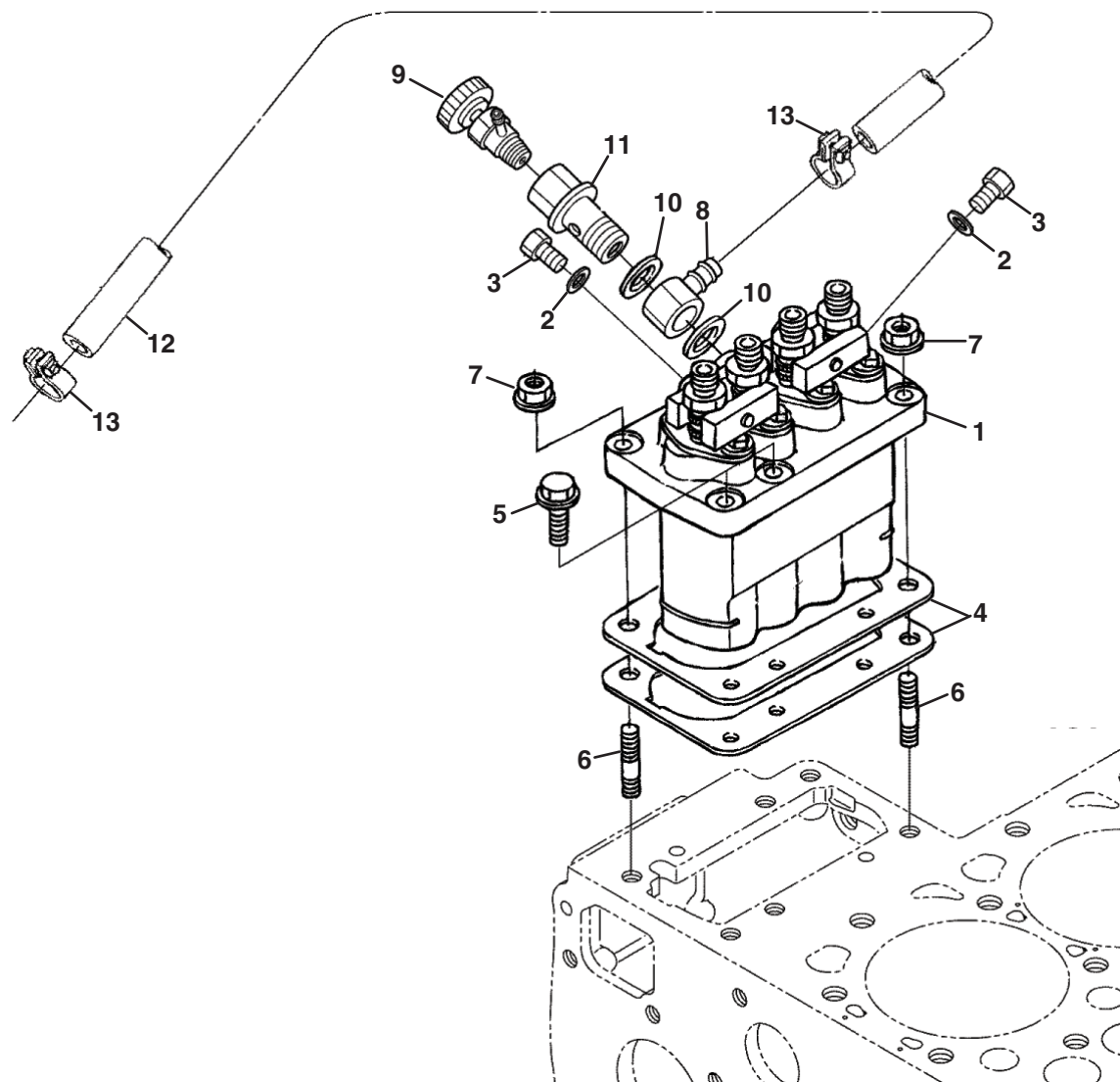
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12.1 Engine Stop and Idle Apparatus



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4289864	1	Assembly Lever, Eng. Stop	
2	4289865	1	• Comp. Lever, Stop	
3	4289866	1	• Lever, Engine Stop	
4	4289867	2	• Gasket	
5	4289800	1	• Pin, Spring	
6	4134266	1	• Spring, Return	
❑ 7	4134267	1	Gasket, Plate	
8	550364	2	Bolt, Sems	
9	553003	2	Stud	
10	2810647	2	Nut, Flange	
11	4134269	1	Comp. Guide, Solenoid	
12	4134270	1	Assembly Solenoid	
❑ 13	4134271	1	O Ring	
14	553003	2	Stud	
15	2810647	2	Nut, Flange	
16	4289832	1	Apparatus, Idling	
17	4289831	1	Assembly Bolt, Adjustment	
18	4134259	1	• Nut, Spring	
❑ 19	4134260	1	• Ring	
❑ 20	4134261	1	Gasket	
21	4134259	1	Nut, Spring	
22	4134172	1	Cover, Inj.pump	
❑ 23	553163	1	Gasket, Pump Cover	
24	550362	2	Bolt, Sems	
25	4134174	1	Bracket, Accel.cable	
26	550364	2	Bolt, Sems	
❑	Included in Lower Gasket Kit 4289810 See 1.1			

