



Engine Parts Manual

Kubota Gasoline Engine

WG972-G-E4-TXN-1 – Jacobsen Truckster XD / Spraytek XP

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

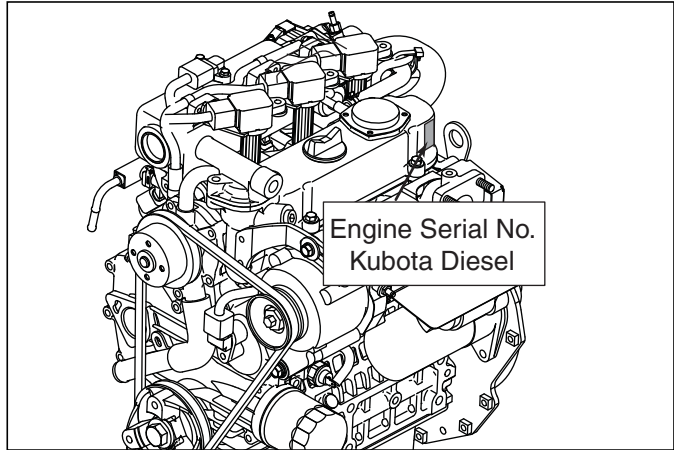
This manual contains a parts list for your Kubota Engine.

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
	4334566	Upper Gasket Kit		4334565	Lower Gasket Kit
	5002644	Oil Filter Cartridge		5001284	V-Belt
	5001182	Fuel Filter Element			

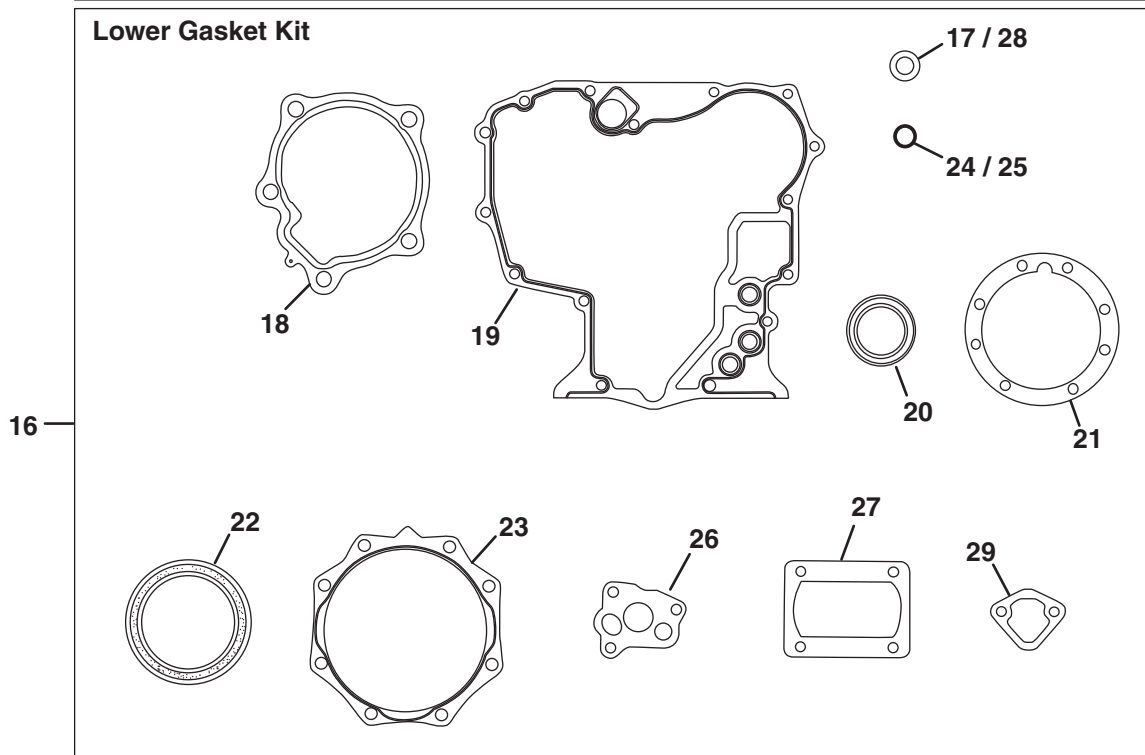
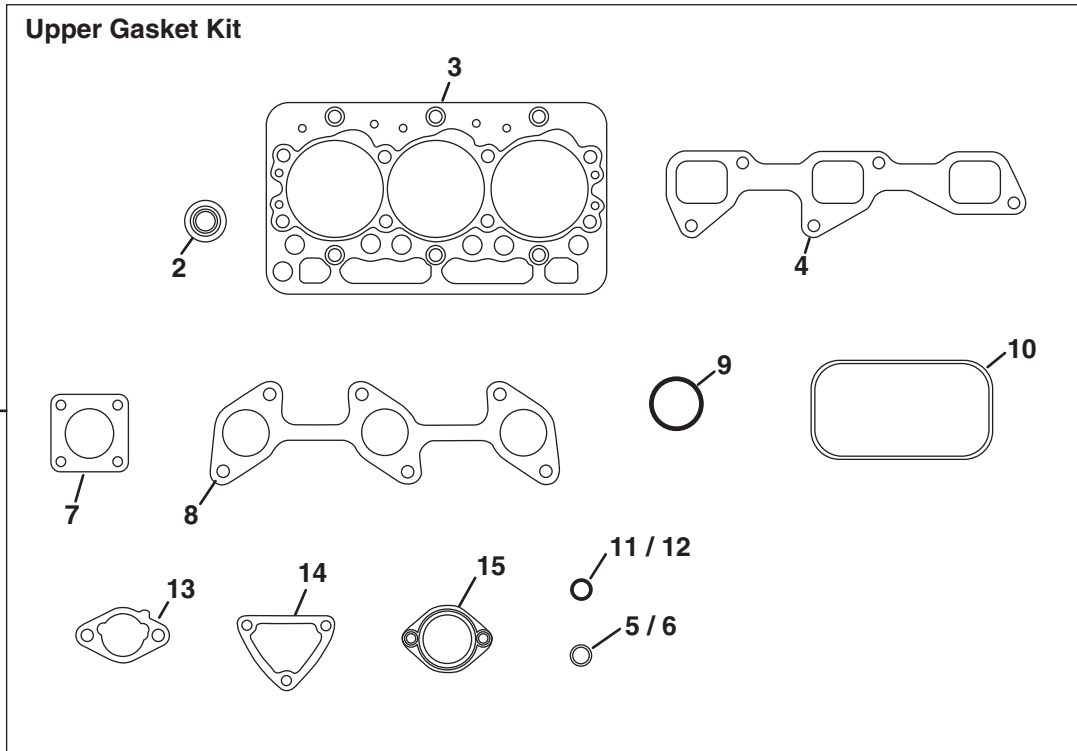
Proposition 65 Warning

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 Kits

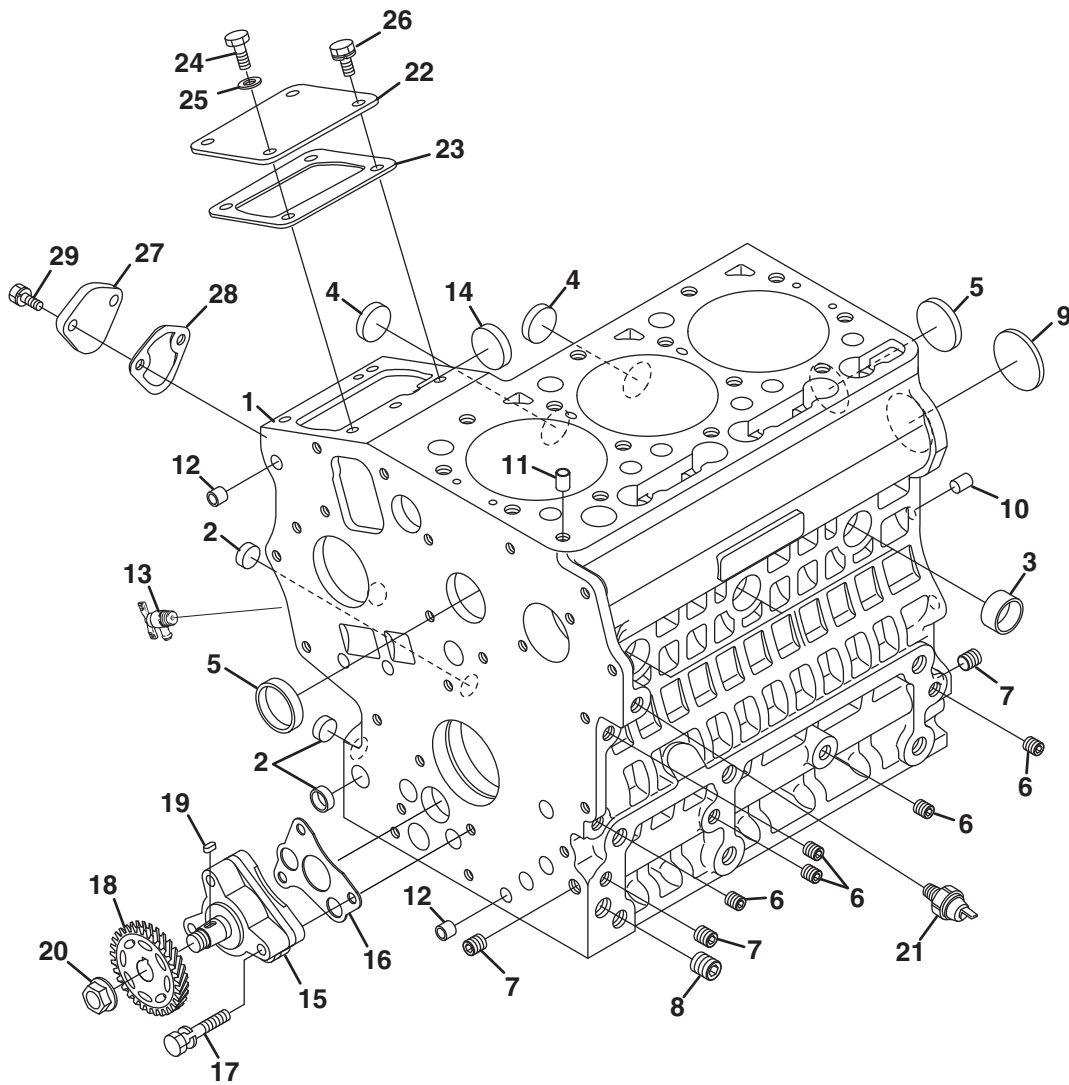


Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	4334566	1	Kit, Upper Gasket	
●	2	4334543	6	• Seal, Valve Stem	
●	3	4334528	1	• Gasket, Head	
●	4	4334538	1	• Gasket, In-manifold	
●	5	4334527	1	• O-Ring	
●	6	2809955	1	• O Ring	
●	7	4308957	2	• Gasket, Muffler	
●	8	4334506	1	• Gasket, Ex-manifold	
●	9	4177232	1	• O Ring, Breather	
●	10	4334545	1	• Gasket, Head Cover	
●	11	4334460	1	• Gasket	
●	12	553143	1	• Packing	
●	13	4334520	2	• Gasket, Air Cleaner	
●	14	554082	1	• Gasket, Water Flange	
●	15	4134370	1	• Gasket, Thermostat	
●	16	4334565	1	Kit, Lower Gasket	
●	17	2500811	1	• Gasket	
●	18	5001962	1	• Gasket, Water Pump	
●	19	4334505	1	• Gasket, Gear Case	
●	20	557528	1	• Seal, Oil	
●	21	5001884	1	• Gasket, Bearing Case	
●	22	4209375	1	• Seal, Oil	
●	23	5001422	1	• Gasket, Case Cover	
●	24	4145665	1	• O Ring	
●	25	4145653	1	• O Ring	
●	26	5001864	1	• Gasket, Oil Pump Na	
●	27	4334521	1	• Gasket	
●	28	553143	1	• Packing	
●	29	5001922	1	• Gasket, Fuel Pump	