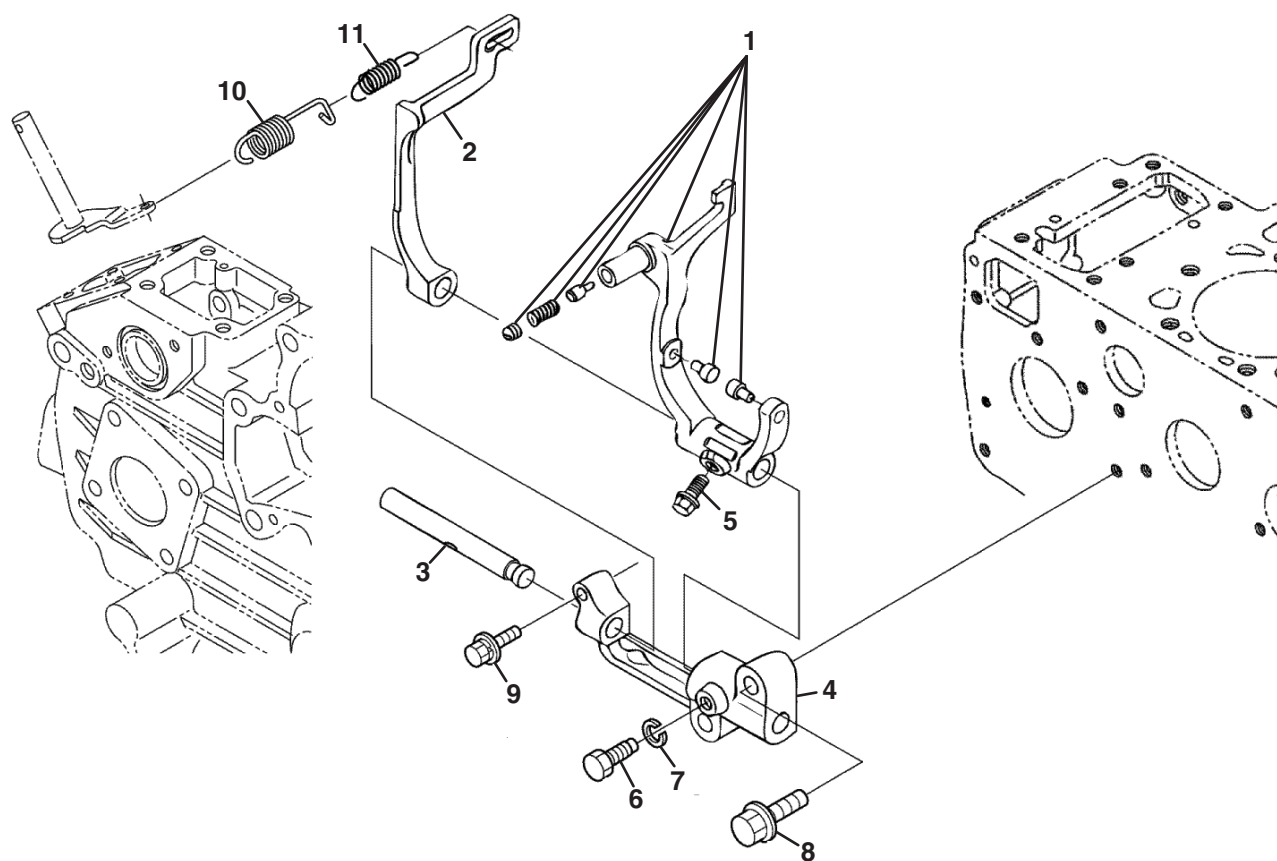
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Item	Part No.	Qty.	Description	Serial Numbers/Notes
	1		Assembly Pump, Injection 1	
☐	2	2	• Gasket	
	3	2	• Screw, Air Bleeder	
	4	1	Shim, Injection	0.175mm
	4	1	Shim, Injection	0.200mm
	4	1	Shim, Injection	0.250mm
	4	1	Shim, Injection	0.300mm
	4	1	Shim	0.350mm
	5	4	Bolt, Flange	
	6	2	Stud	
	7	2	Nut, Flange	
	8	1	Joint, Eye	
	9	1	Assembly Cock, Jet Start	
☐	10	2	Gasket	
	11	1	Bolt, Eye Joint	
	12	1	Assembly Pipe, Fuel	
	13	2	• Clip, Pipe	
☐	Included in Lower Gasket Kit 4289810 See 1.1			