● - Used on All Engines

> Change from previous revision

2.1 Crankcase



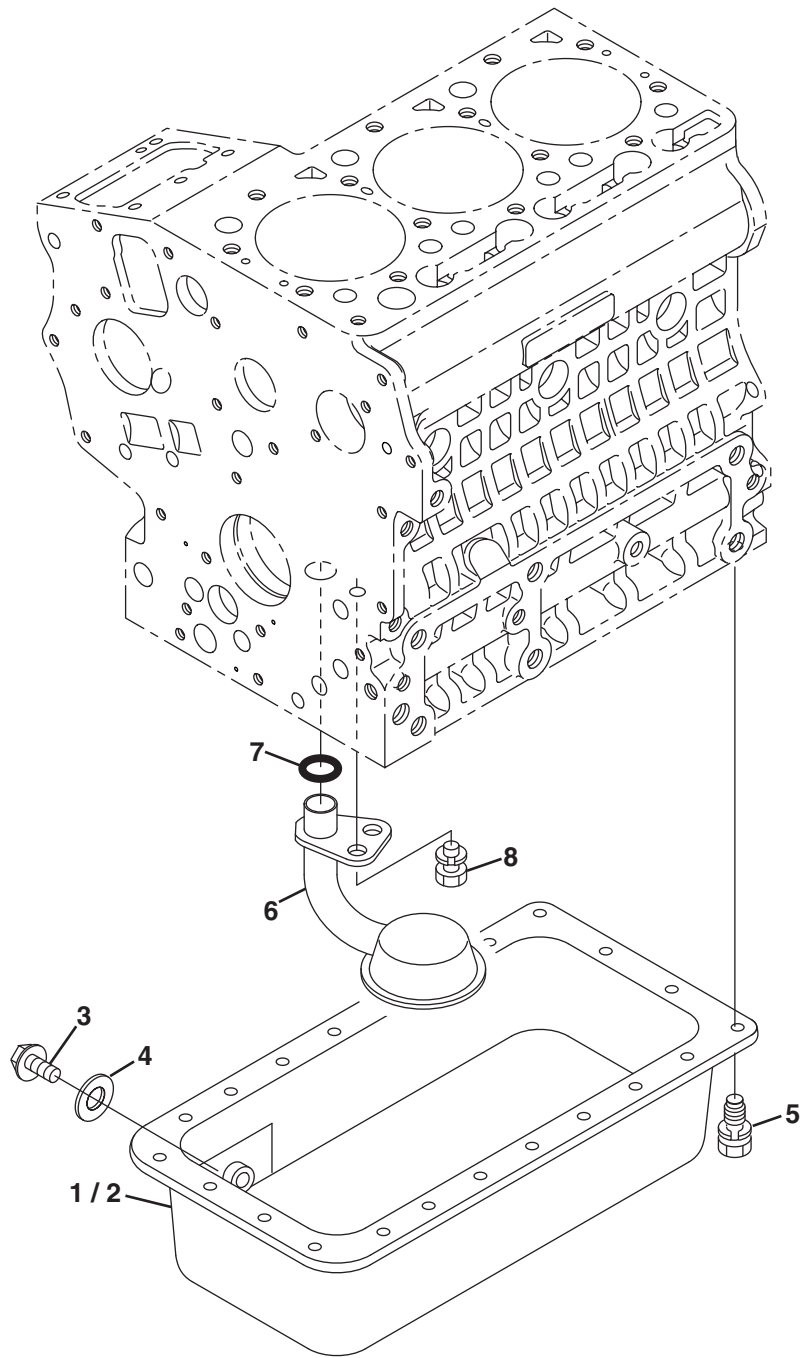
KUBOTA WG972-G-E4

Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	4334522	1	Comp. Crankcase	
●	2	2810931	3	• Cap, Sealing	
●	3	5001861	3	• Cap, Sealing	
●	4	4334461	2	• Cap, Sealing	
●	5	553911	2	• Cap, Sealing	
●	6	552978	5	• Plug	
●	7	552950	3	• Plug	
●	8	552951	1	• Plug	
●	9	4145733	1	• Plug, Expansion	
●	10	4145688	2	• Pin, Straight	
●	11	552954	1	• Pin, Pipe	
●	12	554220	2	• Pin, Pipe	
●	13	4306369	1	• Cock, Drain	
●	14	5001863	1	• Cover, Fuel Camshaft	
●	15	544012	1	Pump, Oil	
●	16	5001864	1	Gasket, Oil Pump Na	
●	17	554098	3	Bolt	
●	18	4306885	1	Gear, Oil Pump Drive	
●	19	594372	1	Key, Feather	
●	20	4251684	1	Nut, Flange	
●	21	552966	1	Switch, Oil Pressure	
●	22	4334466	1	Cover	
●	23	4334521	1	Gasket	
●	24	550370	1	Hex. Bolt	
●	25	553143	1	Packing	
●	26	550360	3	Bolt, Sems	
●	27	2500962	1	Cover	
●	28	5001922	1	Gasket, Fuel Pump	
●	29	550362	2	Bolt, Sems	

● - Used on All Engines

> Change from previous revision

3.1 Oil Pan



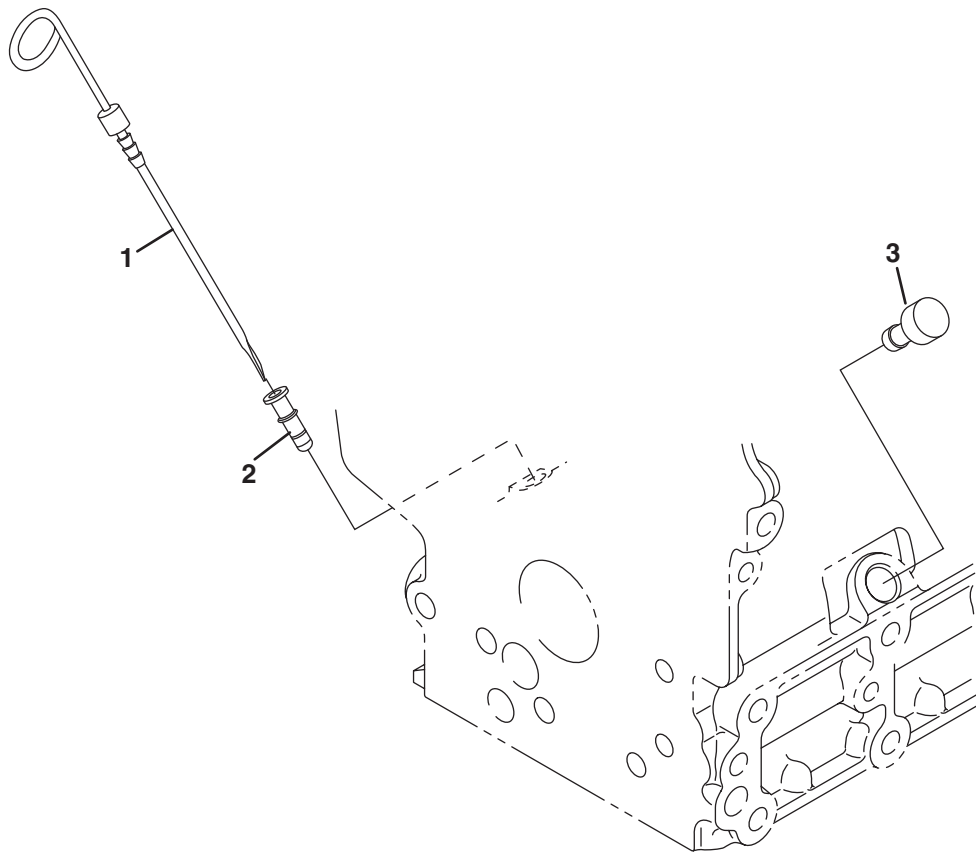
KUBOTA WG972-G-E4

Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	4334568	1	Kit, Oil Pan	
●	2	4334567	1	• Oil Pan	
●	3	4177260	1	• Plug, Drain	
●	4	2500811	1	• Gasket	
●	5	550360	22	Bolt, SEMS	
●	6	4334482	1	Filter, Oil	
●	7	4145653	1	O Ring	
●	8	4289798	1	Bolt, SEMS	

● - Used on All Engines

> Change from previous revision

4.1 Dipstick and Guide

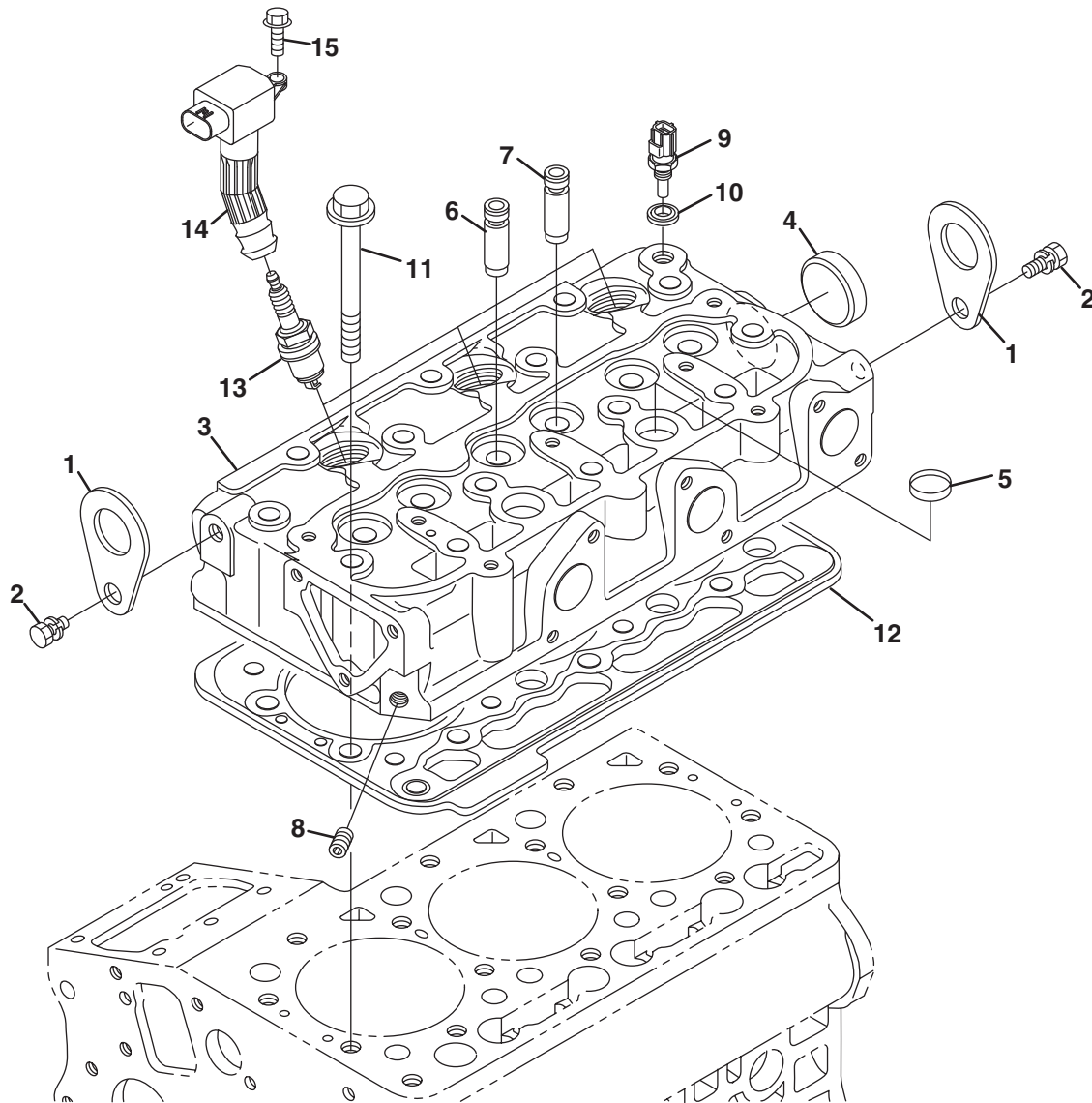


Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	4334487	1	Gauge, Oil	
●	2	4111662	1	Guide(Gauge, Oil)	
●	3	2812014	1	Plug, Oil Gauge	