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14.1 Governor

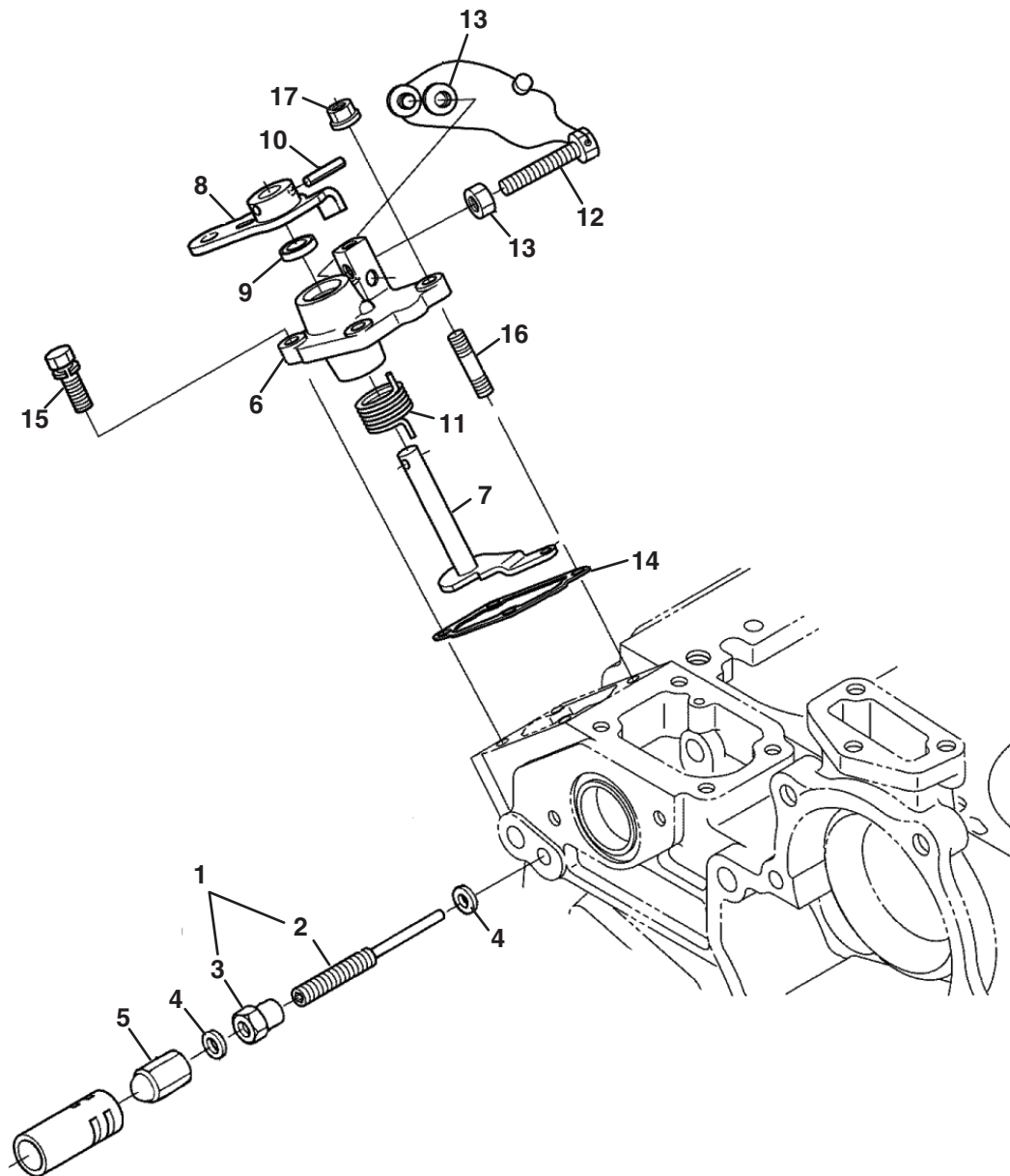


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4289843	1	Assembly Lever, Fork	
2	4134278	1	• Lever, Fork	
3	4134279	1	• Shaft, Fork Lever	
4	552992	1	• Holder, Fork Lever	
5	4138085	1	• Bolt, Flange	
6	553137	1	• Bolt	
7	550408	1	• Washer, Spring Lock	
8	4137901	2	Bolt, Flange	
9	4138284	1	Bolt	
10	4289815	1	Spring Governor, 1	
11	4289833	1	Spring, Governor	

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15.1 Speed Control Plate

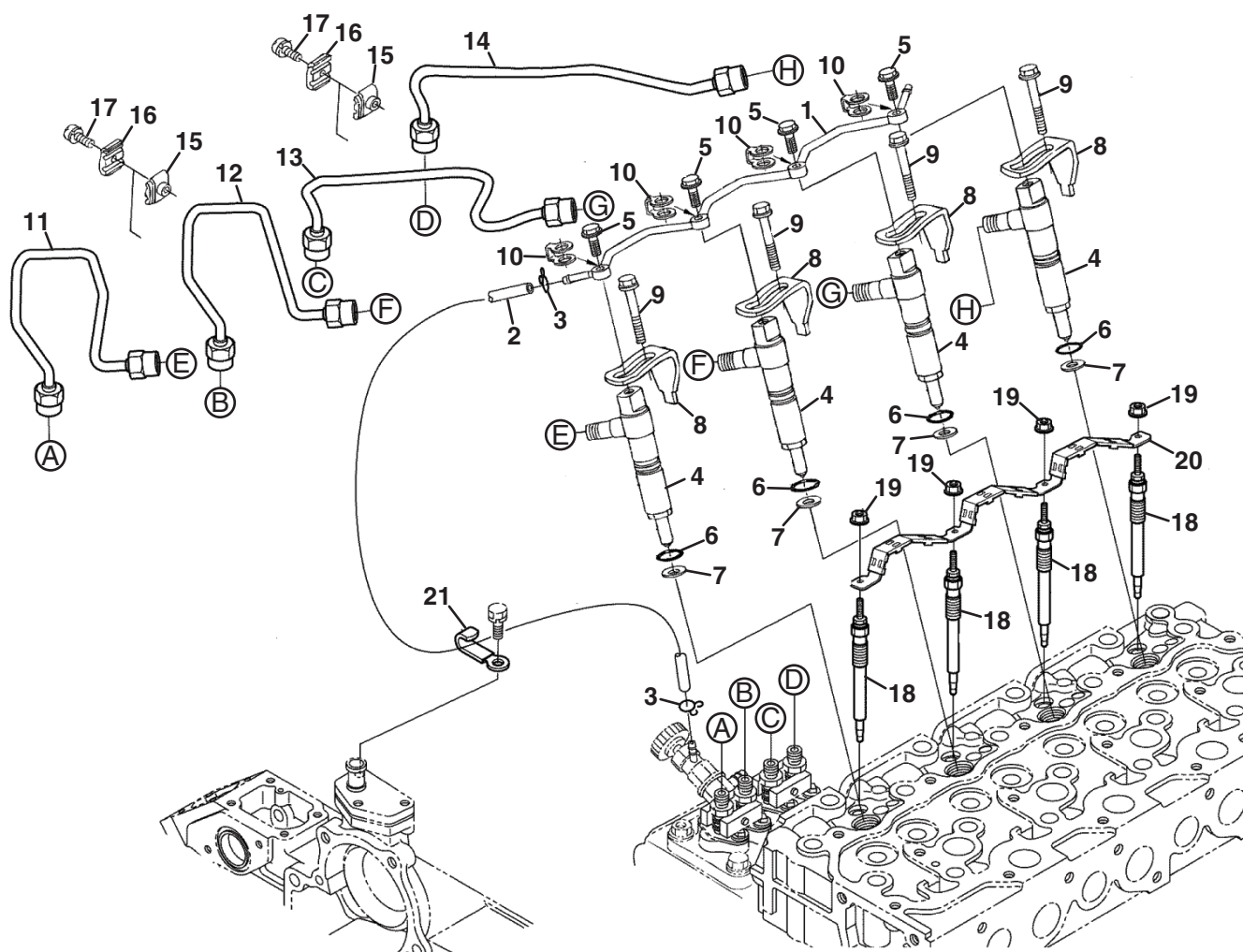
Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4134289	1	Assembly Bolt, Adjustment	
2	4198238	1	• Bolt, Adjusting	
3	553142	1	• Nut	
❑ 4	553143	2	Gasket	
5	553879	1	Nut	
6	4134290	1	Assembly Plate, Control	
7	4134291	1	• Comp. Lever, Governor	
8	4134292	1	• Lever, Speed Control	
❑ 9	4198212	1	• Seal, Oil	
10	550425	1	• Pin, Spring	
11	4134266	1	• Spring, Return	
12	4289809	2	• Bolt, Wired	
13	550395	2	• Hex.nut	
❑ 14	4134267	1	Gasket, Plate	
15	550364	2	Bolt, Sems	
16	553003	2	Stud	
17	2810647	2	Nut, Flange	
❑	Included in Lower Gasket Kit 4289810 See 1.1			