● - Used on All Engines

> Change from previous revision

5.1 Cylinder Head



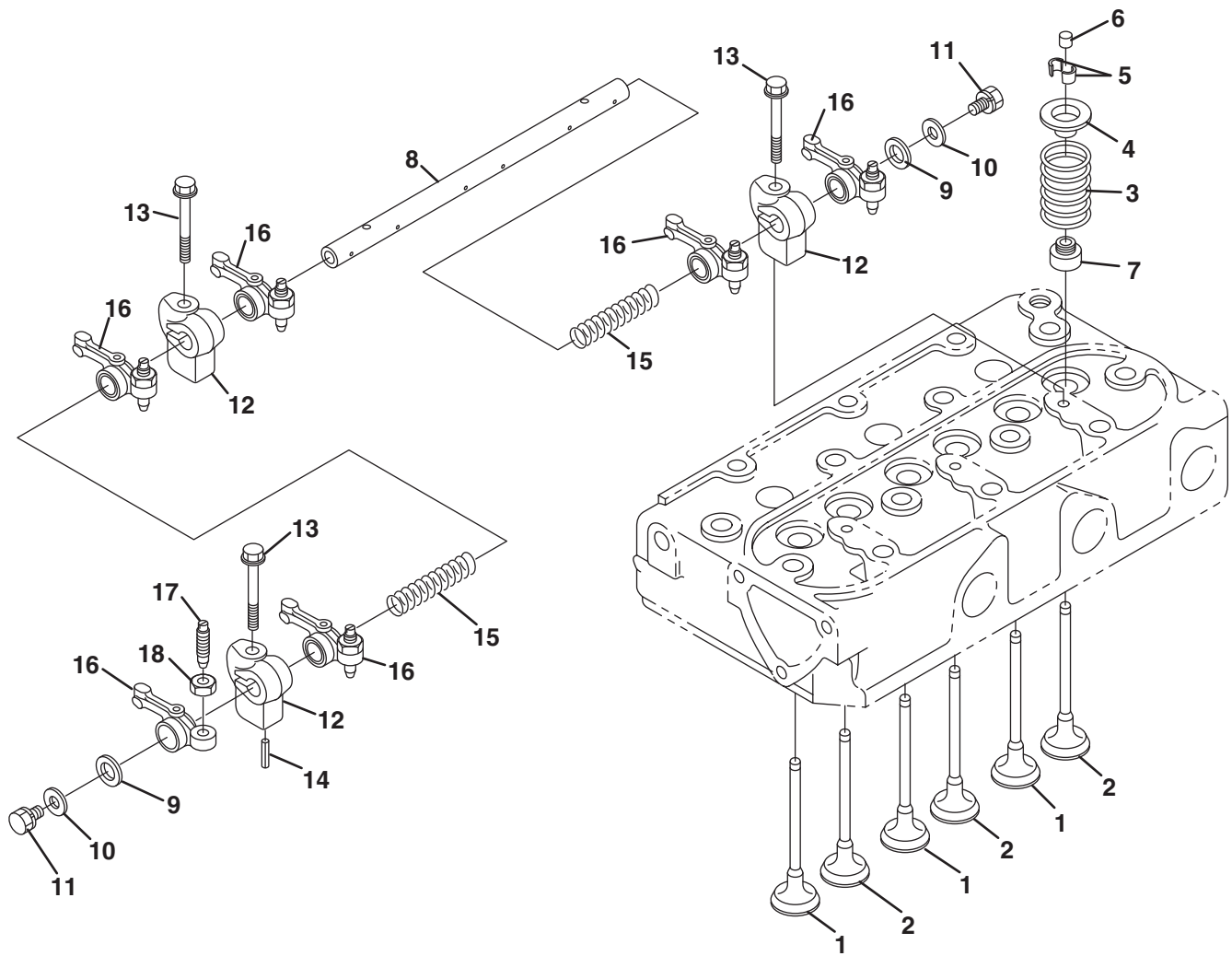
KUBOTA WG972-G-E4

Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	553934	2	Hook, Engine	
●	2	4289891	2	Bolt, Sems	
●	3	4334533	1	Head, Comp	
●	4	550673	1	• Cap, Sealing	
●	5	2500888	2	• Cap, Sealing	
●	6	553953	3	• Guide, Inlet Valve	
●	7	553954	3	• Guide, Exhaust Valve	
●	8	552978	1	• Plug	
●	9	4251858	1	Sensor, Water Temperature	
●	10	4334460	1	Gasket	
●	11	553867	14	Bolt, Cylinder Head	
●	12	4334528	1	Gasket, Head	
●	13	4334556	3	Spark Plug (NGK BKR6E)	Set gap to 0.029 to 0.032 in.
●	14	4334561	3	Coil, Ignition	
●	15	557366	3	Bolt, Flange	

● - Used on All Engines

> Change from previous revision

6.1 Valve and Rocker Arm

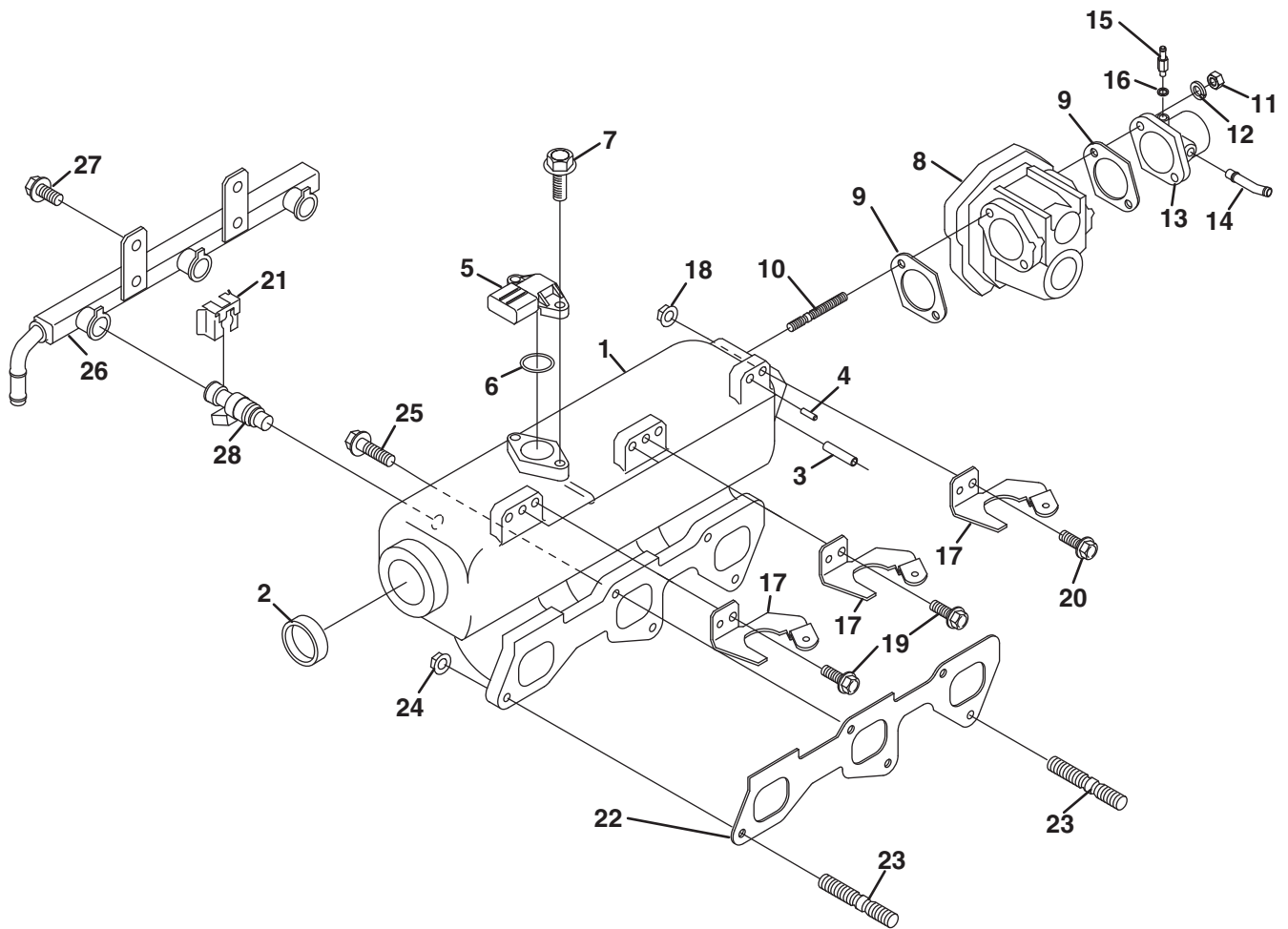


Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	4334523	3	Valve, Inlet	Set
●	2	4334529	3	Valve, Exhaust	
●	3	557546	6	Spring, Valve	
●	4	553872	6	Retainer, Valve Spring	
●	5	553873	12	Collet, Valve Spring	
●	6	553871	6	Cap, Valve	
●	7	4334543	6	Seal, Valve Stem	
●	8	4334507	1	Shaft, Rocker Arm	
●	9	5001982	2	Washer	
●	10	554108	2	Washer, Plain	
●	11	553839	2	Bolt, Sems	
●	12	4334493	3	Bracket, Rocker Arm	
●	13	4145650	3	Bolt, Flange	
●	14	550425	1	Pin, Spring	
●	15	4334492	2	Spring	
●	16	553955	6	Assy, Rocker Arm	
●	17	553957	6	Screw, Adjusting	
●	18	553874	6	Nut	

● - Used on All Engines

> Change from previous revision

7.1 Intake Manifold

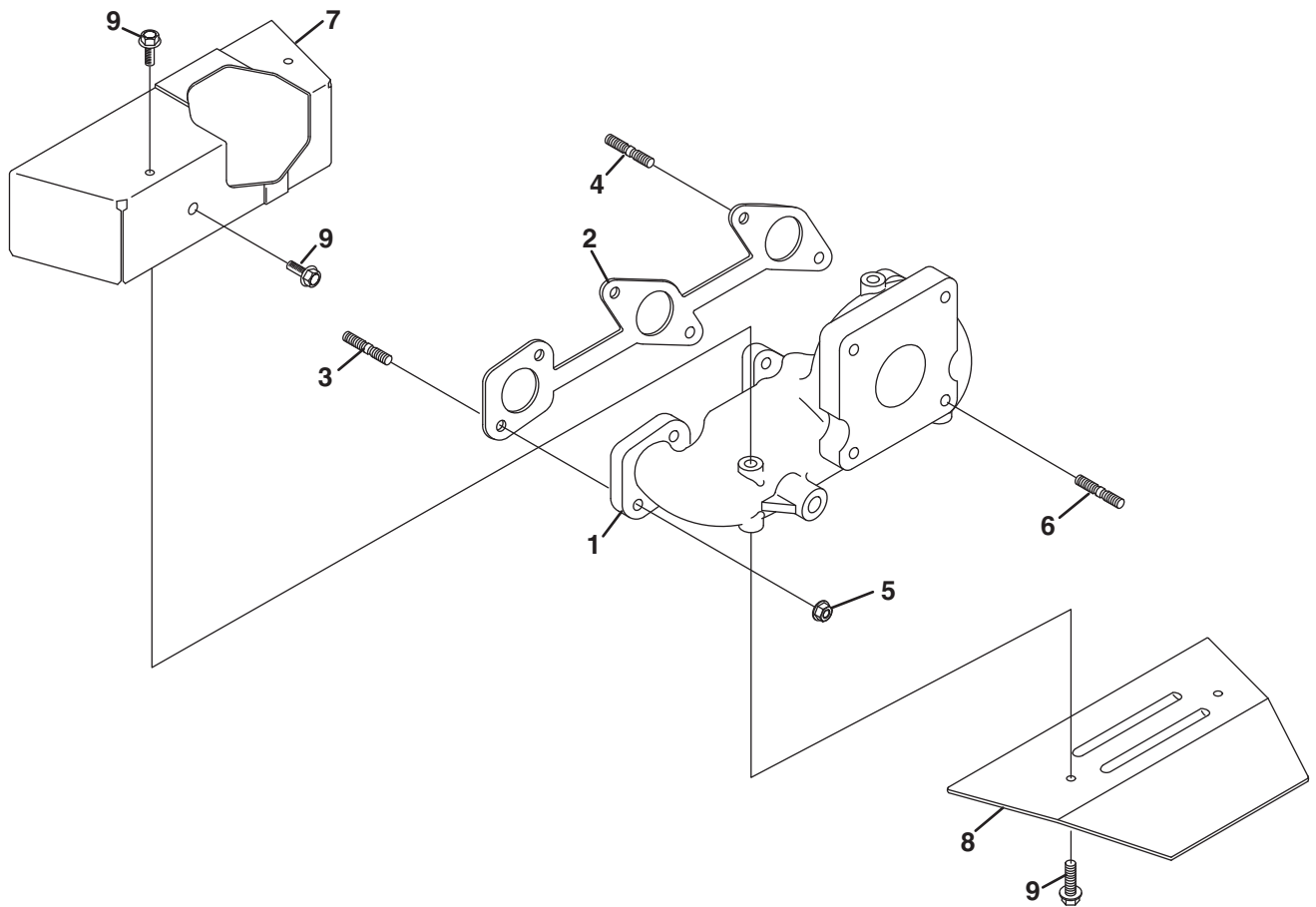


Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	4334537	1	Comp Manifold, Inlet	
●	2	552977	1	• Cap, Sealing	
●	3	4334468	1	• Pin, Pipe	
●	4	553857	3	• Pin, Straight	
●	5	4334525	1	Sensor, TMAP	
●	6	4334527	1	O-ring	
●	7	4334526	2	Bolt, M5-16 Flange	
●	8	4334553	1	Assy, Throttle Body	
●	9	4334520	2	Gasket, Air Cleaner	
●	10	4334457	2	Bolt, Stud	
●	11	550398	2	Hex. Nut	
●	12	5002002	2	Washer, Spring Lock	
●	13	4334536	1	Comp Flange, A-clean.	
●	14	4145941	1	Pipe, Breather	
●	15	554037	1	Screw, Breather	
●	16	553143	1	Packing	
●	17	4334562	3	Stay, Ignition Coil	
●	18	2810647	1	Nut, Flange	
●	19	557366	2	Bolt, Flange	
●	20	4134384	1	Bolt, Flange	
●	21	4334555	3	Stopper, Fuel Injector	
●	22	4334538	1	Gasket, In-manifold	
●	23	4334456	2	Bolt, Stud	
●	24	2810647	2	Nut, Flange	
●	25	550365	3	Bolt, Sems	
●	26	4334554	1	Rail, Fuel Injection	
●	27	550362	2	Bolt, Sems	
●	28	4334524	3	Injector	

● - Used on All Engines

> Change from previous revision

8.1 Exhaust Manifold

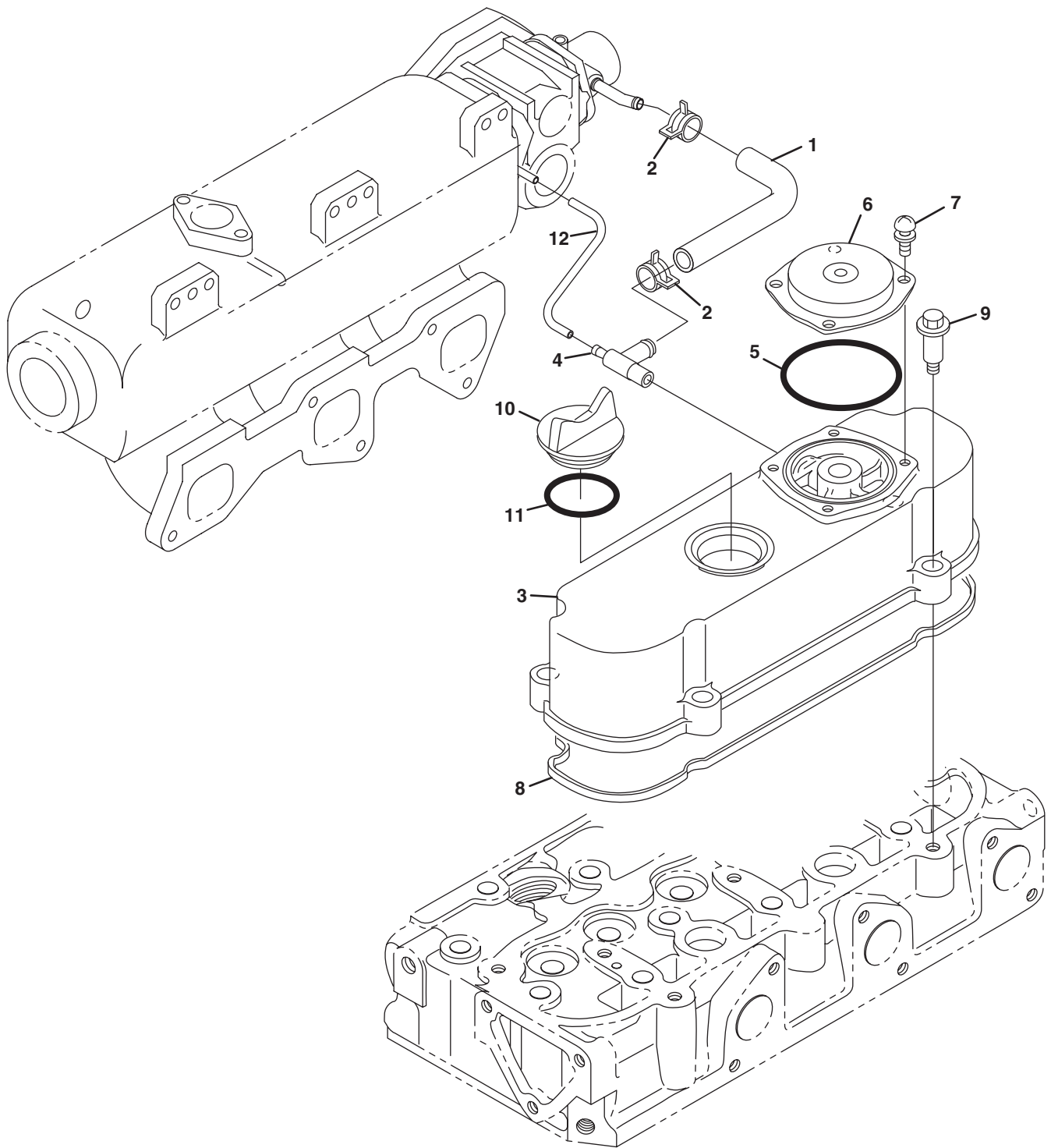


Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	4334540	1	Manifold, Exhaust	
●	2	4334506	1	Gasket, Exhaust Manifold	
●	3	4334564	3	Bolt, Stud	
●	4	4334564	3	Bolt, Stud	
●	5	5001985	6	Nut, Ubs	
●	6	4297134	4	Bolt, Stud	
●	7	4334541	1	Cover, Upper Exhaust	
●	8	4334542	1	Cover, Lower Exhaust	
●	9	4334454	5	Bolt	

● - Used on All Engines

> Change from previous revision

9.1 Head Cover

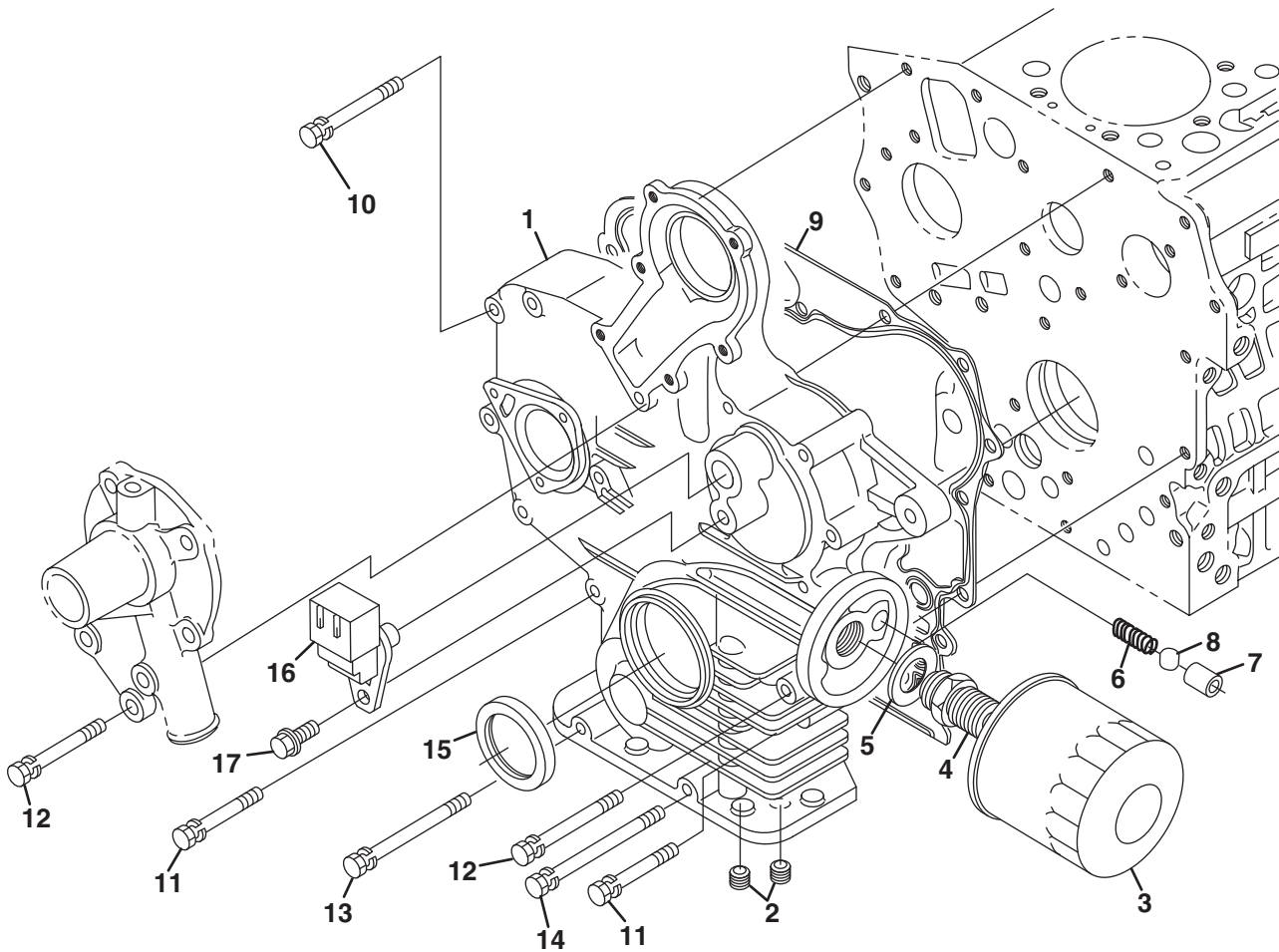


Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	4334535	1	Tube, Breather	
●	2	2501011	2	Band, Pipe	
●	3	4334544	1	Assy Cover, Cylinder Head	
●	4	4334532	1	• Joint	
●	5	4177232	1	• O Ring, Breather	
●	6	4318312	1	• Cover, Breather	
●	7	550400	4	• Screw, Sems Pan Head	
●	8	4334545	1	• Gasket, Head Cover	
●	9	4134209	4	Bolt	
●	10	4145944	1	Plug, Oil Filler	
●	11	4306378	1	O Ring	