> Change from previous revision

16.1 Nozzle Holder and Glow Plug

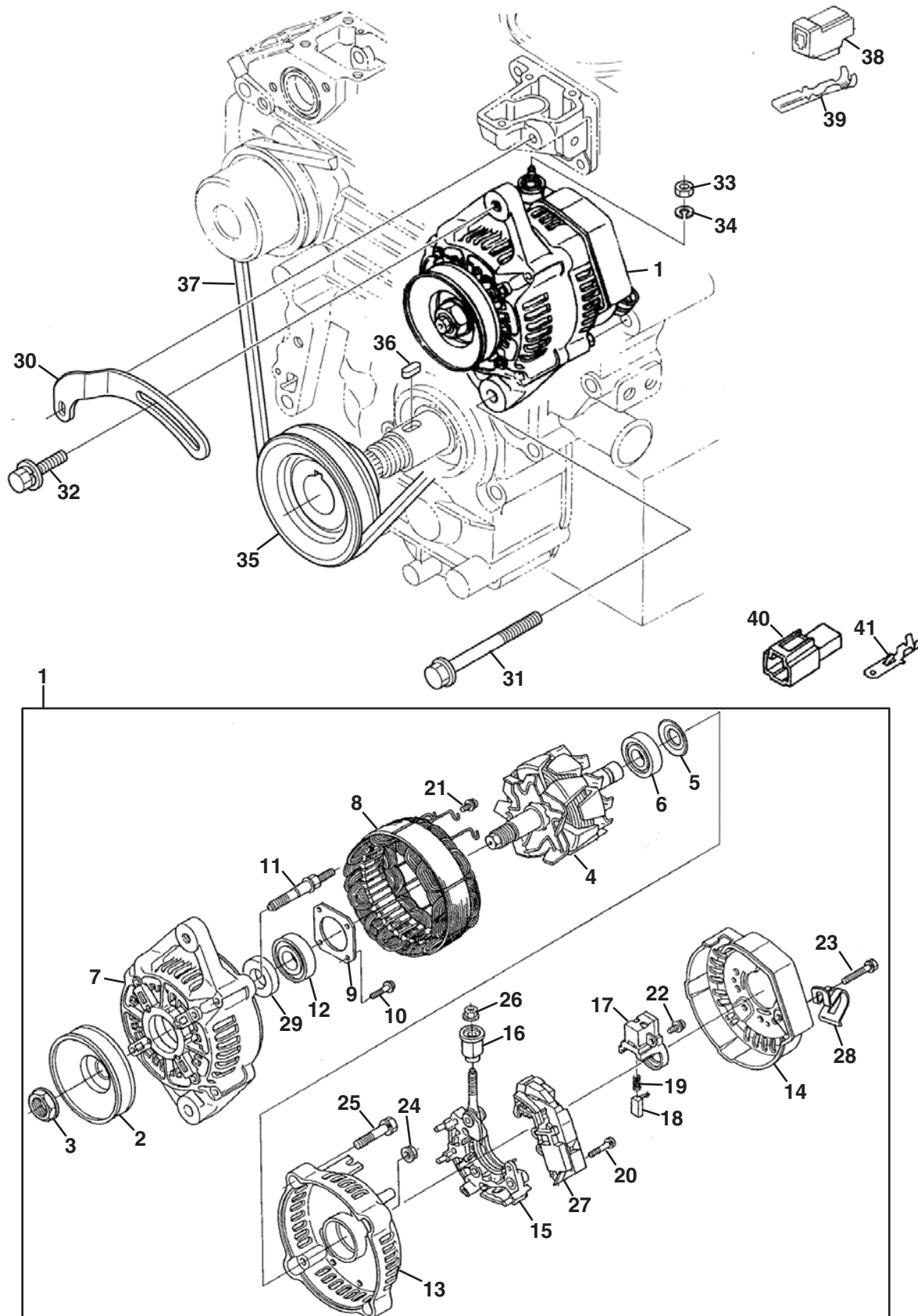


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4289859	1	Assembly Pipe, Over Flow	
2	4289856	1	Assembly Tube, Fuel	
3	553105	2	Clip, Pipe	
4	4289841	4	Assembly Holder, Nozzle	
5	4138036	4	Bolt, Eye Joint	
○ 6	2809954	4	O Ring	
○ 7	4251732	4	Gasket	
8	4289842	4	Clamp, Nozzle	
9	4289860	4	Bolt, Clamp	
○ 10	4138037	4	Gasket	
11	4289823	1	Pipe, Injection	
12	4289825	1	Pipe, Injection	
13	4289826	1	Pipe, Injection	
14	4289827	1	Pipe, Injection	
15	554054	2	Clamp, Pipe	
16	554055	2	Clamp, Pipe	
17	550401	2	Screw, Sems	
18	4289844	4	Glow Plug	
19	5001152	4	• Nut, Flange	
20	4289834	1	Cord, Glow Plug	
21	2501170	1	Clamp, Hose	
○	Included in Upper Gasket Kit 4289811 See 1.1			