● - Used on All Engines

> Change from previous revision

10.1 Gear Case

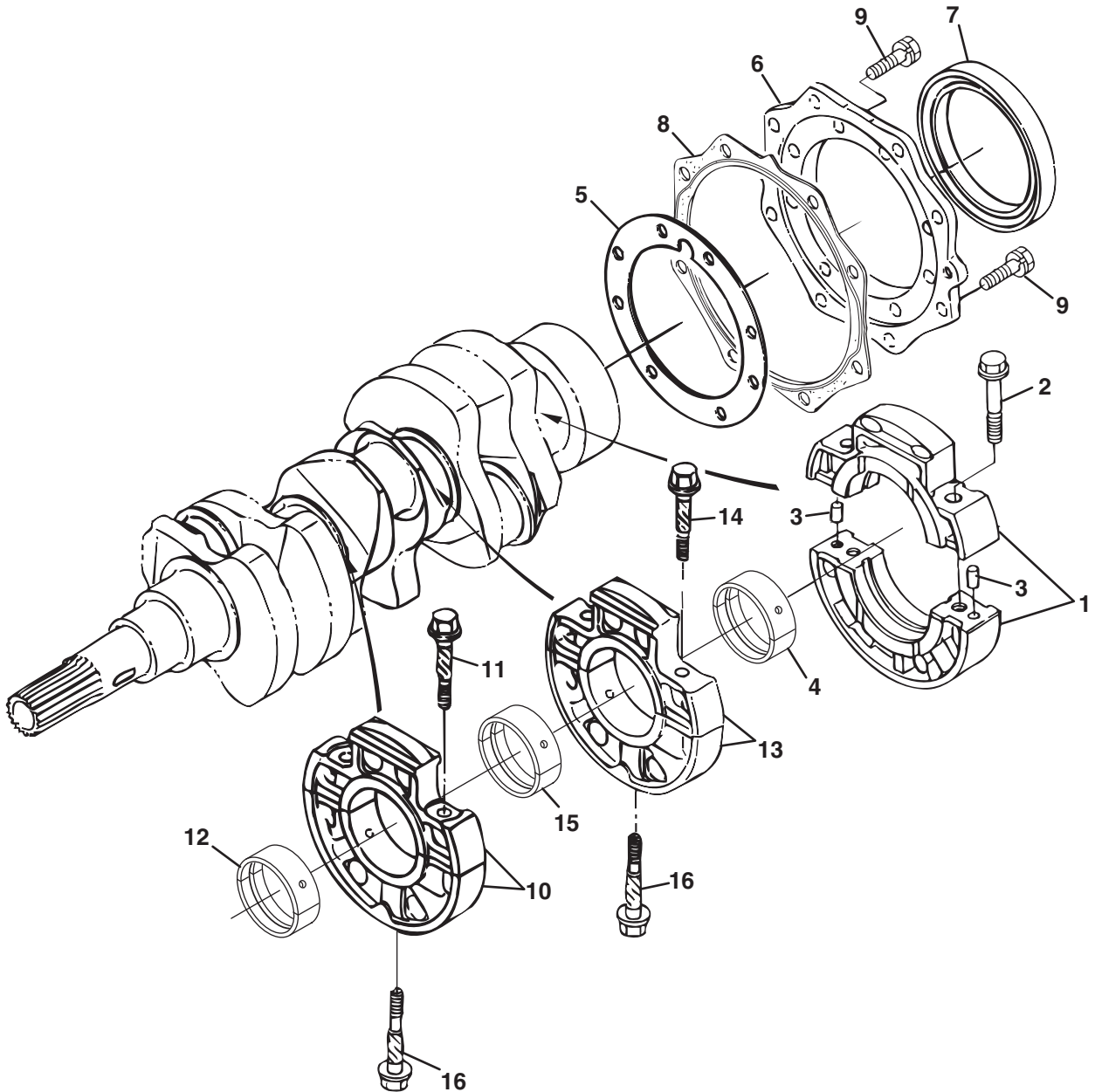


Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	4334534	1	Comp. Case, Gear	
●	2	552951	2	• Plug	
●	3	5002644	1	Filter(Cartridge, Oil)	
●	4	2500892	1	Joint, Pipe	
●	5	554107	1	Washer, Plain	
●	6	5001873	1	Spring	
●	7	554016	1	Seat, Valve	
●	8	553862	1	Ball	
●	9	4334505	1	Gasket(Case, Gear)	
●	10	553842	9	Bolt, Sems	
●	11	554094	3	Bolt	
●	12	2501021	1	Bolt, Sems	
●	13	5003604	1	Bolt, Sems	
●	14	4334453	1	Bolt, Sems	
●	15	557528	1	Seal, Oil	
●	16	4334559	1	Sensor, Cam	
●	17	557366	1	Bolt, Flange	

● - Used on All Engines

> Change from previous revision

11.1 Main Bearing Case

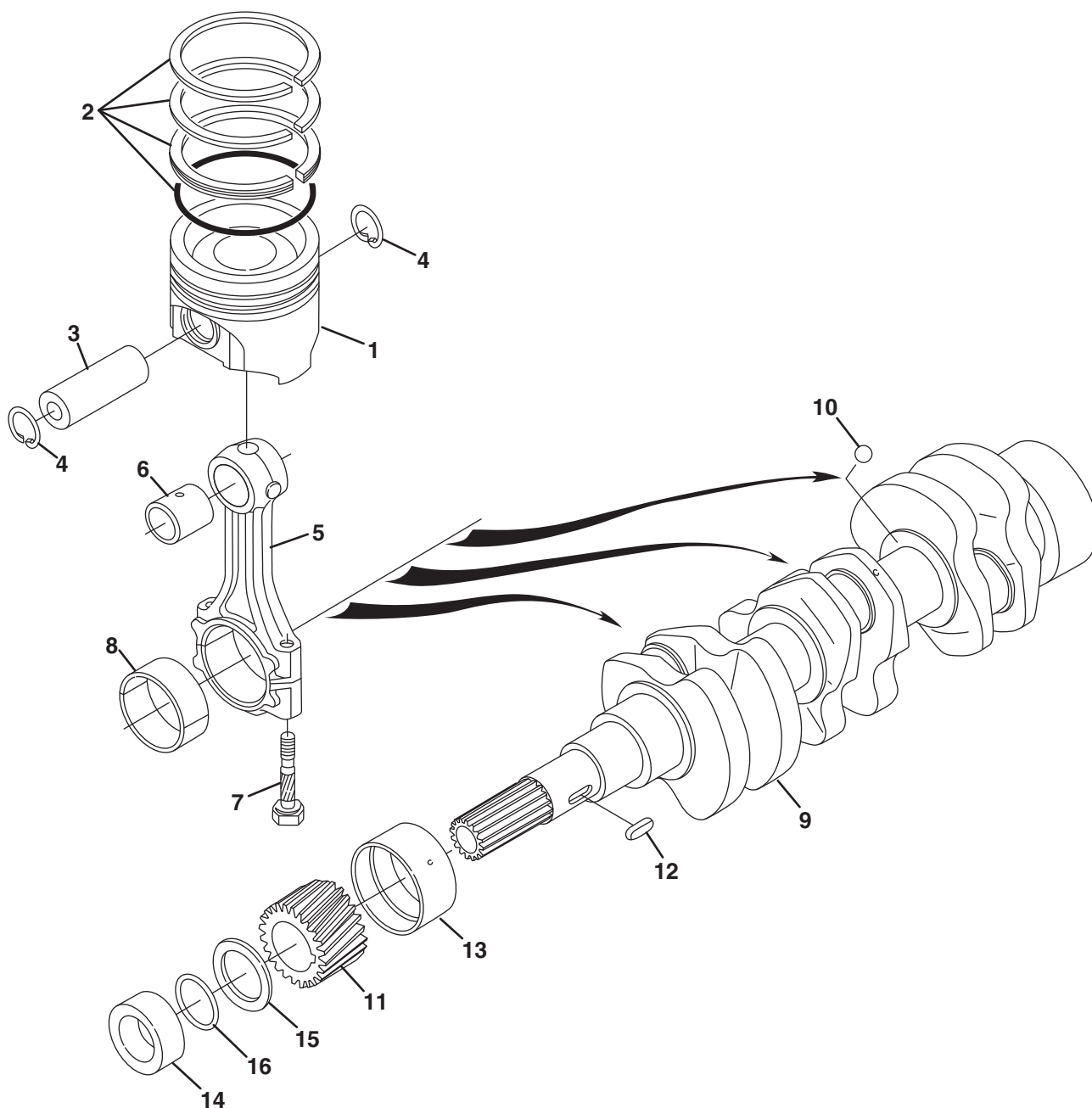


	Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
	●	1	4306886	1	Bearing Case, Main	
	●	2	4136245	2	• Bolt, Flange	
▼	●	3	4306887	2	• Pin, Straight	
■	●	3	4334495	1	• Metal, Crankshaft 2	STD / Set
◆	●	3	4334499	1	Metal, Crankshaft 2	-0.20 mm / Set
	●	4	4334501	1	Metal, Crankshaft 2	-0.40 mm / Set
	●	5	5001884	1	Gasket, Bearing Case	
	●	6	553942	1	Cover, Bearing Case	
	●	7	4209375	1	Seal, Oil	
	●	8	5001422	1	Gasket, Case Cover	
	●	9	553840	16	Bolt, Sems	
	●	10	4334503	1	Bearing Case, Main 1	
	●	11	4334491	2	• Bolt(Case, Brg)	
▼	●	12	4334496	1	• Metal, Crankshaft 3	STD / Set
■	●	12	4334500	1	Metal, Crankshaft 3	-0.20 mm / Set
◆	●	12	4334502	1	Metal, Crankshaft 3	-0.40 mm / Set
	●	13	4334504	1	Bearing Case, Main 2	
	●	14	4334491	2	• Bolt(Case, Brg)	
▼	●	15	4334496	1	• Metal, Crankshaft 3	STD / Set
■	●	15	4334500	1	Metal, Crankshaft 3	-0.20 mm / Set
◆	●	15	4334502	1	Metal, Crankshaft 3	-0.40 mm / Set
	●	16	557536	2	Bolt, Bearing Case	
▼	Included in STD Metal Kit 4334509, See 12.1					
■	Included in -0.20/+0.20 Metal Kit 4334510, See 12.1					
◆	Included in -0.40/+0.40 Metal Kit 4334511, See 12.1					

● - Used on All Engines

> Change from previous revision

12.1 Pistons and Crankshaft

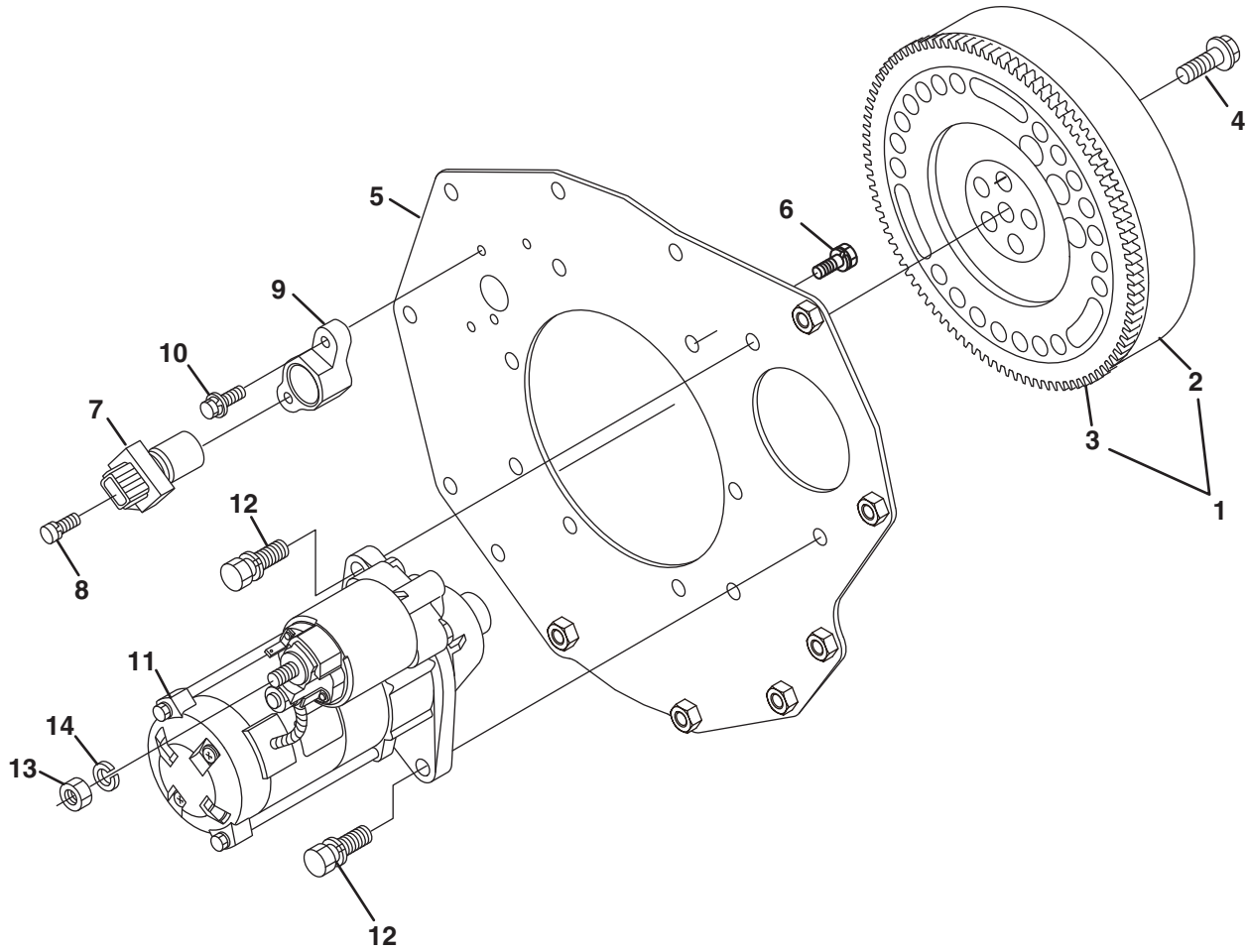


Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes	
❖	●	1	4334530	3	Piston	STD
★	●	1	4334531	3	Piston	+0.50 mm
❖	●	2	4334549	3	Assembly, Piston Ring	STD
★	●	2	4334550	3	Assembly, Piston Ring	+0.50 mm
❖★	●	3	4145884	3	Pin, Piston	
❖★	●	4	550597	6	Circlip, Internal	
	●	5	5001902	3	Assembly, Connecting Rod	
❖★	●	6	5001903	3	• Bush, Piston Pin	
	●	7	553974	6	• Bolt, Connecting Rod	
▼	●	8	553975	3	• Metal, Crankpin	STD / Set
■	●	8	5001905		Metal, Crankpin	-0.20 mm / Set
◆	●	8	5001906		Metal, Crankpin	-0.40 mm / Set
	●	9	4334508	1	Crankshaft, Comp	
	●	10	5001908	3	• Ball	
	●	11	554007	1	Gear, Crank	
	●	12	550428	1	Key, Feather	
▼	●	13	4334494	1	Metal, Crankshaft	STD
■	●	13	4334497	1	Metal, Crankshaft	-0.20 mm
◆	●	13	4334498	1	Metal, Crankshaft	-0.40 mm
	●	14	553978	1	Collar, Crankshaft	
	●	15	557553	1	Slinger, Oil	
	●	16	4145665	1	O Ring	
▼	Included in STD Metal Kit 4334509					
■	Included in -0.20/+0.20 Metal Kit 4334510					
◆	Included in -0.40/+0.40 Metal Kit 4334511					
❖	Included in STD Piston Kit 4334551					
★	Included in +0.50 mm Piston Kit 4334552					

● - Used on All Engines

> Change from previous revision

13.1 Flywheel and Starter

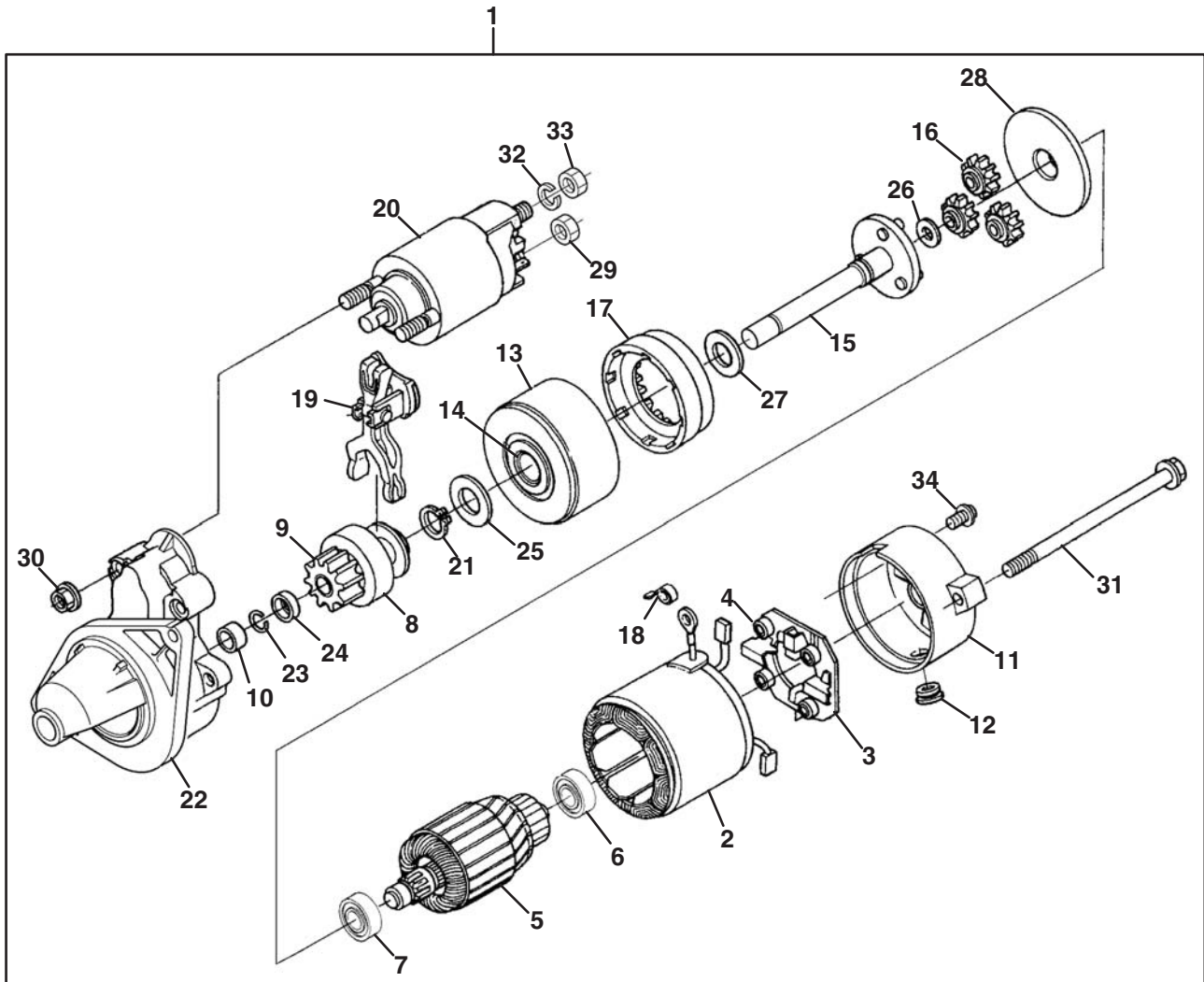


Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	4334570	1	Flywheel, Comp	
●	2	4334571	1	• Flywheel	
●	3	4165645	1	• Gear, Ring	
●	4	550823		Bolt, Flywheel	
●	5	4334569	1	Plate, Rear End	
●	6	4334483	10	Bolt, Sems	
●	7	4334519	1	Assy Sensor, Stick	
●	8	4334458	1	Bolt, Flange	
●	9	4334560	1	Holder, Sensor	
●	10	5003481	1	Bolt, Flange	
●	11	4334514	1	Assy Starter	
●	12	2500960	2	Bolt, Sems	
●	13	550398	1	Hex. Nut	
●	14	5002002	1	Washer, Spring Lock	

● - Used on All Engines

> Change from previous revision

14.1 Starter

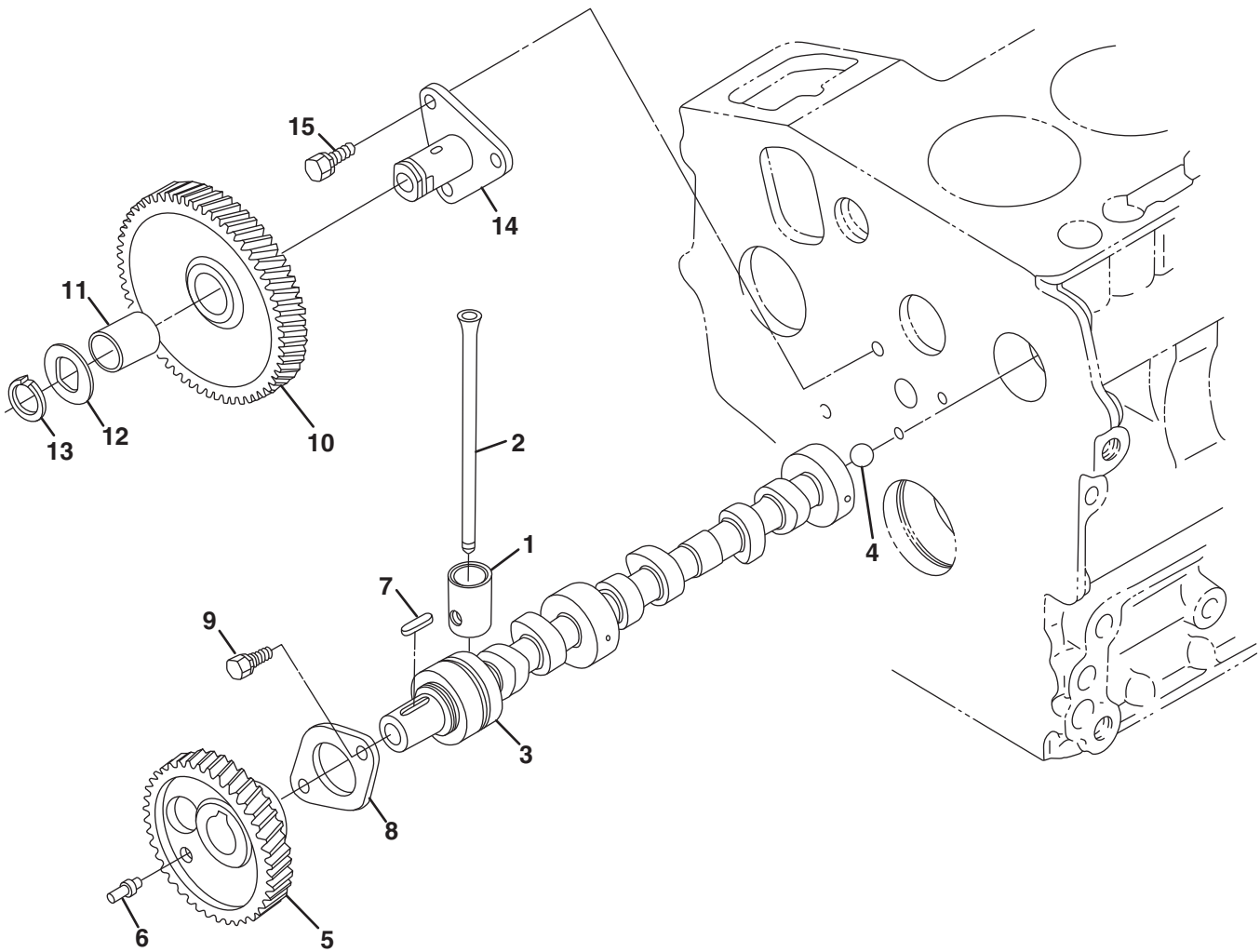


Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	4334514	1	Assy Starter	
●	2	4334516	1	• Assy Yoke, Starter	
●	3	4334475	1	• Assy Holder	
●	4	4334476	4	• • Spring, Brush	
●	5	4334517	1	• Assy Armature	
●	6	5001205	1	• • Bearing, Ball	
●	7	5001204	1	• • Bearing, Ball	
●	8	4334573	1	• Assy Clutch, Starter	
●	9	5001307	1	• • Gear, Pinion	
●	10	4334518	1	• Bearing	
●	11	4334574	1	• Assy Frame	
●	12	4334465	1	• • Cover	
●	13	4334477	1	• Bearing, Sub-assy	
●	14	4334471	1	• • Bearing, Oilless	
●	15	4334575	1	• Assy Shaft, Starter	
●	16	4334473	3	• Gear	
●	17	4334474	1	• Gear	
●	18	553277	12	• Spring, Brush	
●	19	4334470	1	• Lever	
●	20	4334463	1	• Assy Switch, Magnetic	
●	21	4334472	1	• Ring, Snap	
●	22	4334515	1	• Assy Housing, Starter	
●	23	4334464	1	• Ring, Snap	
●	24	4334469	1	• Collar	
●	25	4334478	1	• Washer, Plain	
●	26	4334479	1	• Washer, Plain	
●	27	4334480	1	• Washer, Plain	
●	28	4334481	1	• Plate	
●	29	557909	1	• Nut, Hexagon	
●	30	550458	2	• Nut	
●	31	557907	2	• Bolt, Through	
●	32	557911	1	• Washer, Spring	
●	33	2810960	1	• Nut, Hexagon	
●	34	4334576	2	• Screw	