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17.1 Alternator

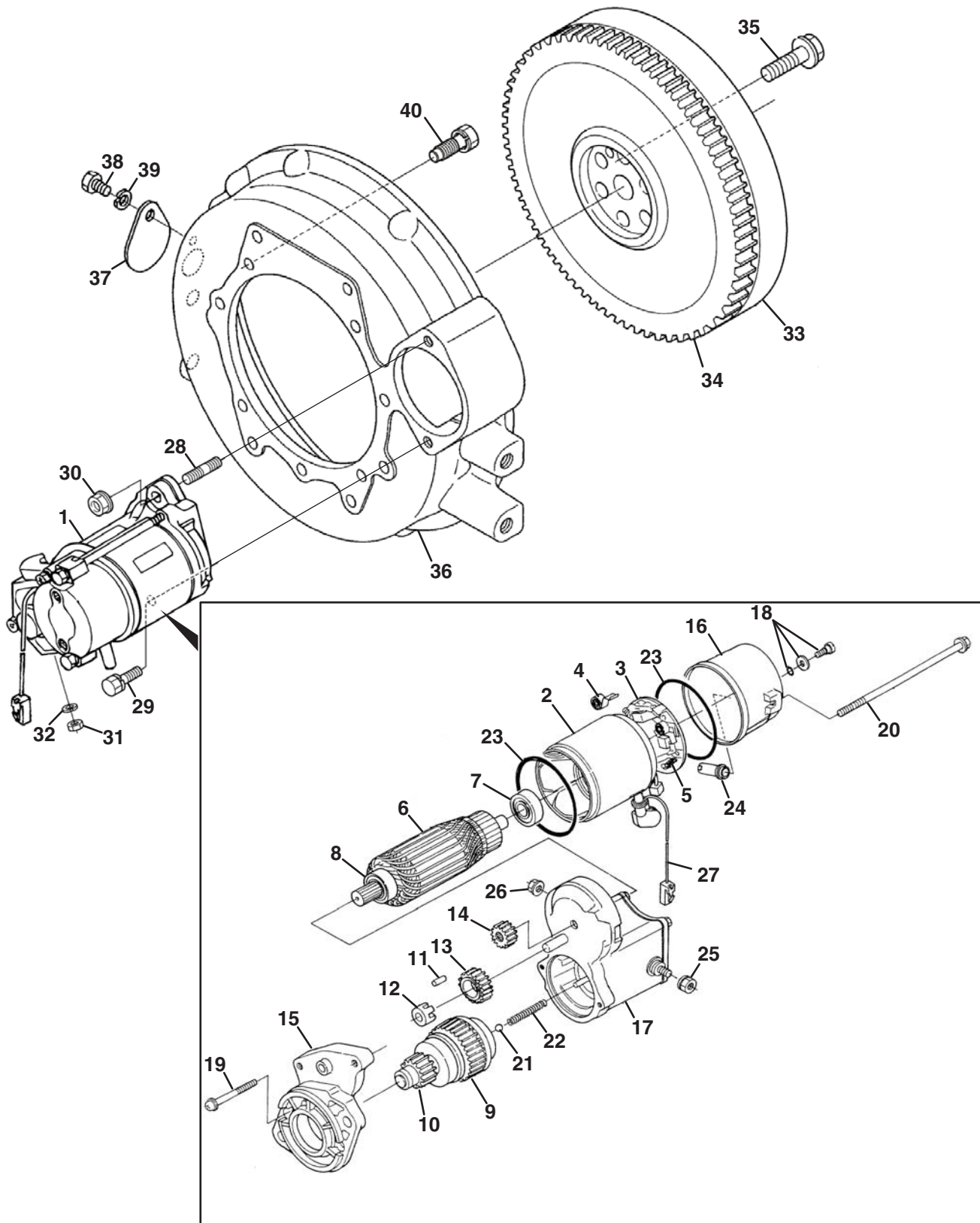
Serial No. All



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18.1 Starter and Flywheel

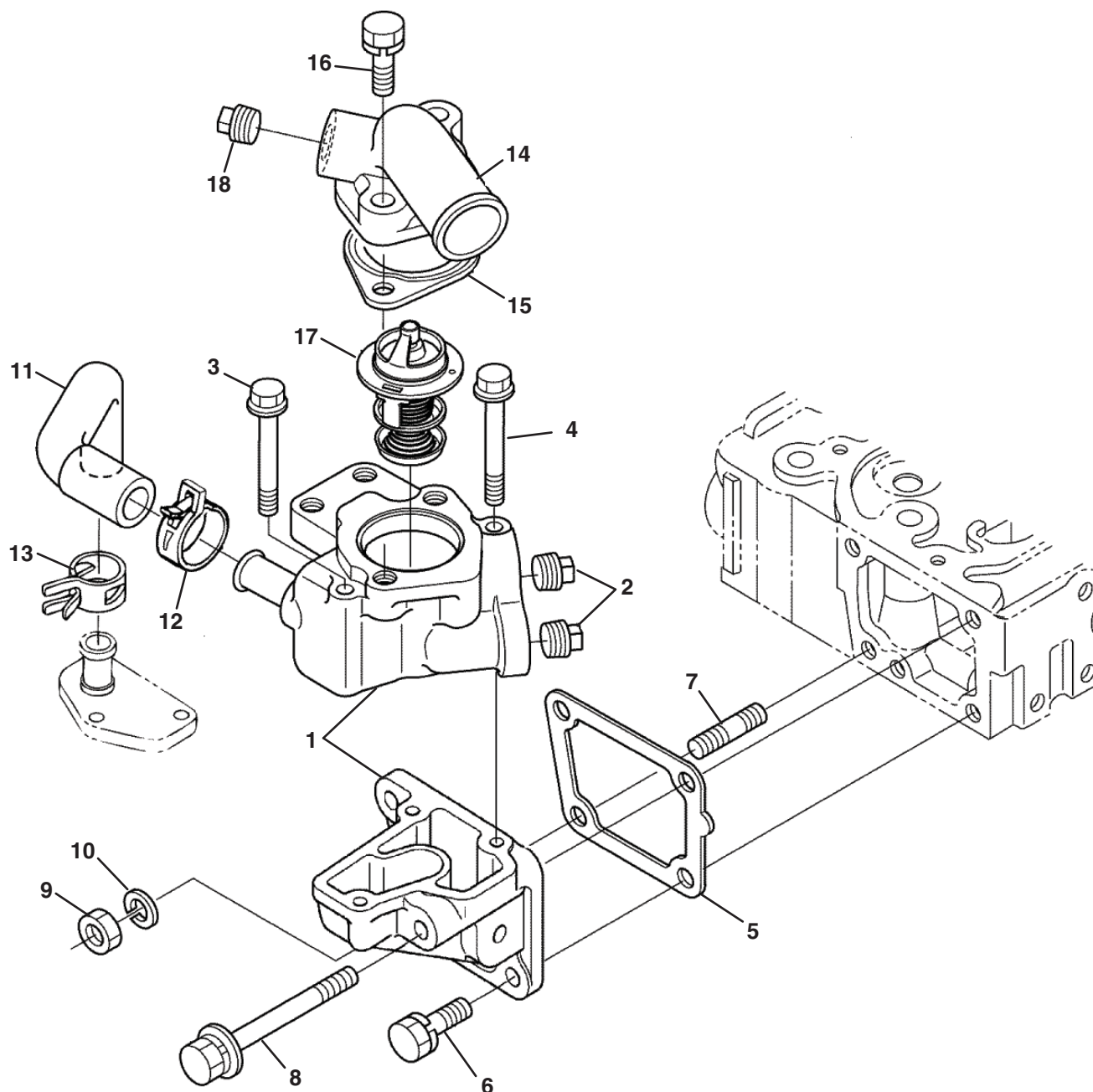
Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4198229	1	Assembly Starter	12V 2.0kW
2	4198216	1	• Yoke	
	4198221	1	• Holder, Brush	
3	4289804	2	• • Brush, Kit	
4	4198217	4	• • Spring	
5	4289803	4	• • Spring, Brush	
6	4198215	1	• Armature	
7	4198222	1	• • Bearing	
8	557892	1	• • Bearing	
9	4198214	1	• Clutch, Over Running	
10	5001307	1	• • Gear, Pinion	
11	557902	5	• Roller	
12	557903	1	• Retainer	
13	2810751	1	• Gear	
14	4198219	1	• Gear	
15	4198213	1	• Frame, Drive End	
16	4198218	1	• Frame, End	
17	4198130	1	• Assembly Switch, Magnetic	
18	4198223	2	• Screw	
19	4198224	2	• Screw	
20	4198220	2	• Bolt, Through	
21	557904	1	• Ball	
22	557905	1	• Spring	
23	5003288	2	• O Ring	
24	4198201	1	• Pipe, Drain	
25	5001183	1	• Nut, Hexagon	
26	557912	1	• Nut, Hexagon	
27	557913	1	• Cord, Stop Solenoid	
28	594345	1	Bolt, Stud	
29	594337	1	Bolt, Sems	
30	4251684	1	Nut, Flange	
31	550395	1	Hex.nut	
32	550409	1	Washer,spring Lock	
33	4198365	1	Comp. Flywheel	
34	4198239	1	• Gear, Ring	
35	4198377	6	Bolt ,flywheel	
36	4198364	1	Housing, Flywheel	
37	557332	1	Cover	
38	594338	1	Hex.bolt	
39	550409	1	Washer, Spring Lock	
40	4134252	11	Bolt	