● - Used on All Engines

> Change from previous revision

15.1 Camshaft

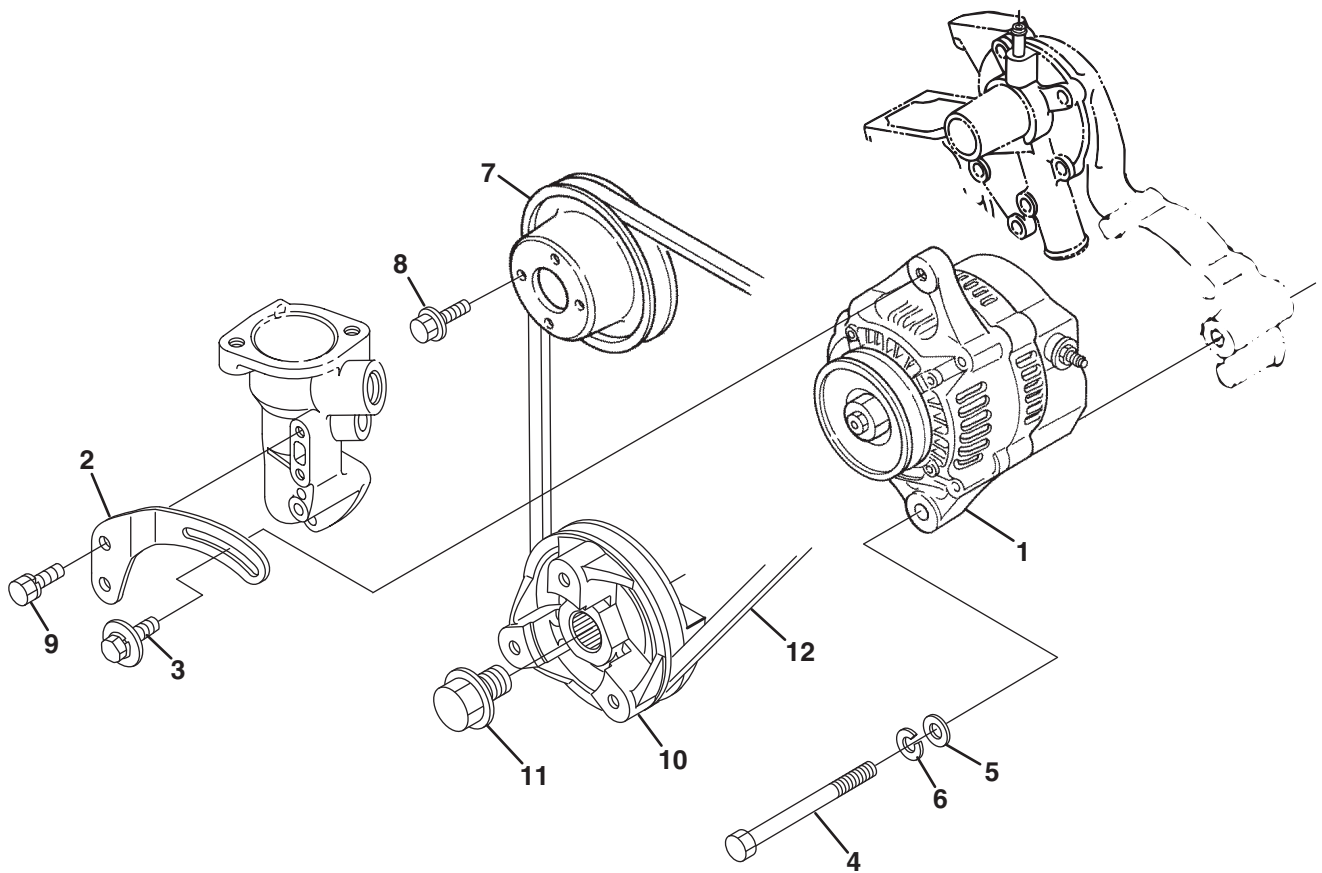


Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	5001889	6	Tappet	
●	2	5001890	6	Rod, Push	
●	3	4334546	1	Assembly, Camshaft	
●	4	2500953	1	• Ball 1/4	
●	5	4334547	1	• Comp. Gear, Cam	
●	6	4334548	2	• Pin, Cam Gear	
●	7	553860	1	• Feather Key	
●	8	553996	1	• Stopper, Camshaft	
●	9	550360	2	Bolt, Sems	
●		5001893	1	Assembly, Idle Gear	
●	10	554214	1	• Comp. Gear, Idle	
●	11	5001895	1	• • Bush	
●	12	554218	1	• Collar, Idle Gear	
●	13	554216	1	• Ring, Snap	
●	14	554215	1	• Shaft, Idle Gear	
●	15	4138249	3	Bolt, Flange	

● - Used on All Engines

> Change from previous revision

16.1 Alternator and Pulleys

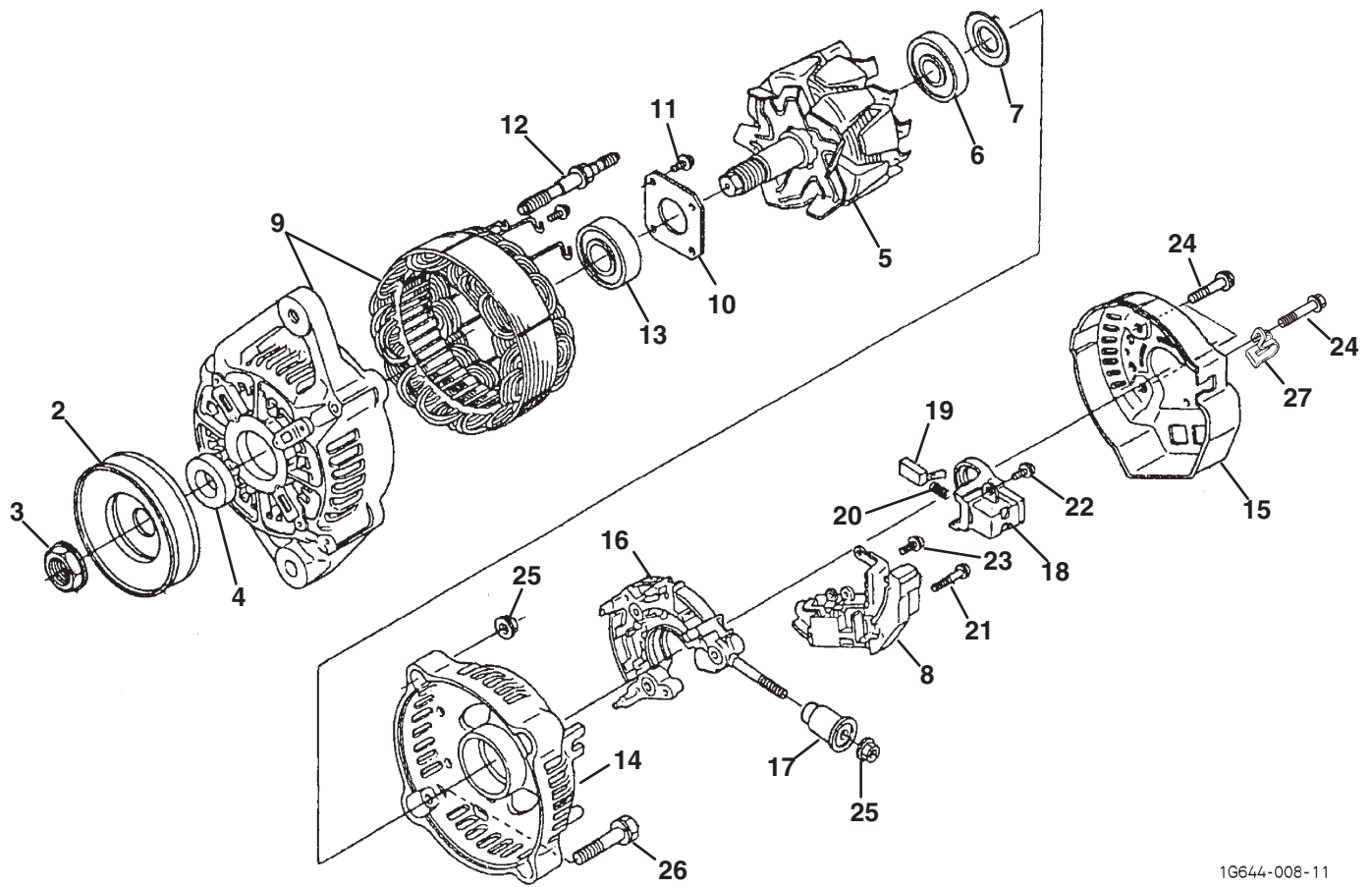


Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	4183623	1	Assy Alternator	12V 60A
●	2	4334490	1	Stay, Alternator	
●	3	4209353	1	Bolt	
●	4	4334455	1	Hex. Bolt	
●	5	4297105	1	Washer, Plain	
●	6	5002002	1	Washer, Spring Lock	
●	7	554091	1	Pulley, Fan	
●	8	557943	4	Bolt, Flange	
●	9	550362	2	Bolt, Sems	
●	10	4145876	1	Pulley, Fan Drive	
●	11	557562	1	Bolt	
●	12	2811450	1	V Belt	

● - Used on All Engines

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17.1 Alternator



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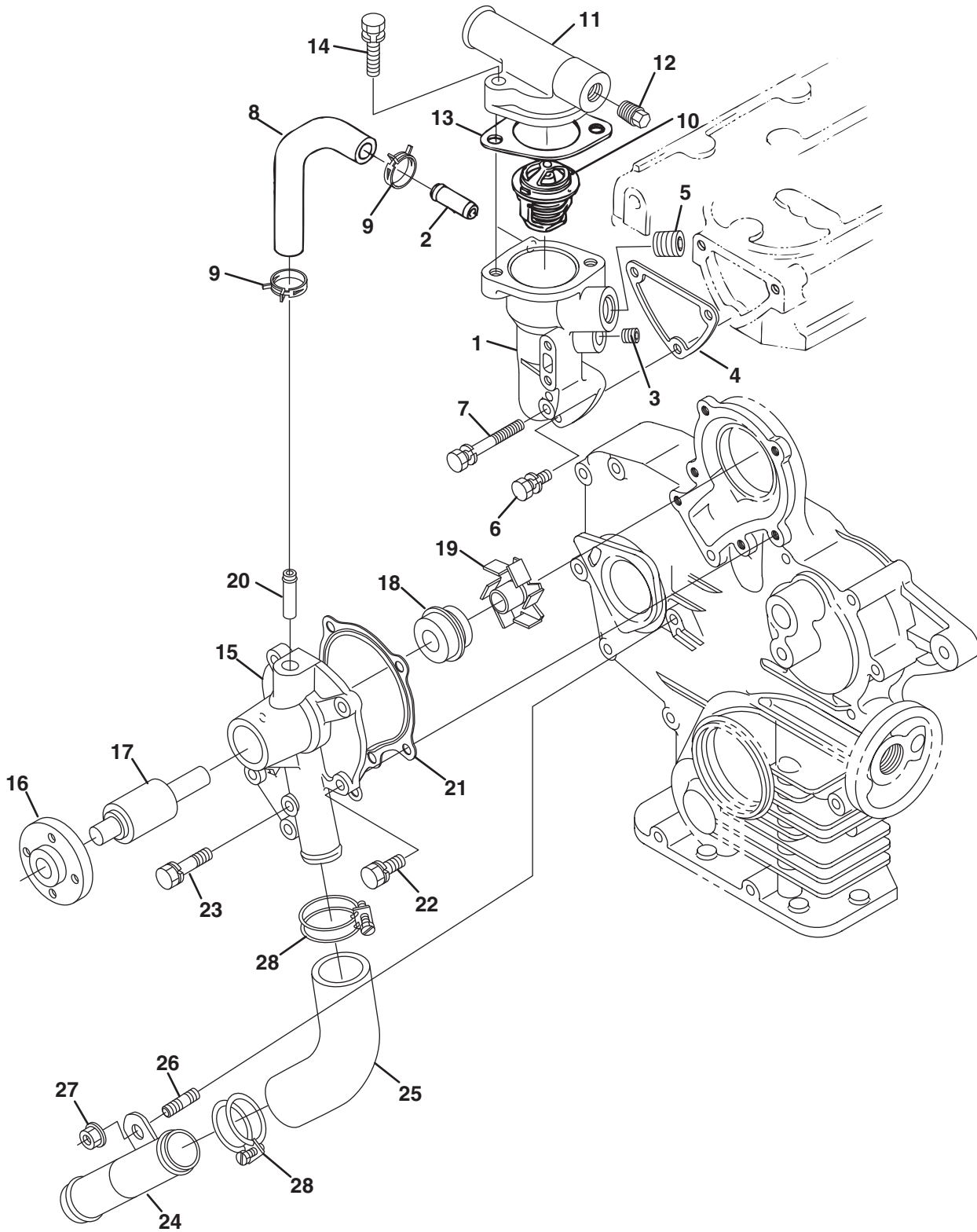
KUBOTA WG972-G-E4

Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	4183623	1	Assy Alternator	
●	2	557947	1	• Pulley, Dynamo	
●	3	557948	1	• Nut	
●	4	557949	1	• Collar	
●	5	4183627	1	• Rotor	
●	6	557951	1	• • Cover, Bearing	
●	7	4145838	1	• • Bearing, Ball	
●	8	4183630	1	• Assy Regulator	
●	9	4183626	1	• Frame, Drive End	
●	10	5001210	1	• • Plate, Retainer	
●	11	557956	4	• • Screw, Round Head	
●	12	557957	2	• • Bolt, Through	
●	13	4145839	1	• • Bearing, Ball	
●	14	4183628	1	• Frame, End	
●	15	4183631	1	• Cover, End	
●	16	4183629	1	• Holder	
●	17	4134337	1	• Bush, Insulation	
●	18	4145837	1	• Holder, Brush	
●	19	557964	2	• • Brush	
●	20	557965	2	• • Spring, Brush	
●	21	557966	2	• Screw, Round Head	
●	22	557967	6	• Screw, Round Head	
●	23	557968	1	• Screw, Round Head	
●	24	557969	3	• Bolt	
●	25	557970	2	• Nut	
●	26	557971	2	• Bolt	
●	27	4134341	1	• Clamp, Cord	

● - Used on All Engines

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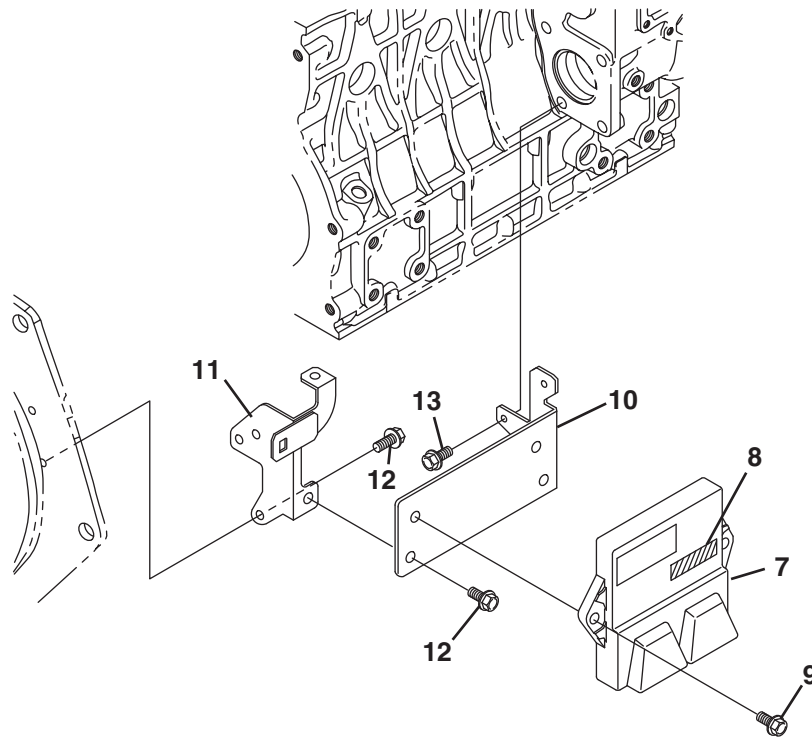
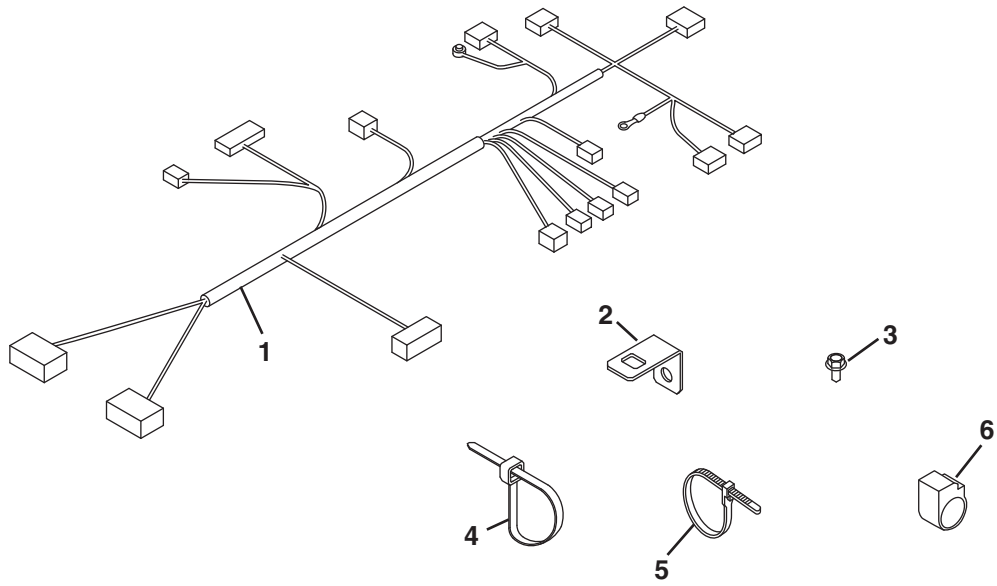
18.1 Water Flange and Pump



Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	4334484	1	Comp Flange, Water	
●	2	4134380	1	• Pipe, Water Return	
●	3	554115	1	Plug	
●	4	554082	1	Gasket, Water Flange	
●	5	4198241	1	Plug	
●	6	550362	2	Bolt, Sems	
●	7	553842	1	Bolt, Sems	
●	8	5001959	1	Pipe, Water Return	
●	9	4306396	2	Clamp, Hose	
●	10	556412	1	Assembly, Thermostat	
●	11	4334486	1	Assembly, Thermostat Cover	
●	12	4334488	1	Plug	
●	13	4134370	1	Gasket, Thermostat	
●	14	594334	2	Bolt, Sems	
●	15	4334485	1	Assembly, Water Pump	
●	16	557567		• Flange, Water Pump	
●	17	557568	1	• Bearing	
●	18	4146068	1	• Assembly, Mechanical Seal	
●	19	N/S	1	• Impeller	
●	20	557571	1	• Pipe, Water Return	
●	21	5001962	1	Gasket, Water Pump	
●	22	553840	4	Bolt, Sems	
●	23	5001963	1	Bolt, Sems	
●	24	2811451	1	Pipe, Water	
●	25	2811452	1	Hose, Water	
●	26	554100	1	Stud	
●	27	2810647	1	Nut, Flange	
●	28	554083	2	Band, Pipe	

● - Used on All Engines

> Change from previous revision

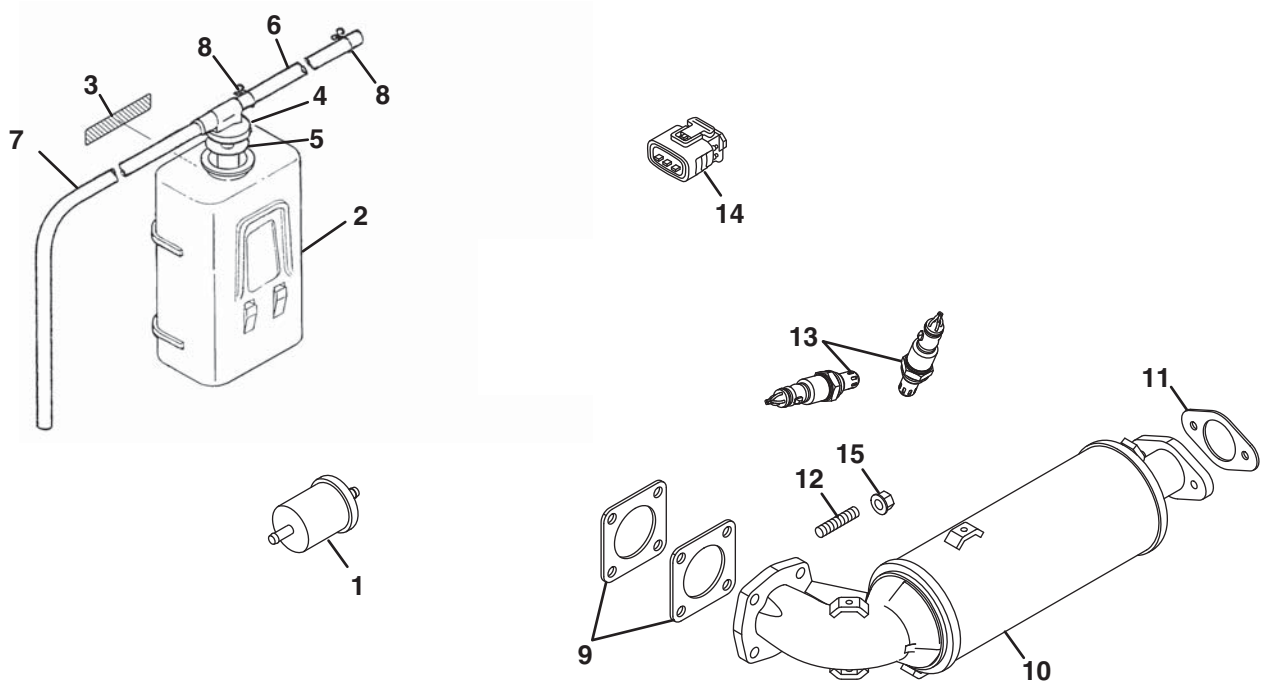


Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	4334572	1	Harness, Wire(Ecu)	
●	2	4334578	1	Stay, Harness Boom	
●	3	4198160	1	Bolt, Flange	
●	4	4334512	1	Band, Cord	
●	5	4334513	2	Band, Cord	
●	6	4334577	1	Clamp	
●	7	4326357	1	Ecu, Assy	
●	8	4334563	1	Label	
●	9	5003481	2	Bolt, Flange	
●	10	4334557	1	Stay(Ecu)	
●	11	4334558	1	Stay, Ecu	
●	12	4138249	3	Bolt, Flange	
●	13	2811976	2	Bolt, Flange	

● - Used on All Engines

> Change from previous revision

20.1 Miscellaneous



Engine	Item	Part No.	Qty.	Description	Serial Numbers/Notes
●	1	5001182	1	Assy Filter, Fuel	
●	2	553926	1	Assy Tank, Reserve	
●		5001207	1	• Body, Tank	
●	3	4145735	1	• Label, Caution	
●	4	2500814	1	• Cap	
●	5	2500815	1	• Gasket	
●	6	553913	1	• Pipe, Water Over Flow	
●	7	553929	1	• Pipe, Water Over Flow	
●	8	553914	2	• Clip, Pipe	
●	9	4308957	2	Gasket(Muffler)	
●	10	4308961	1	Muffler, Comp	
●	11	4308965	1	Gasket(Muffler)	
●	12	4297134	6	Bolt, Stud	
●	13	4308963	2	Sensor(O2)	
●	14	4165643	1	Assy Connector, 2	
●	15	4334459	10	Nut, UBS	

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