> Change from previous revision

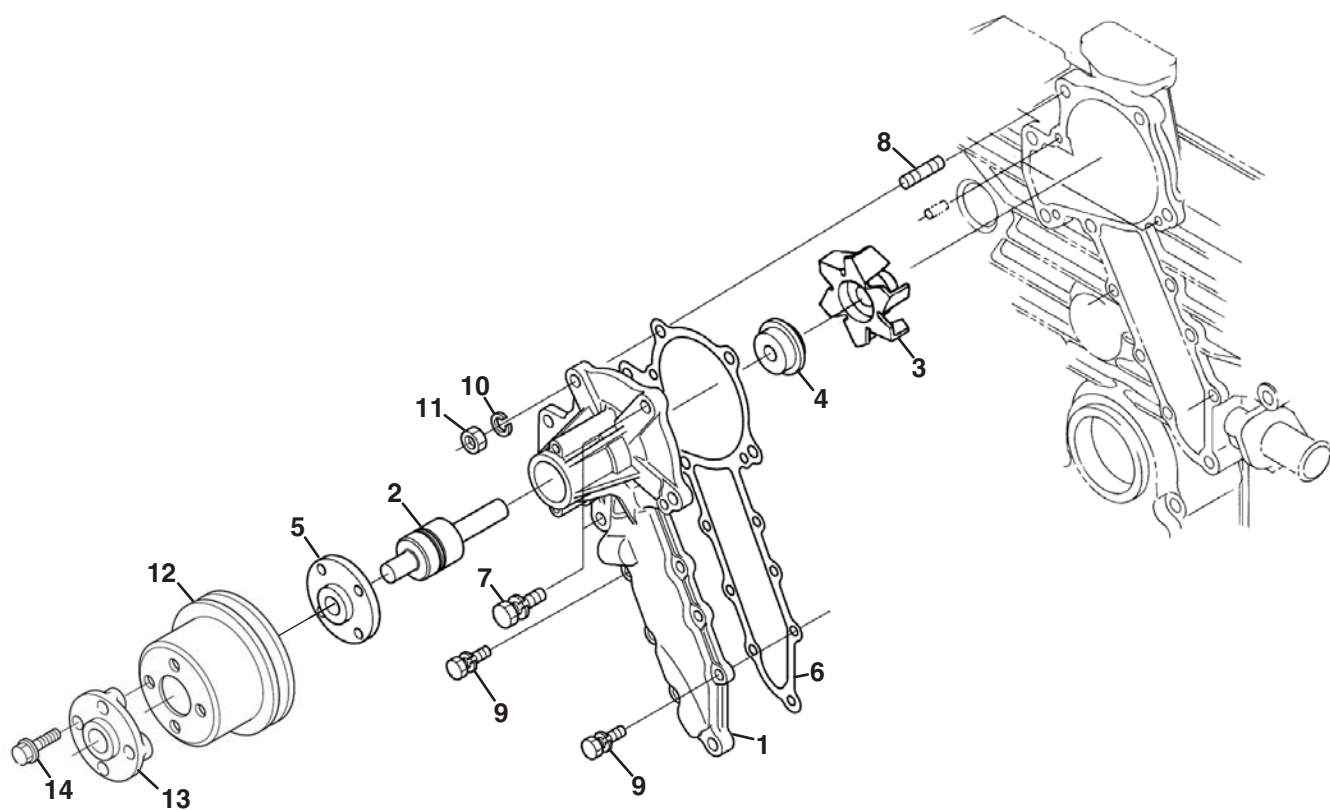
19.1 Water Flange and Thermostat



Item	Part No.	Qty.	Description	Serial Numbers/Notes
○	1	4198342	1	Comp. Flange, Water
	2	4134361	2	• Plug
	3	4134362	2	• Bolt, Flange
	4	4134363	1	• Bolt, Flange
	5	4134364	1	Gasket, Water Flange
	6	4113985	2	Bolt, Sems
	7	553024	1	Stud
	8	4134365	1	Bolt
	9	550398	1	Hex Nut
	10	550409	1	Washer, Spring Lock
	11	4134366	1	Pipe, Water Return
	12	4198233	1	Clamp, Hose
	13	4134368	1	Band, Hose
	14	4134369	1	Cover, Thermostat
	15	4134370	1	Gasket, Thermostat
	16	594334	2	Bolt, Sems
	17	4289863	1	Assembly Thermostat
	18	4134361	1	Plug
○	Included in Upper Gasket Kit 4289811 See 1.1			

> Change from previous revision

20.1 Water Pump

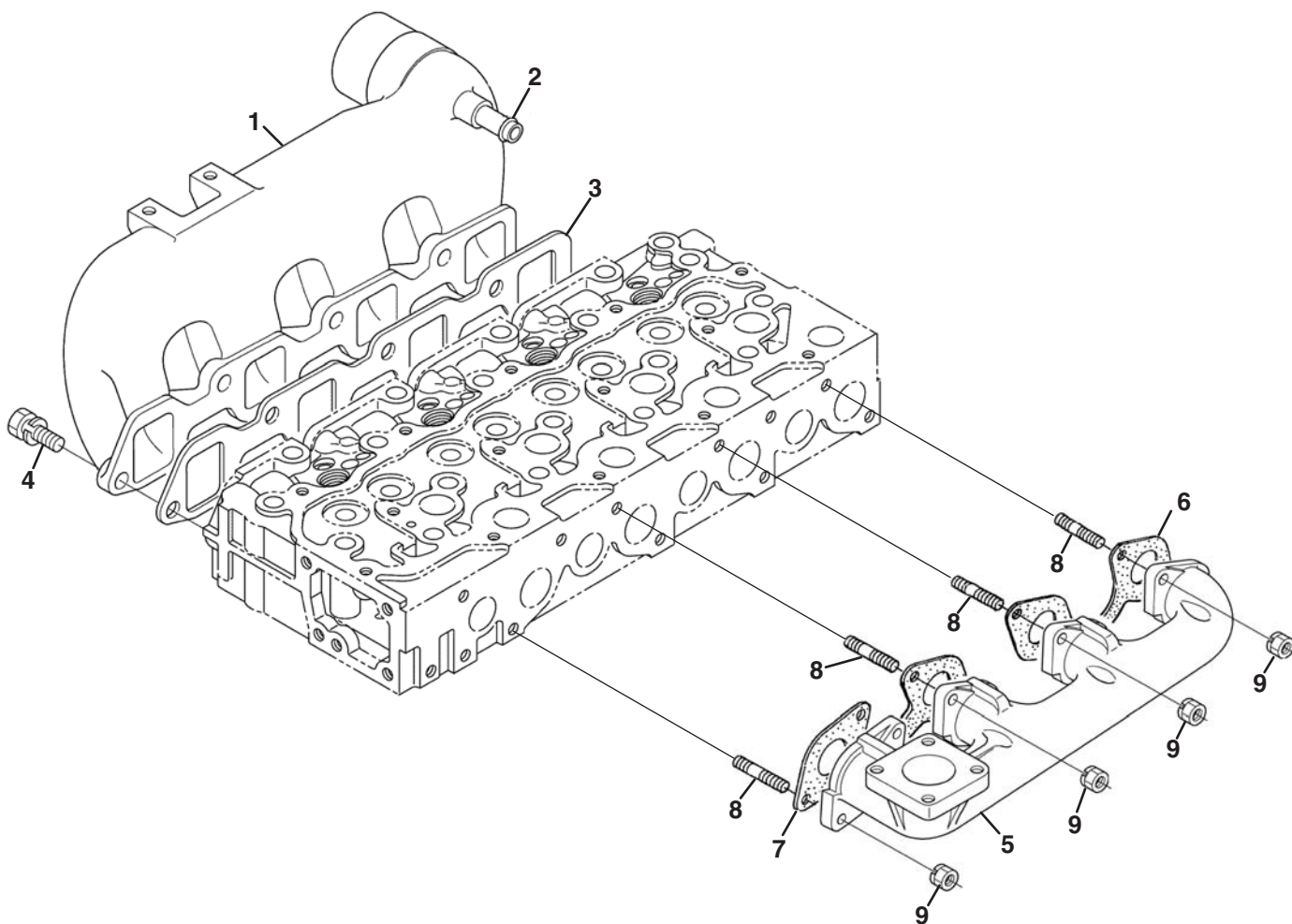


Item	Part No.	Qty.	Description	Serial Numbers/Notes
	4198243	1	Assembly Pump, Water	
1	4198300	1	• Body, Water Pump	
2	4198211	1	• Bearing	
3	4134375	1	• Impeller, Water Pump	
4	4134376	1	• Seal, Mechanical, Assembly	
5	4134377	1	• Flange, W/pump Shaft	
❑ 6	4134378	1	Gasket, Water Pump	
7	594332	2	Bolt, Sems	
8	4134379	1	Bolt, Stud	
9	550363	6	Bolt, Sems	
10	550409	1	Washer, Spring Lock	
11	550398	1	Hex Nut	
12	4198228	1	Pulley, Fan	
13	4134383	1	Collar, Fan	
14	4134384	4	Bolt, Flange	
❑	Included in Lower Gasket Kit 4289810 See 1.1			

> Change from previous revision

21.1 Intake and Exhaust Manifolds

Serial No. All

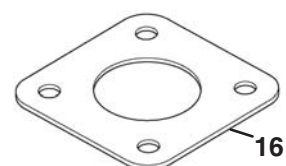
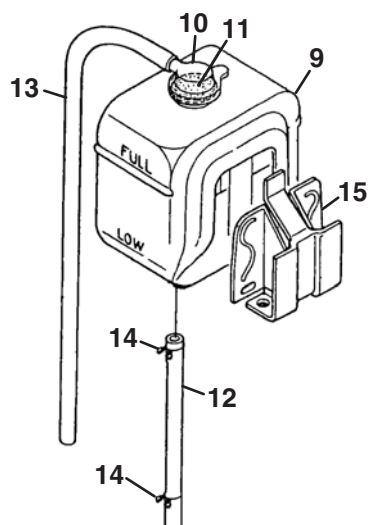
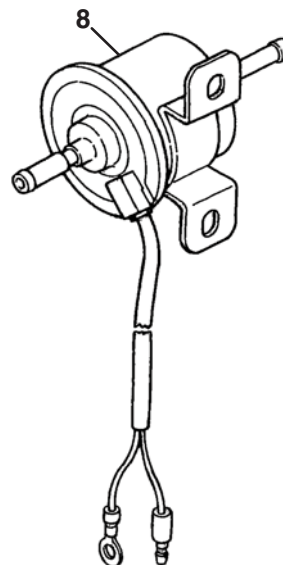
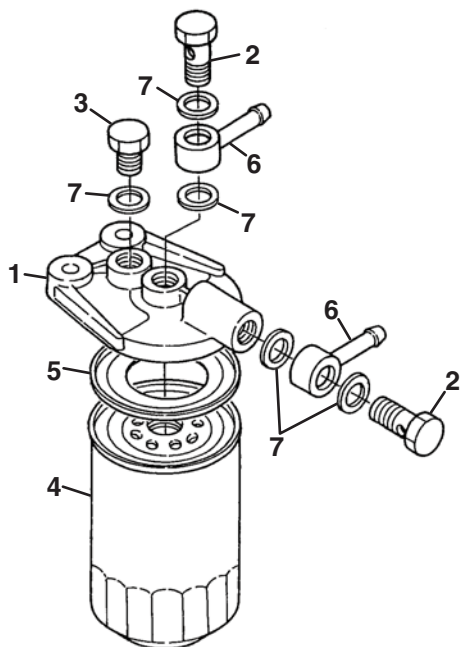


Item	Part No.	Qty.	Description	Serial Numbers/Notes
1	4289830	1	Assembly Manifold, Inlet	
2	4134204	1	• Pipe, Return	
○ 3	4289819	1	Gasket, In-manifold	
4	550379	7	Bolt, Sems	
5	4289849	1	Manifold, Exhaust	
○ 6	4134392	1	Gasket, Ex-manifold	
○ 7	4134393	1	Gasket, Ex-manifold	
8	553024	8	Stud	
9	4134395	8	Nut With Lock Washer	
○	Included in Upper Gasket Kit 4289811 See 1.1			

> Change from previous revision

22.1 Loose Components

Serial No. All



Item	Part No.	Qty.	Description	Serial Numbers/Notes
	503626	1	Assembly Filter, Fuel	
1	4134312	1	• Cover, Filter	
2	4138103	2	• Bolt, Joint	
3	4134314	1	• Plug	
4	557619	1	• Element, Fuel Filter	
5	4138106	1	• Gasket	
6	4134317	2	• Connector	
7	4138107	5	• Gasket	
8	4132489	1	Assembly Pump, Fuel	
9	557367	1	Tank, Assembly (Reserve)	
10	557984	1	Cap	
11	2500815	1	Packing	
12	557370	1	Pipe, Water Over Flow	
13	557371	1	Pipe, Water Over Flow	
14	553914	2	Clip, Pipe	
15	557374	1	Stay, Reserve Tank	
○ 16	4134436	1	Gasket, Muffler	
○	Included in Upper Gasket Kit 4289811 See 1.1			

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